

## ภาคผนวก ค

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### รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม



THAI ROONG RUANG  
SUGAR GROUP  
กลุ่มน้ำตาลไทยรุ่งเรือง





Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 1 of 12

## TEST REPORT

**Analysis No.** : R23-3014  
**Received Date** : 21/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017

**Report Date** : 12/10/23  
**Analysis Date** : 20-25/09/23  
**Job No.** : S660153/Sep  
**Sampling By** : TET  
**Type of Sample** : Stack

### Sampling Conditions :

| Item | Description                                     | Unit               | Result                           |
|------|---|--------------------|----------------------------------|
|      |   |                    | Normal Operation                 |
|      |   |                    | 2309-AS0697                      |
|      |   |                    | ปล่องหม้อไอน้ำของโครงการ (Inlet) |
| 1    | Sampling Date                                   | -                  | 20/09/23                         |
| 2    | Stack Diameter                                  | m                  | 6.25 x 2.10                      |
| 3    | Temperature <sup>(1)</sup>                      | °C                 | 102                              |
| 4    | Stack Gas Velocity <sup>(1)</sup>               | m/s                | 18.5                             |
| 5    | Flow Rate <sup>(1)</sup>                        | m <sup>3</sup> /s  | 242.8                            |
| 6    | Flow Rate <sup>(2)</sup>                        | Nm <sup>3</sup> /s | 170.3                            |
| 7    | Moisture Content <sup>(1)</sup>                 | %                  | 10.34                            |
| 8    | O <sub>2</sub> Rate <sup>(1)</sup> , dry basis  | %                  | 9.8                              |
| 9    | CO <sub>2</sub> Rate <sup>(1)</sup> , dry basis | %                  | 10.4                             |
| 10   | Absolute Stack Pressure <sup>(1)</sup>          | mm.Hg              | 748.3                            |

| Parameter   | Unit               | Method   | Result                           | Analysis Date |
|---|--------------------|--|----------------------------------|---------------|
|   |                    |  | Normal Operation                 |               |
|   |                    |  | 2309-AS0697                      |               |
|   |                    |  | ปล่องหม้อไอน้ำของโครงการ (Inlet) |               |
| Particulate <sup>(2)</sup>                        | mg/Nm <sup>3</sup> | Isokinetic, Gravimetric Method (US.EPA Method 5, Dec 07, 2020) | 99.0                             | 22-25/09/23   |
| NO <sub>x</sub> as NO <sub>2</sub> <sup>(2)</sup> | ppm                | Instrument Analyzer Method (US.EPA Method 7E, Oct 07, 2020)    | 86.00                            | 20/09/23      |
| SO <sub>2</sub> <sup>(2)</sup>                    | ppm                | Instrument Analyzer Method (US.EPA Method 6C, Aug 2, 2017)     | 3.50                             | 20/09/23      |
| CO <sup>(2)</sup>                                 | ppm                | NDIR Method (US.EPA Method 10, Aug 02, 2017)                   | 271                              | 20/09/23      |

**Remarks** : ปล่องหม้อไอน้ำของโครงการ (Inlet) = 47P 0726661 UTM 1710514

(1) Flue conditions

(2) The concentrations of air emissions and emission rate are based on the reference condition of 25 °C at 1 atm or 760 mm.Hg and dry basis  
 Source ; Biomass 60 Ton/hr., อัตราการผลิตไอน้ำ 132 Ton/hr., อัตราการผลิตไฟฟ้า 8 MW

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

12/10/23

Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

12/10/23



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**Received Date** : 21/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017

**Report Date** : 12/10/23  
**Analysis Date** : 20-25/09/23  
**Job No.** : S660153/Sep  
**Sampling By** : TET  
**Type of Sample** : Stack

### Sampling Conditions :

| Item | Description                                     | Unit               | Result                            |
|------|---|--------------------|-----------------------------------|
|      |   |                    | Normal Operation                  |
|      |   |                    | 2309-AS0699                       |
|      |   |                    | ปล่องหม้อไอน้ำของโครงการ (Outlet) |
| 1    | Sampling Date                                   | -                  | 20/09/23                          |
| 2    | Stack Diameter                                  | m                  | Ø 4.80                            |
| 3    | Temperature <sup>(1)</sup>                      | °C                 | 96                                |
| 4    | Stack Gas Velocity <sup>(1)</sup>               | m/s                | 7.7                               |
| 5    | Flow Rate <sup>(1)</sup>                        | m <sup>3</sup> /s  | 139.4                             |
| 6    | Flow Rate <sup>(2)</sup>                        | Nm <sup>3</sup> /s | 98.5                              |
| 7    | Moisture Content <sup>(1)</sup>                 | %                  | 11.62                             |
| 8    | O <sub>2</sub> Rate <sup>(1)</sup> , dry basis  | %                  | 10.8                              |
| 9    | CO <sub>2</sub> Rate <sup>(1)</sup> , dry basis | %                  | 9.2                               |
| 10   | Absolute Stack Pressure <sup>(1)</sup>          | mm.Hg              | 752.5                             |

| Parameter                          | Unit               | Method  | Result                            |              |                       | Standard<br>(With Combustion) |             |                    | Analysis<br>Date |
|------------------------------------|--------------------|---|-----------------------------------|--------------|-----------------------|-------------------------------|-------------|--------------------|------------------|
|                                    |                    |   | Normal Operation                  |              |                       |                               |             |                    |                  |
|                                    |                    |   | 2309-AS0699                       |              |                       |                               |             |                    |                  |
|                                    |                    |   | ปล่องหม้อไอน้ำของโครงการ (Outlet) |              |                       | (A)                           |             | (B)                |                  |
| Particulate                        | mg/Nm <sup>3</sup> | Isokinetic, Gravimetric Method<br>(US.EPA Method 5, Dec 07, 2020) | 6.0 <sup>(2)</sup>                | 0.59 (g/s)   | 8.3 <sup>(3)</sup>    | 97.9                          | 10.61 (g/s) | 120                | 22-25/09/23      |
| NO <sub>3</sub> as NO <sub>2</sub> | ppm                | Instrument Analyzer Method<br>(US.EPA Method 7E, Oct 07, 2020)    | 74.00 <sup>(2)</sup>              | 13.71 (g/s)  | 101.84 <sup>(3)</sup> | 177.5                         | 36.18 (g/s) | 200                | 20/09/23         |
| SO <sub>2</sub>                    | ppm                | Instrument Analyzer Method<br>(US.EPA Method 6C, Aug 2, 2017)     | < 0.10 <sup>(2)</sup>             | < 0.03 (g/s) | < 0.10 <sup>(3)</sup> | 49                            | 19.89 (g/s) | 60                 | 20/09/23         |
| CO                                 | ppm                | NDIR Method<br>(US.EPA Method 10, Aug 02, 2017)                   | 231 <sup>(2)</sup>                | 26.06 (g/s)  | 318 <sup>(3)</sup>    | -                             | -           | 690 <sup>(C)</sup> | 20/09/23         |
| Opacity <sup>(4)</sup>             | %                  | Ringelmann's Method   | 5.16                              | -            | 5.16                  | -                             | -           | 10 <sup>(D)</sup>  | 20/09/23         |

**Remarks** : ปล่องหม้อไอน้ำของโครงการ (Outlet) = 47P 0726668 UTM 1710549

- (1) Flue conditions
- (2) The concentrations of air emissions and emission rate are based on the reference condition of 25 °C at 1 atm or 760 mm.Hg and dry basis, (closed system)
- (3) The concentrations of air emissions are based on the reference condition of 25 °C at 1 atm or 760 mm.Hg, excess oxygen of 7 % and dry basis, (closed system)
- (4) On site measurement

**Standard** (A) According to Environmental Impact Assessment of Thai Roong Ruang Electric Generating Co., Ltd. (2014) (B.E. 2557)

(B) Notification of the Ministry of Industry (2004) (B.E. 2547) and Notification of the Natural Resources and Environment (2010) (B.E. 2553) : (New Power Plant)

(C) Reference to Notification of the Ministry of Industry (2006) (B.E. 2549) and Notification of the Ministry of Natural Resources and Environment (2006) (B.E. 2549)

(D) Notification of the Ministry of Industry (2006) (B.E. 2549) and Notification of the Ministry of Natural Resources and Environment (2005) (B.E. 2548), (opacity)

Source : Biomass 60 Ton/hr., อัตราการผลิตไอน้ำ 132 Ton/hr., อัตราการเผาถ่าน 18 MW

Reviewed by

Ms. Wareerut Prachumdaeng  
 Chief of Laboratory  
 12/10/23

Approved by

Mrs. Pornpip Pethshee  
 Laboratory Manager  
 12/10/23



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## TEST REPORT

**Analysis No.** : R23-3014/DIW  
**Received Date** : 21/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017

**Report Date** : 12/10/23  
**Analysis Date** : 20-25/09/23  
**Job No.** : S660153/Sep  
**Sampling By** : Mr. Suchart Sriboon  
**Registration No.** : ๖-236-๖-0011  
**Type of Sample** : Stack

### Sampling Conditions :

| Item | Description                                     | Unit               | Result                            |
|------|---|--------------------|-----------------------------------|
|      |   |                    | Normal Operation                  |
|      |   |                    | 2309-AS0699                       |
|      |   |                    | ปล่องหม้อไอน้ำของโครงการ (Outlet) |
| 1    | Sampling Date                                   | -                  | 20/09/23                          |
| 2    | Stack Diameter                                  | m                  | Ø 4.80                            |
| 3    | Temperature <sup>(1)</sup>                      | °C                 | 96                                |
| 4    | Stack Gas Velocity <sup>(1)</sup>               | m/s                | 7.7                               |
| 5    | Flow Rate <sup>(1)</sup>                        | m <sup>3</sup> /s  | 139.4                             |
| 6    | Flow Rate <sup>(2)</sup>                        | Nm <sup>3</sup> /s | 98.5                              |
| 7    | Moisture Content <sup>(1)</sup>                 | %                  | 11.62                             |
| 8    | O <sub>2</sub> Rate <sup>(1)</sup> , dry basis  | %                  | 10.8                              |
| 9    | CO <sub>2</sub> Rate <sup>(1)</sup> , dry basis | %                  | 9.2                               |
| 10   | Absolute Stack Pressure <sup>(1)</sup>          | mm.Hg              | 752.5                             |

| Parameter                          | Unit               | Method   | Result                           |                       | Standard <sup>(A)</sup> | Analysis Date |
|------------------------------------|--------------------|--|----------------------------------|-----------------------|-------------------------|---------------|
|                                    |                    |  | Normal Operation                 |                       |                         |               |
|                                    |                    |  | 2309-AS0699                      |                       | (With Combustion)       |               |
|                                    |                    |  | ปล่องหม้อไอน้ำของโครงการ(Outlet) |                       |                         |               |
| Particulate                        | mg/Nm <sup>3</sup> | Isokinetic, Gravimetric Method (US.EPA Method 5, Dec 07, 2020) | 6.0 <sup>(2)</sup>               | 8.3 <sup>(3)</sup>    | 120                     | 22-25/09/23   |
| NO <sub>x</sub> as NO <sub>2</sub> | ppm                | Instrument Analyzer Method (US.EPA Method 7E, Oct 07, 2020)    | 74.00 <sup>(2)</sup>             | 101.84 <sup>(3)</sup> | 200                     | 20/09/23      |
| SO <sub>2</sub>                    | ppm                | Instrument Analyzer Method (US.EPA Method 6C, Aug 2, 2017)     | < 0.10 <sup>(2)</sup>            | < 0.10 <sup>(3)</sup> | 60                      | 20/09/23      |
| CO                                 | ppm                | NDIR Method (US.EPA Method 10, Aug 02, 2017)                   | 231 <sup>(2)</sup>               | 318 <sup>(3)</sup>    | 690 <sup>(B)</sup>      | 20/09/23      |
| Opacity <sup>(4)</sup>             | %                  | Ringelmann's Method  | 5.16                             | 5.16                  | 10 <sup>(C)</sup>       | 20/09/23      |

**Remarks** : ปล่องหม้อไอน้ำของโครงการ (Outlet) = 47P 0726668 UTM 1710549

(1) Flue conditions

(2) The concentrations of air emissions and emission rate are based on the reference condition of 25 °C at 1 atm or 760 mm.Hg and dry basis, (closed system)

(3) The concentrations of air emissions are based on the reference condition of 25 °C at 1 atm or 760 mm.Hg, excess oxygen of 7 % and dry basis, (closed system)

(4) On site measurement

**Standard** (A) Notification of the Ministry of Industry (2004) (B.E. 2547) : (New Power Plant)

(B) Reference to Notification of the Ministry of Industry (2006) (B.E. 2549)

(C) Notification of the Ministry of Industry (2006) (B.E. 2549), (opacity)

Source : Biomass 60 Ton/hr., อัตราการผลิตไอน้ำ 132 Ton/hr., อัตราการผลิตไฟฟ้า 6 MW

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

๖-236-๖-0002

12 / 10 / 23



Approved by

Mrs. Pornip Pethshee

Laboratory Manager

๖-236-๖-0003

12 / 10 / 23

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 3 of 12

## TEST REPORT

Analysis No. : R23-3014

Received Date : 21/09/23

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

โครงการ โรงไฟฟ้าชีวมวล สาขา 2

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Report Date : 12/10/23

Analysis Date : 22-25/09/23

Job No. : S660153/Sep

Sampling By : TET

Type of Sample : Stack

### Sampling Conditions :

| Item | Description                                     | Unit               | Result                           |
|------|---|--------------------|----------------------------------|
|      |   |                    | Soot Blow                        |
|      |   |                    | 2309-AS0698                      |
|      |   |                    | ปล่องหม้อไอน้ำของโครงการ (Inlet) |
| 1    | Sampling Date                                   | -                  | 20/09/23                         |
| 2    | Stack Diameter                                  | m                  | 6.25 x 2.10                      |
| 3    | Temperature <sup>(1)</sup>                      | °C                 | 103                              |
| 4    | Stack Gas Velocity <sup>(1)</sup>               | m/s                | 19.7                             |
| 5    | Flow Rate <sup>(1)</sup>                        | m <sup>3</sup> /s  | 258.6                            |
| 6    | Flow Rate <sup>(2)</sup>                        | Nm <sup>3</sup> /s | 180.0                            |
| 7    | Moisture Content <sup>(1)</sup>                 | %                  | 10.79                            |
| 8    | O <sub>2</sub> Rate <sup>(1)</sup> , dry basis  | %                  | 9.5                              |
| 9    | CO <sub>2</sub> Rate <sup>(1)</sup> , dry basis | %                  | 10.7                             |
| 10   | Absolute Stack Pressure <sup>(1)</sup>          | mm.Hg              | 748.1                            |

| Parameter                  | Unit               | Method   | Result                           | Analysis Date |
|----------------------------|--------------------|--|----------------------------------|---------------|
|                            |                    |  | Soot Blow                        |               |
|                            |                    |  | 2309-AS0698                      |               |
|                            |                    |  | ปล่องหม้อไอน้ำของโครงการ (Inlet) |               |
| Particulate <sup>(2)</sup> | mg/Nm <sup>3</sup> | Isokinetic, Gravimetric Method (US.EPA Method 5, Dec 07, 2020) | 207.1                            | 22-25/09/23   |

Remarks : ปล่องหม้อไอน้ำของโครงการ (Inlet) = 47P 0726661 UTM 1710514

(1) Flue conditions

(2) The concentrations of air emissions and emission rate are based on the reference condition of 25 °C at 1 atm or 760 mm.Hg and dry basis

Source : Biomass 60 Ton/hr., อัตราการผลิตไอน้ำ 132 Ton/hr., อัตราการผลิตไฟฟ้า 8 MW

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

12/10/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

12/10/23

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Page 4 of 12

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 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017

**Report Date** : 12/10/23  
**Analysis Date** : 22-25/09/23  
**Job No.** : S660153/Sep  
**Sampling By** : TET  
**Type of Sample** : Stack

### Sampling Conditions :

| Item | Description                                     | Unit               | Result                            |
|------|---|--------------------|-----------------------------------|
|      |   |                    | Soot Blow                         |
|      |   |                    | 2309-AS0700                       |
|      |   |                    | ปล่องหม้อไอน้ำของโครงการ (Outlet) |
| 1    | Sampling Date                                   | -                  | 20/09/23                          |
| 2    | Stack Diameter                                  | m                  | Ø 4.80                            |
| 3    | Temperature <sup>(1)</sup>                      | °C                 | 98                                |
| 4    | Stack Gas Velocity <sup>(1)</sup>               | m/s                | 9.0                               |
| 5    | Flow Rate <sup>(1)</sup>                        | m <sup>3</sup> /s  | 162.9                             |
| 6    | Flow Rate <sup>(2)</sup>                        | Nm <sup>3</sup> /s | 114.5                             |
| 7    | Moisture Content <sup>(1)</sup>                 | %                  | 11.60                             |
| 8    | O <sub>2</sub> Rate <sup>(1)</sup> , dry basis  | %                  | 11.6                              |
| 9    | CO <sub>2</sub> Rate <sup>(1)</sup> , dry basis | %                  | 9.0                               |
| 10   | Absolute Stack Pressure <sup>(1)</sup>          | mm.Hg              | 752.5                             |

| Parameter   | Unit               | Method  | Result                            |            |                    | Standard<br>(With Combustion) |             | Analysis<br>Date |             |
|-------------|--------------------|---|-----------------------------------|------------|--------------------|-------------------------------|-------------|------------------|-------------|
|             |                    |   | Soot Blow                         |            |                    |                               |             |                  |             |
|             |                    |   | 2309-AS0700                       |            |                    |                               |             |                  |             |
|             |                    |   | ปล่องหม้อไอน้ำของโครงการ (Outlet) |            |                    | (A)                           | (B)         |                  |             |
| Particulate | mg/Nm <sup>3</sup> | Isokinetic, Gravimetric Method<br>(US.EPA Method 5, Dec 07, 2020) | 6.0 <sup>(2)</sup>                | 0.69 (g/s) | 9.0 <sup>(3)</sup> | 107.3                         | 11.62 (g/s) | 120              | 22-25/09/23 |

**Remarks** : ปล่องหม้อไอน้ำของโครงการ (Outlet) = 47P 0726668 UTM 1710549

(1) Flue conditions

(2) The concentrations of air emissions and emission rate are based on the reference condition of 25 °C at 1 atm or 760 mm.Hg and dry basis, (closed system)

(3) The concentrations of air emissions are based on the reference condition of 25 °C at 1 atm or 760 mm.Hg, excess oxygen of 7 % and dry basis, (closed system)

**Standard** (A) According to Environmental Impact Assessment of Thai Roong Ruang Electric Generating Co., Ltd. (2014) (B.E. 2557)

(B) Notification of the Natural Resources and Environment (2010) (B.E. 2553) : (New Power Plant)

Source ; Biomass 60 Ton/hr., อัตราการผลิตไอน้ำ 132 Ton/hr., อัตราการผลิตไฟฟ้า 18 MW

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

12/10/23



approved by

Mrs. Pornpip Pethshee

Laboratory Manager

12/10/23

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**Received Date** : 21/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอสรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017

**Report Date** : 12/10/23  
**Analysis Date** : 22-25/09/23  
**Job No.** : S660153/Sep  
**Sampling By** : Mr. Suchart Sriboon  
**Registration No.** : ว-236-จ-0011  
**Type of Sample** : Stack

### Sampling Conditions :

| Item | Description                                     | Unit               | Result                            |  |
|------|---|--------------------|-----------------------------------|--|
|      |   |                    | Soot Blow                         |  |
|      |   |                    | 2309-AS0700                       |  |
|      |   |                    | ปล่องหม้อไอน้ำของโครงการ (Outlet) |  |
| 1    | Sampling Date                                   | -                  | 20/09/23                          |  |
| 2    | Stack Diameter                                  | m                  | Ø 4.80                            |  |
| 3    | Temperature <sup>(1)</sup>                      | °C                 | 98                                |  |
| 4    | Stack Gas Velocity <sup>(1)</sup>               | m/s                | 9.0                               |  |
| 5    | Flow Rate <sup>(1)</sup>                        | m <sup>3</sup> /s  | 162.9                             |  |
| 6    | Flow Rate <sup>(2)</sup>                        | Nm <sup>3</sup> /s | 114.5                             |  |
| 7    | Moisture Content <sup>(1)</sup>                 | %                  | 11.60                             |  |
| 8    | O <sub>2</sub> Rate <sup>(1)</sup> , dry basis  | %                  | 11.6                              |  |
| 9    | CO <sub>2</sub> Rate <sup>(1)</sup> , dry basis | %                  | 9.0                               |  |
| 10   | Absolute Stack Pressure <sup>(1)</sup>          | mm.Hg              | 752.5                             |  |

| Parameter   | Unit               | Method  | Result                           |                    | Standard<br>(With Combustion) | Analysis<br>Date |
|-------------|--------------------|---|----------------------------------|--------------------|-------------------------------|------------------|
|             |                    |   | Soot Blow                        |                    |                               |                  |
|             |                    |   | 2309-AS0700                      |                    |                               |                  |
|             |                    |   | ปล่องหม้อไอน้ำของโครงการ(Outlet) |                    |                               |                  |
| Particulate | mg/Nm <sup>3</sup> | Isokinetic, Gravimetric Method<br>(US.EPA Method 5, Dec 07, 2020) | 6.0 <sup>(2)</sup>               | 9.0 <sup>(3)</sup> | 120                           | 22-25/09/23      |

**Remarks** : ปล่องหม้อไอน้ำของโครงการ (Outlet) = 47P 0726668 UTM 1710549

(1) Flue conditions

(2) The concentrations of air emissions and emission rate are based on the reference condition of 25 °C at 1 atm or 760 mm.Hg and dry basis, (closed system)

(3) The concentrations of air emissions are based on the reference condition of 25 °C at 1 atm or 760 mm.Hg, excess oxygen of 7 % and dry basis, (closed system)

**Standard** : Notification of the Ministry of Industry (2004) (B.E. 2547) : (New Power Plant)

Source ; Biomass 60 Ton/hr., อัตราการผลิตไอน้ำ 132 Ton/hr., อัตราการผลิตไฟฟ้า 8 MW

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

ว-236-ท-0002



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

ว-236-ท-0003

- PRIVATE LABORATORY REGISTERED NO. ว-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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## TEST REPORT

**Analysis No.** : R23-3014  
**Received Date** : 25-26/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017

**Report Date** : 12/10/23  
**Analysis Date** : 25-28/09/23  
**Job No.** : S660153/Sep  
**Sampling By** : TET  
**Type of Sample** : Ambient Air

| Sampling Point                                    | Sample No.  | Sampling Date | Result                      |                               | Analysis Date |
|---|-------------|---------------|-----------------------------|-------------------------------|---------------|
|   |             |               | TSP<br>(mg/m <sup>3</sup> ) | PM-10<br>(mg/m <sup>3</sup> ) |               |
| บ้านพักพนักงานโรงงาน<br>(47P 0725934 UTM 1709955) | 2309-AA0727 | 18-19/09/23   | 0.025                       | 0.012                         | 25-27/09/23   |
|   | 2309-AA0731 | 19-20/09/23   | 0.023                       | 0.018                         | 25-27/09/23   |
|   | 2309-AA0735 | 20-21/09/23   | 0.028                       | 0.010                         | 25-27/09/23   |
|   | 2309-AA0739 | 21-22/09/23   | 0.018                       | 0.009                         | 25-27/09/23   |
|   | 2309-AA0743 | 22-23/09/23   | 0.025                       | 0.010                         | 25-27/09/23   |
|   | 2309-AA0747 | 23-24/09/23   | 0.025                       | 0.013                         | 25-27/09/23   |
|   | 2309-AA0830 | 24-25/09/23   | 0.025                       | 0.014                         | 26-28/09/23   |
| บ้านท่าไม้ทอง<br>(47P 0727240 UTM 1708283)        | 2309-AA0728 | 18-19/09/23   | 0.015                       | 0.009                         | 25-27/09/23   |
|   | 2309-AA0732 | 19-20/09/23   | 0.023                       | 0.013                         | 25-27/09/23   |
|   | 2309-AA0736 | 20-21/09/23   | 0.016                       | 0.012                         | 25-27/09/23   |
|   | 2309-AA0740 | 21-22/09/23   | 0.026                       | 0.011                         | 25-27/09/23   |
|   | 2309-AA0744 | 22-23/09/23   | 0.016                       | 0.010                         | 25-27/09/23   |
|   | 2309-AA0748 | 23-24/09/23   | 0.033                       | 0.008                         | 25-27/09/23   |
|   | 2309-AA0831 | 24-25/09/23   | 0.034                       | 0.017                         | 26-28/09/23   |
| Standard  |             |               | 0.33                        | 0.12                          |               |

**Method** : TSP = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix B)

PM-10 = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix J)

**Standard** : Notification of the National Environment Board No. 10 (1995) (B.E. 2538) and No. 24 (2004) (B.E. 2547), 24-hr. average value

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
12/10/23



Approved by

Mrs. Pornpip Pethshee  
Laboratory Manager  
12/10/23

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## TEST REPORT

**Analysis No.** : R23-3014  
**Received Date** : 25-26/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017


**Report Date** : 12/10/23  
**Analysis Date** : 25-28/09/23  
**Job No.** : S660153/Sep  
**Sampling By** : TET  
**Type of Sample** : Ambient Air

| Sampling Point                                    | Sample No.  | Sampling Date | Result                      |                               | Analysis Date |
|---|-------------|---------------|-----------------------------|-------------------------------|---------------|
|   |             |               | TSP<br>(mg/m <sup>3</sup> ) | PM-10<br>(mg/m <sup>3</sup> ) |               |
| วัดบึงศรีเทพรัตนาราม<br>(47P 0729146 UTM 1711346) | 2309-AA0729 | 18-19/09/23   | 0.020                       | 0.012                         | 25-27/09/23   |
|   | 2309-AA0733 | 19-20/09/23   | 0.031                       | 0.013                         | 25-27/09/23   |
|   | 2309-AA0737 | 20-21/09/23   | 0.025                       | 0.011                         | 25-27/09/23   |
|   | 2309-AA0741 | 21-22/09/23   | 0.028                       | 0.011                         | 25-27/09/23   |
|   | 2309-AA0745 | 22-23/09/23   | 0.014                       | 0.009                         | 25-27/09/23   |
|   | 2309-AA0749 | 23-24/09/23   | 0.037                       | 0.014                         | 25-27/09/23   |
|   | 2309-AA0832 | 24-25/09/23   | 0.049                       | 0.006                         | 26-28/09/23   |
| วัดแม่น้ำแควป่าสัก<br>(47P 0725991 UTM 1710558)   | 2309-AA0730 | 18-19/09/23   | 0.021                       | 0.013                         | 25-27/09/23   |
|   | 2309-AA0734 | 19-20/09/23   | 0.040                       | 0.022                         | 25-27/09/23   |
|   | 2309-AA0738 | 20-21/09/23   | 0.024                       | 0.021                         | 25-27/09/23   |
|   | 2309-AA0742 | 21-22/09/23   | 0.028                       | 0.012                         | 25-27/09/23   |
|   | 2309-AA0746 | 22-23/09/23   | 0.021                       | 0.014                         | 25-27/09/23   |
|   | 2309-AA0750 | 23-24/09/23   | 0.028                       | 0.011                         | 25-27/09/23   |
|   | 2309-AA0833 | 24-25/09/23   | 0.028                       | 0.018                         | 26-28/09/23   |
| Standard  |             |               | 0.33                        | 0.12                          |               |

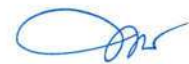
**Method** : TSP = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix B)

PM-10 = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix J)

**Standard** : Notification of the National Environment Board No. 10 (1995) (B.E. 2538) and No. 24 (2004) (B.E. 2547), 24-hr. average value

Reviewed by   
Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
12/10/23



Approved by   
Mrs. Pornpip Pethshee  
Laboratory Manager  
12/10/23

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## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3014/2023/1-15

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 3, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ  
จังหวัดเพชรบูรณ์ 67170

Sampling Date : September 18-25, 2023

Type of Sample : Ambient Air

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep

| Item     | Time        | Result                |             |             |             |             |             |             |
|----------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|          |             | บ้านพักพนักงานโรงงาน  |             |             |             |             |             |             |
|          |             | NO <sub>2</sub> (ppm) |             |             |             |             |             |             |
|          |             | 18-19/09/23           | 19-20/09/23 | 20-21/09/23 | 21-22/09/23 | 22-23/09/23 | 23-24/09/23 | 24-25/09/23 |
| 1.       | 10:00-11:00 | 0.0031                | 0.0029      | 0.0053      | 0.0046      | 0.0033      | 0.0025      | 0.0035      |
| 2.       | 11:00-12:00 | 0.0027                | 0.0028      | 0.0048      | 0.0011      | 0.0032      | 0.0026      | 0.0035      |
| 3.       | 12:00-13:00 | 0.0028                | 0.0027      | 0.0048      | 0.0012      | 0.0031      | 0.0026      | 0.0035      |
| 4.       | 13:00-14:00 | 0.0029                | 0.0027      | 0.0045      | 0.0023      | 0.0034      | 0.0029      | 0.0035      |
| 5.       | 14:00-15:00 | 0.0030                | 0.0028      | 0.0044      | 0.0022      | 0.0036      | 0.0029      | 0.0034      |
| 6.       | 15:00-16:00 | 0.0030                | 0.0027      | 0.0043      | 0.0022      | 0.0035      | 0.0032      | 0.0034      |
| 7.       | 16:00-17:00 | 0.0033                | 0.0027      | 0.0041      | 0.0030      | 0.0035      | 0.0037      | 0.0036      |
| 8.       | 17:00-18:00 | 0.0034                | 0.0026      | 0.0041      | 0.0025      | 0.0034      | 0.0037      | 0.0034      |
| 9.       | 18:00-19:00 | 0.0034                | 0.0027      | 0.0039      | 0.0024      | 0.0033      | 0.0038      | 0.0034      |
| 10.      | 19:00-20:00 | 0.0034                | 0.0027      | 0.0040      | 0.0025      | 0.0031      | 0.0044      | 0.0037      |
| 11.      | 20:00-21:00 | 0.0036                | 0.0028      | 0.0038      | 0.0023      | 0.0030      | 0.0037      | 0.0034      |
| 12.      | 21:00-22:00 | 0.0035                | 0.0029      | 0.0038      | 0.0023      | 0.0030      | 0.0036      | 0.0038      |
| 13.      | 22:00-23:00 | 0.0034                | 0.0029      | 0.0038      | 0.0024      | 0.0028      | 0.0041      | 0.0041      |
| 14.      | 23:00-00:00 | 0.0037                | 0.0032      | 0.0038      | 0.0025      | 0.0028      | 0.0052      | 0.0041      |
| 15.      | 00:00-01:00 | 0.0039                | 0.0032      | 0.0037      | 0.0028      | 0.0026      | 0.0050      | 0.0043      |
| 16.      | 01:00-02:00 | 0.0038                | 0.0035      | 0.0037      | 0.0024      | 0.0025      | 0.0045      | 0.0041      |
| 17.      | 02:00-03:00 | 0.0038                | 0.0040      | 0.0039      | 0.0025      | 0.0024      | 0.0045      | 0.0034      |
| 18.      | 03:00-04:00 | 0.0037                | 0.0040      | 0.0037      | 0.0026      | 0.0024      | 0.0042      | 0.0030      |
| 19.      | 04:00-05:00 | 0.0036                | 0.0041      | 0.0037      | 0.0027      | 0.0025      | 0.0041      | 0.0032      |
| 20.      | 05:00-06:00 | 0.0034                | 0.0047      | 0.0040      | 0.0027      | 0.0024      | 0.0040      | 0.0053      |
| 21.      | 06:00-07:00 | 0.0033                | 0.0040      | 0.0037      | 0.0030      | 0.0024      | 0.0038      | 0.0023      |
| 22.      | 07:00-08:00 | 0.0033                | 0.0039      | 0.0041      | 0.0031      | 0.0023      | 0.0038      | 0.0020      |
| 23.      | 08:00-09:00 | 0.0031                | 0.0044      | 0.0044      | 0.0031      | 0.0024      | 0.0036      | 0.0020      |
| 24.      | 09:00-10:00 | 0.0031                | 0.0055      | 0.0044      | 0.0031      | 0.0024      | 0.0037      | 0.0020      |
| Minimum  |             | 0.0027                | 0.0026      | 0.0037      | 0.0011      | 0.0023      | 0.0025      | 0.0020      |
| Maximum  |             | 0.0039                | 0.0055      | 0.0053      | 0.0046      | 0.0036      | 0.0052      | 0.0053      |
| Average  |             | 0.0033                | 0.0033      | 0.0041      | 0.0026      | 0.0029      | 0.0038      | 0.0034      |
| Standard |             | 0.17                  |             |             |             |             |             |             |

Standard : Notification of the National Environment Board No. 33 (2009)(B.E. 2552)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3014/2023/2-15

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 3, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ  
จังหวัดเพชรบูรณ์ 67170

Sampling Date : September 18-25, 2023

Type of Sample : Ambient Air

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep

| Item     | Time        | Result                |             |             |             |             |             |             |
|----------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|          |             | บ้านท่าไม้ทอง         |             |             |             |             |             |             |
|          |             | NO <sub>2</sub> (ppm) |             |             |             |             |             |             |
|          |             | 18-19/09/23           | 19-20/09/23 | 20-21/09/23 | 21-22/09/23 | 22-23/09/23 | 23-24/09/23 | 24-25/09/23 |
| 1.       | 11:00-12:00 | 0.0018                | 0.0014      | 0.0014      | 0.0009      | 0.0009      | 0.0009      | 0.0011      |
| 2.       | 12:00-13:00 | 0.0019                | 0.0009      | 0.0013      | 0.0007      | 0.0010      | 0.0006      | 0.0008      |
| 3.       | 13:00-14:00 | 0.0017                | 0.0009      | 0.0012      | 0.0007      | 0.0010      | 0.0005      | 0.0007      |
| 4.       | 14:00-15:00 | 0.0011                | 0.0009      | 0.0012      | 0.0007      | 0.0011      | 0.0005      | 0.0006      |
| 5.       | 15:00-16:00 | 0.0010                | 0.0008      | 0.0009      | 0.0007      | 0.0008      | 0.0005      | 0.0007      |
| 6.       | 16:00-17:00 | 0.0009                | 0.0009      | 0.0009      | 0.0007      | 0.0010      | 0.0005      | 0.0006      |
| 7.       | 17:00-18:00 | 0.0009                | 0.0009      | 0.0009      | 0.0007      | 0.0010      | 0.0006      | 0.0007      |
| 8.       | 18:00-19:00 | 0.0009                | 0.0009      | 0.0009      | 0.0007      | 0.0009      | 0.0006      | 0.0008      |
| 9.       | 19:00-20:00 | 0.0011                | 0.0009      | 0.0009      | 0.0007      | 0.0009      | 0.0005      | 0.0006      |
| 10.      | 20:00-21:00 | 0.0011                | 0.0008      | 0.0010      | 0.0007      | 0.0009      | 0.0007      | 0.0006      |
| 11.      | 21:00-22:00 | 0.0016                | 0.0009      | 0.0011      | 0.0008      | 0.0009      | 0.0010      | 0.0007      |
| 12.      | 22:00-23:00 | 0.0020                | 0.0011      | 0.0015      | 0.0010      | 0.0008      | 0.0010      | 0.0010      |
| 13.      | 23:00-00:00 | 0.0022                | 0.0017      | 0.0015      | 0.0013      | 0.0008      | 0.0015      | 0.0015      |
| 14.      | 00:00-01:00 | 0.0024                | 0.0021      | 0.0015      | 0.0017      | 0.0008      | 0.0017      | 0.0019      |
| 15.      | 01:00-02:00 | 0.0036                | 0.0029      | 0.0020      | 0.0020      | 0.0010      | 0.0016      | 0.0011      |
| 16.      | 02:00-03:00 | 0.0029                | 0.0014      | 0.0018      | 0.0019      | 0.0010      | 0.0014      | 0.0008      |
| 17.      | 03:00-04:00 | 0.0036                | 0.0019      | 0.0021      | 0.0018      | 0.0013      | 0.0023      | 0.0011      |
| 18.      | 04:00-05:00 | 0.0025                | 0.0021      | 0.0019      | 0.0015      | 0.0009      | 0.0017      | 0.0011      |
| 19.      | 05:00-06:00 | 0.0025                | 0.0019      | 0.0011      | 0.0014      | 0.0007      | 0.0017      | 0.0010      |
| 20.      | 06:00-07:00 | 0.0022                | 0.0016      | 0.0010      | 0.0013      | 0.0008      | 0.0017      | 0.0010      |
| 21.      | 07:00-08:00 | 0.0018                | 0.0022      | 0.0008      | 0.0016      | 0.0011      | 0.0015      | 0.0010      |
| 22.      | 08:00-09:00 | 0.0016                | 0.0020      | 0.0010      | 0.0012      | 0.0010      | 0.0013      | 0.0009      |
| 23.      | 09:00-10:00 | 0.0017                | 0.0016      | 0.0009      | 0.0012      | 0.0009      | 0.0016      | 0.0010      |
| 24.      | 10:00-11:00 | 0.0016                | 0.0017      | 0.0011      | 0.0010      | 0.0009      | 0.0013      | 0.0020      |
| Minimum  |             | 0.0009                | 0.0008      | 0.0008      | 0.0007      | 0.0007      | 0.0005      | 0.0006      |
| Maximum  |             | 0.0036                | 0.0029      | 0.0021      | 0.0020      | 0.0013      | 0.0023      | 0.0020      |
| Average  |             | 0.0019                | 0.0014      | 0.0012      | 0.0011      | 0.0009      | 0.0011      | 0.0010      |
| Standard |             | 0.17                  |             |             |             |             |             |             |

Standard : Notification of the National Environment Board No. 33 (2009)(B.E. 2552)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3014/2023/3-15

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 3, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ  
จังหวัดเพชรบูรณ์ 67170

Sampling Date : September 18-25, 2023

Type of Sample : Ambient Air

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep

| Item     | Time        | Result                |             |             |             |             |             |             |
|----------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|          |             | วัดปึงศรีเทพรัตนาราม  |             |             |             |             |             |             |
|          |             | NO <sub>2</sub> (ppm) |             |             |             |             |             |             |
|          |             | 18-19/09/23           | 19-20/09/23 | 20-21/09/23 | 21-22/09/23 | 22-23/09/23 | 23-24/09/23 | 24-25/09/23 |
| 1.       | 12:00-13:00 | 0.0007                | 0.0006      | 0.0007      | 0.0006      | 0.0007      | 0.0007      | 0.0006      |
| 2.       | 13:00-14:00 | 0.0008                | 0.0006      | 0.0005      | 0.0005      | 0.0007      | 0.0006      | 0.0007      |
| 3.       | 14:00-15:00 | 0.0008                | 0.0005      | 0.0006      | 0.0013      | 0.0006      | 0.0006      | 0.0006      |
| 4.       | 15:00-16:00 | 0.0010                | 0.0005      | 0.0012      | 0.0010      | 0.0006      | 0.0005      | 0.0006      |
| 5.       | 16:00-17:00 | 0.0007                | 0.0006      | 0.0006      | 0.0011      | 0.0007      | 0.0005      | 0.0007      |
| 6.       | 17:00-18:00 | 0.0010                | 0.0006      | 0.0007      | 0.0035      | 0.0006      | 0.0006      | 0.0007      |
| 7.       | 18:00-19:00 | 0.0011                | 0.0005      | 0.0006      | 0.0024      | 0.0006      | 0.0006      | 0.0007      |
| 8.       | 19:00-20:00 | 0.0006                | 0.0005      | 0.0006      | 0.0024      | 0.0006      | 0.0006      | 0.0006      |
| 9.       | 20:00-21:00 | 0.0007                | 0.0006      | 0.0006      | 0.0036      | 0.0006      | 0.0008      | 0.0004      |
| 10.      | 21:00-22:00 | 0.0006                | 0.0006      | 0.0006      | 0.0067      | 0.0006      | 0.0006      | 0.0005      |
| 11.      | 22:00-23:00 | 0.0005                | 0.0006      | 0.0005      | 0.0037      | 0.0006      | 0.0006      | 0.0006      |
| 12.      | 23:00-00:00 | 0.0006                | 0.0006      | 0.0006      | 0.0018      | 0.0006      | 0.0006      | 0.0006      |
| 13.      | 00:00-01:00 | 0.0006                | 0.0006      | 0.0005      | 0.0008      | 0.0007      | 0.0008      | 0.0006      |
| 14.      | 01:00-02:00 | 0.0005                | 0.0007      | 0.0006      | 0.0010      | 0.0006      | 0.0012      | 0.0006      |
| 15.      | 02:00-03:00 | 0.0008                | 0.0008      | 0.0006      | 0.0009      | 0.0006      | 0.0008      | 0.0007      |
| 16.      | 03:00-04:00 | 0.0007                | 0.0008      | 0.0007      | 0.0009      | 0.0006      | 0.0012      | 0.0007      |
| 17.      | 04:00-05:00 | 0.0008                | 0.0006      | 0.0007      | 0.0009      | 0.0006      | 0.0011      | 0.0007      |
| 18.      | 05:00-06:00 | 0.0010                | 0.0009      | 0.0007      | 0.0010      | 0.0006      | 0.0008      | 0.0005      |
| 19.      | 06:00-07:00 | 0.0009                | 0.0009      | 0.0006      | 0.0007      | 0.0006      | 0.0016      | 0.0006      |
| 20.      | 07:00-08:00 | 0.0006                | 0.0008      | 0.0007      | 0.0006      | 0.0007      | 0.0008      | 0.0007      |
| 21.      | 08:00-09:00 | 0.0005                | 0.0007      | 0.0006      | 0.0007      | 0.0007      | 0.0008      | 0.0007      |
| 22.      | 09:00-10:00 | 0.0005                | 0.0007      | 0.0006      | 0.0008      | 0.0007      | 0.0008      | 0.0021      |
| 23.      | 10:00-11:00 | 0.0005                | 0.0007      | 0.0004      | 0.0007      | 0.0006      | 0.0008      | 0.0019      |
| 24.      | 11:00-12:00 | 0.0006                | 0.0007      | 0.0007      | 0.0008      | 0.0007      | 0.0009      | 0.0020      |
| Minimum  |             | 0.0005                | 0.0005      | 0.0004      | 0.0005      | 0.0006      | 0.0005      | 0.0004      |
| Maximum  |             | 0.0011                | 0.0009      | 0.0012      | 0.0067      | 0.0007      | 0.0016      | 0.0021      |
| Average  |             | 0.0007                | 0.0006      | 0.0006      | 0.0016      | 0.0006      | 0.0008      | 0.0008      |
| Standard |             | 0.17                  |             |             |             |             |             |             |

Standard : Notification of the National Environment Board No. 33 (2009)(B.E. 2552)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3014/2023/4-15

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 3, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ  
จังหวัดเพชรบูรณ์ 67170

Sampling Date : September 18-25, 2023

Type of Sample : Ambient Air

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep

| Item     | Time        | Result                |             |             |             |             |             |             |
|----------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|          |             | วัดแม่น้ำแควป่าสัก    |             |             |             |             |             |             |
|          |             | NO <sub>2</sub> (ppm) |             |             |             |             |             |             |
|          |             | 18-19/09/23           | 19-20/09/23 | 20-21/09/23 | 21-22/09/23 | 22-23/09/23 | 23-24/09/23 | 24-25/09/23 |
| 1.       | 13:00-14:00 | 0.0039                | 0.0042      | 0.0051      | 0.0047      | 0.0045      | 0.0032      | 0.0037      |
| 2.       | 14:00-15:00 | 0.0044                | 0.0038      | 0.0060      | 0.0041      | 0.0033      | 0.0053      | 0.0055      |
| 3.       | 15:00-16:00 | 0.0039                | 0.0035      | 0.0027      | 0.0052      | 0.0030      | 0.0039      | 0.0038      |
| 4.       | 16:00-17:00 | 0.0034                | 0.0032      | 0.0036      | 0.0042      | 0.0036      | 0.0053      | 0.0047      |
| 5.       | 17:00-18:00 | 0.0024                | 0.0041      | 0.0033      | 0.0035      | 0.0058      | 0.0044      | 0.0038      |
| 6.       | 18:00-19:00 | 0.0029                | 0.0039      | 0.0052      | 0.0052      | 0.0055      | 0.0034      | 0.0046      |
| 7.       | 19:00-20:00 | 0.0037                | 0.0039      | 0.0060      | 0.0053      | 0.0049      | 0.0024      | 0.0056      |
| 8.       | 20:00-21:00 | 0.0042                | 0.0029      | 0.0034      | 0.0044      | 0.0033      | 0.0047      | 0.0046      |
| 9.       | 21:00-22:00 | 0.0016                | 0.0036      | 0.0054      | 0.0041      | 0.0050      | 0.0023      | 0.0036      |
| 10.      | 22:00-23:00 | 0.0028                | 0.0056      | 0.0033      | 0.0046      | 0.0031      | 0.0026      | 0.0037      |
| 11.      | 23:00-00:00 | 0.0021                | 0.0047      | 0.0027      | 0.0031      | 0.0037      | 0.0026      | 0.0033      |
| 12.      | 00:00-01:00 | 0.0027                | 0.0041      | 0.0032      | 0.0037      | 0.0037      | 0.0026      | 0.0030      |
| 13.      | 01:00-02:00 | 0.0028                | 0.0040      | 0.0034      | 0.0032      | 0.0033      | 0.0024      | 0.0029      |
| 14.      | 02:00-03:00 | 0.0039                | 0.0062      | 0.0029      | 0.0029      | 0.0035      | 0.0030      | 0.0033      |
| 15.      | 03:00-04:00 | 0.0030                | 0.0047      | 0.0020      | 0.0029      | 0.0041      | 0.0031      | 0.0053      |
| 16.      | 04:00-05:00 | 0.0042                | 0.0041      | 0.0032      | 0.0033      | 0.0035      | 0.0026      | 0.0041      |
| 17.      | 05:00-06:00 | 0.0037                | 0.0043      | 0.0037      | 0.0029      | 0.0035      | 0.0032      | 0.0040      |
| 18.      | 06:00-07:00 | 0.0032                | 0.0036      | 0.0030      | 0.0024      | 0.0031      | 0.0030      | 0.0035      |
| 19.      | 07:00-08:00 | 0.0034                | 0.0056      | 0.0038      | 0.0026      | 0.0027      | 0.0026      | 0.0031      |
| 20.      | 08:00-09:00 | 0.0044                | 0.0046      | 0.0044      | 0.0030      | 0.0025      | 0.0024      | 0.0026      |
| 21.      | 09:00-10:00 | 0.0038                | 0.0034      | 0.0038      | 0.0022      | 0.0024      | 0.0025      | 0.0027      |
| 22.      | 10:00-11:00 | 0.0032                | 0.0028      | 0.0048      | 0.0022      | 0.0023      | 0.0023      | 0.0023      |
| 23.      | 11:00-12:00 | 0.0035                | 0.0032      | 0.0041      | 0.0023      | 0.0023      | 0.0023      | 0.0032      |
| 24.      | 12:00-13:00 | 0.0042                | 0.0039      | 0.0044      | 0.0027      | 0.0026      | 0.0025      | 0.0021      |
| Minimum  |             | 0.0016                | 0.0028      | 0.0020      | 0.0022      | 0.0023      | 0.0023      | 0.0021      |
| Maximum  |             | 0.0044                | 0.0062      | 0.0060      | 0.0053      | 0.0058      | 0.0053      | 0.0056      |
| Average  |             | 0.0034                | 0.0041      | 0.0039      | 0.0035      | 0.0036      | 0.0031      | 0.0037      |
| Standard |             | 0.17                  |             |             |             |             |             |             |

Standard : Notification of the National Environment Board No. 33 (2009)(B.E. 2552)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3014/2023/5-15

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 3, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ

Sampling Date : September 18-25, 2023

จังหวัดเพชรบูรณ์ 67170

Type of Sample : Ambient Air

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep

| Item     | Time        | Result                |             |             |             |             |             |             |
|----------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|          |             | บ้านพักพนักงานโรงงาน  |             |             |             |             |             |             |
|          |             | SO <sub>2</sub> (ppm) |             |             |             |             |             |             |
|          |             | 18-19/09/23           | 19-20/09/23 | 20-21/09/23 | 21-22/09/23 | 22-23/09/23 | 23-24/09/23 | 24-25/09/23 |
| 1.       | 10:00-11:00 | 0.0024                | 0.0023      | 0.0026      | 0.0025      | 0.0021      | 0.0025      | 0.0021      |
| 2.       | 11:00-12:00 | 0.0020                | 0.0018      | 0.0025      | 0.0029      | 0.0020      | 0.0019      | 0.0027      |
| 3.       | 12:00-13:00 | 0.0026                | 0.0029      | 0.0019      | 0.0022      | 0.0026      | 0.0020      | 0.0021      |
| 4.       | 13:00-14:00 | 0.0018                | 0.0028      | 0.0018      | 0.0025      | 0.0025      | 0.0028      | 0.0025      |
| 5.       | 14:00-15:00 | 0.0027                | 0.0027      | 0.0020      | 0.0021      | 0.0024      | 0.0024      | 0.0028      |
| 6.       | 15:00-16:00 | 0.0028                | 0.0020      | 0.0028      | 0.0025      | 0.0020      | 0.0027      | 0.0026      |
| 7.       | 16:00-17:00 | 0.0019                | 0.0016      | 0.0025      | 0.0025      | 0.0025      | 0.0022      | 0.0026      |
| 8.       | 17:00-18:00 | 0.0022                | 0.0021      | 0.0027      | 0.0026      | 0.0027      | 0.0025      | 0.0027      |
| 9.       | 18:00-19:00 | 0.0025                | 0.0023      | 0.0028      | 0.0018      | 0.0028      | 0.0027      | 0.0025      |
| 10.      | 19:00-20:00 | 0.0026                | 0.0026      | 0.0019      | 0.0019      | 0.0026      | 0.0027      | 0.0025      |
| 11.      | 20:00-21:00 | 0.0020                | 0.0025      | 0.0022      | 0.0027      | 0.0022      | 0.0020      | 0.0021      |
| 12.      | 21:00-22:00 | 0.0018                | 0.0022      | 0.0028      | 0.0027      | 0.0021      | 0.0024      | 0.0025      |
| 13.      | 22:00-23:00 | 0.0019                | 0.0023      | 0.0029      | 0.0019      | 0.0024      | 0.0025      | 0.0023      |
| 14.      | 23:00-00:00 | 0.0026                | 0.0025      | 0.0028      | 0.0026      | 0.0026      | 0.0029      | 0.0022      |
| 15.      | 00:00-01:00 | 0.0022                | 0.0021      | 0.0022      | 0.0025      | 0.0020      | 0.0024      | 0.0027      |
| 16.      | 01:00-02:00 | 0.0025                | 0.0027      | 0.0028      | 0.0025      | 0.0023      | 0.0026      | 0.0020      |
| 17.      | 02:00-03:00 | 0.0022                | 0.0028      | 0.0026      | 0.0020      | 0.0027      | 0.0027      | 0.0025      |
| 18.      | 03:00-04:00 | 0.0021                | 0.0022      | 0.0025      | 0.0030      | 0.0023      | 0.0027      | 0.0020      |
| 19.      | 04:00-05:00 | 0.0022                | 0.0024      | 0.0022      | 0.0027      | 0.0025      | 0.0024      | 0.0022      |
| 20.      | 05:00-06:00 | 0.0030                | 0.0035      | 0.0021      | 0.0021      | 0.0028      | 0.0023      | 0.0026      |
| 21.      | 06:00-07:00 | 0.0025                | 0.0022      | 0.0027      | 0.0020      | 0.0025      | 0.0022      | 0.0027      |
| 22.      | 07:00-08:00 | 0.0035                | 0.0021      | 0.0021      | 0.0020      | 0.0024      | 0.0028      | 0.0023      |
| 23.      | 08:00-09:00 | 0.0024                | 0.0027      | 0.0025      | 0.0019      | 0.0022      | 0.0028      | 0.0027      |
| 24.      | 09:00-10:00 | 0.0018                | 0.0026      | 0.0023      | 0.0028      | 0.0028      | 0.0025      | 0.0021      |
| Minimum  |             | 0.0018                | 0.0016      | 0.0018      | 0.0018      | 0.0020      | 0.0019      | 0.0020      |
| Maximum  |             | 0.0035                | 0.0035      | 0.0029      | 0.0030      | 0.0028      | 0.0029      | 0.0028      |
| Average  |             | 0.0023                | 0.0024      | 0.0024      | 0.0024      | 0.0024      | 0.0025      | 0.0024      |
| Standard |             | 0.30                  |             |             |             |             |             |             |

Standard : Notification of the National Environment Board No. 12 (1995)(B.E. 2538) and No. 21 (2001)(B.E. 2544)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3014/2023/6-15

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 3, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ

Sampling Date : September 18-25, 2023

จังหวัดเพชรบูรณ์ 67170

Type of Sample : Ambient Air

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep

| Item     | Time        | Result                |             |             |             |             |             |             |
|----------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|          |             | บ้านท่าไม้ทอง         |             |             |             |             |             |             |
|          |             | SO <sub>2</sub> (ppm) |             |             |             |             |             |             |
|          |             | 18-19/09/23           | 19-20/09/23 | 20-21/09/23 | 21-22/09/23 | 22-23/09/23 | 23-24/09/23 | 24-25/09/23 |
| 1.       | 11:00-12:00 | 0.0016                | 0.0014      | 0.0021      | 0.0025      | 0.0016      | 0.0015      | 0.0023      |
| 2.       | 12:00-13:00 | 0.0022                | 0.0025      | 0.0015      | 0.0018      | 0.0022      | 0.0016      | 0.0017      |
| 3.       | 13:00-14:00 | 0.0014                | 0.0024      | 0.0014      | 0.0021      | 0.0021      | 0.0024      | 0.0021      |
| 4.       | 14:00-15:00 | 0.0023                | 0.0023      | 0.0016      | 0.0017      | 0.0020      | 0.0020      | 0.0024      |
| 5.       | 15:00-16:00 | 0.0024                | 0.0016      | 0.0024      | 0.0021      | 0.0016      | 0.0023      | 0.0022      |
| 6.       | 16:00-17:00 | 0.0015                | 0.0012      | 0.0021      | 0.0021      | 0.0021      | 0.0018      | 0.0022      |
| 7.       | 17:00-18:00 | 0.0018                | 0.0017      | 0.0023      | 0.0022      | 0.0023      | 0.0021      | 0.0023      |
| 8.       | 18:00-19:00 | 0.0021                | 0.0019      | 0.0024      | 0.0014      | 0.0024      | 0.0023      | 0.0021      |
| 9.       | 19:00-20:00 | 0.0022                | 0.0022      | 0.0015      | 0.0015      | 0.0022      | 0.0023      | 0.0021      |
| 10.      | 20:00-21:00 | 0.0016                | 0.0021      | 0.0018      | 0.0023      | 0.0018      | 0.0016      | 0.0017      |
| 11.      | 21:00-22:00 | 0.0014                | 0.0018      | 0.0024      | 0.0023      | 0.0017      | 0.0020      | 0.0021      |
| 12.      | 22:00-23:00 | 0.0015                | 0.0019      | 0.0025      | 0.0015      | 0.0020      | 0.0021      | 0.0019      |
| 13.      | 23:00-00:00 | 0.0022                | 0.0021      | 0.0024      | 0.0022      | 0.0022      | 0.0025      | 0.0018      |
| 14.      | 00:00-01:00 | 0.0018                | 0.0017      | 0.0018      | 0.0021      | 0.0016      | 0.0020      | 0.0023      |
| 15.      | 01:00-02:00 | 0.0021                | 0.0023      | 0.0024      | 0.0021      | 0.0019      | 0.0022      | 0.0016      |
| 16.      | 02:00-03:00 | 0.0018                | 0.0024      | 0.0022      | 0.0016      | 0.0023      | 0.0023      | 0.0021      |
| 17.      | 03:00-04:00 | 0.0017                | 0.0018      | 0.0021      | 0.0026      | 0.0019      | 0.0023      | 0.0016      |
| 18.      | 04:00-05:00 | 0.0018                | 0.0020      | 0.0018      | 0.0023      | 0.0021      | 0.0020      | 0.0018      |
| 19.      | 05:00-06:00 | 0.0026                | 0.0031      | 0.0017      | 0.0017      | 0.0024      | 0.0019      | 0.0022      |
| 20.      | 06:00-07:00 | 0.0021                | 0.0018      | 0.0023      | 0.0016      | 0.0021      | 0.0018      | 0.0023      |
| 21.      | 07:00-08:00 | 0.0031                | 0.0017      | 0.0017      | 0.0016      | 0.0020      | 0.0024      | 0.0019      |
| 22.      | 08:00-09:00 | 0.0020                | 0.0023      | 0.0021      | 0.0015      | 0.0018      | 0.0024      | 0.0023      |
| 23.      | 09:00-10:00 | 0.0014                | 0.0022      | 0.0019      | 0.0024      | 0.0024      | 0.0021      | 0.0017      |
| 24.      | 10:00-11:00 | 0.0019                | 0.0022      | 0.0021      | 0.0017      | 0.0021      | 0.0017      | 0.0028      |
| Minimum  |             | 0.0014                | 0.0012      | 0.0014      | 0.0014      | 0.0016      | 0.0015      | 0.0016      |
| Maximum  |             | 0.0031                | 0.0031      | 0.0025      | 0.0026      | 0.0024      | 0.0025      | 0.0028      |
| Average  |             | 0.0019                | 0.0020      | 0.0020      | 0.0020      | 0.0020      | 0.0021      | 0.0021      |
| Standard |             | 0.30                  |             |             |             |             |             |             |

Standard : Notification of the National Environment Board No. 12 (1995)(B.E. 2538) and No. 21 (2001)(B.E. 2544)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3014/2023/7-15

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 3, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ

Sampling Date : September 18-25, 2023

จังหวัดเพชรบูรณ์ 67170

Type of Sample : Ambient Air

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep

| Item     | Time        | Result                |             |             |             |             |             |             |
|----------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|          |             | วัดบึงศรีเทพรัตนาราม  |             |             |             |             |             |             |
|          |             | SO <sub>2</sub> (ppm) |             |             |             |             |             |             |
|          |             | 18-19/09/23           | 19-20/09/23 | 20-21/09/23 | 21-22/09/23 | 22-23/09/23 | 23-24/09/23 | 24-25/09/23 |
| 1.       | 12:00-13:00 | 0.0017                | 0.0020      | 0.0010      | 0.0013      | 0.0017      | 0.0011      | 0.0012      |
| 2.       | 13:00-14:00 | 0.0009                | 0.0019      | 0.0009      | 0.0016      | 0.0016      | 0.0019      | 0.0016      |
| 3.       | 14:00-15:00 | 0.0018                | 0.0018      | 0.0011      | 0.0012      | 0.0015      | 0.0015      | 0.0019      |
| 4.       | 15:00-16:00 | 0.0019                | 0.0011      | 0.0019      | 0.0016      | 0.0011      | 0.0018      | 0.0017      |
| 5.       | 16:00-17:00 | 0.0010                | 0.0007      | 0.0016      | 0.0016      | 0.0016      | 0.0013      | 0.0017      |
| 6.       | 17:00-18:00 | 0.0013                | 0.0012      | 0.0018      | 0.0017      | 0.0018      | 0.0016      | 0.0018      |
| 7.       | 18:00-19:00 | 0.0016                | 0.0014      | 0.0019      | 0.0009      | 0.0019      | 0.0018      | 0.0016      |
| 8.       | 19:00-20:00 | 0.0017                | 0.0017      | 0.0010      | 0.0010      | 0.0017      | 0.0018      | 0.0016      |
| 9.       | 20:00-21:00 | 0.0011                | 0.0016      | 0.0013      | 0.0018      | 0.0013      | 0.0011      | 0.0012      |
| 10.      | 21:00-22:00 | 0.0009                | 0.0013      | 0.0019      | 0.0018      | 0.0012      | 0.0015      | 0.0016      |
| 11.      | 22:00-23:00 | 0.0010                | 0.0014      | 0.0020      | 0.0010      | 0.0015      | 0.0016      | 0.0014      |
| 12.      | 23:00-00:00 | 0.0017                | 0.0016      | 0.0019      | 0.0017      | 0.0017      | 0.0020      | 0.0013      |
| 13.      | 00:00-01:00 | 0.0013                | 0.0012      | 0.0013      | 0.0016      | 0.0011      | 0.0015      | 0.0018      |
| 14.      | 01:00-02:00 | 0.0016                | 0.0018      | 0.0019      | 0.0016      | 0.0014      | 0.0017      | 0.0011      |
| 15.      | 02:00-03:00 | 0.0013                | 0.0019      | 0.0017      | 0.0011      | 0.0018      | 0.0018      | 0.0016      |
| 16.      | 03:00-04:00 | 0.0012                | 0.0013      | 0.0016      | 0.0021      | 0.0014      | 0.0018      | 0.0011      |
| 17.      | 04:00-05:00 | 0.0013                | 0.0015      | 0.0013      | 0.0018      | 0.0016      | 0.0015      | 0.0013      |
| 18.      | 05:00-06:00 | 0.0021                | 0.0026      | 0.0012      | 0.0012      | 0.0019      | 0.0014      | 0.0017      |
| 19.      | 06:00-07:00 | 0.0016                | 0.0013      | 0.0018      | 0.0011      | 0.0016      | 0.0013      | 0.0018      |
| 20.      | 07:00-08:00 | 0.0026                | 0.0012      | 0.0012      | 0.0011      | 0.0015      | 0.0019      | 0.0014      |
| 21.      | 08:00-09:00 | 0.0015                | 0.0018      | 0.0016      | 0.0010      | 0.0013      | 0.0019      | 0.0018      |
| 22.      | 09:00-10:00 | 0.0009                | 0.0017      | 0.0014      | 0.0019      | 0.0019      | 0.0016      | 0.0012      |
| 23.      | 10:00-11:00 | 0.0014                | 0.0017      | 0.0016      | 0.0012      | 0.0016      | 0.0012      | 0.0028      |
| 24.      | 11:00-12:00 | 0.0009                | 0.0016      | 0.0020      | 0.0011      | 0.0010      | 0.0018      | 0.0021      |
| Minimum  |             | 0.0009                | 0.0007      | 0.0009      | 0.0009      | 0.0010      | 0.0011      | 0.0011      |
| Maximum  |             | 0.0026                | 0.0026      | 0.0020      | 0.0021      | 0.0019      | 0.0020      | 0.0028      |
| Average  |             | 0.0014                | 0.0016      | 0.0015      | 0.0014      | 0.0015      | 0.0016      | 0.0016      |
| Standard |             | 0.30                  |             |             |             |             |             |             |

Standard : Notification of the National Environment Board No. 12 (1995)(B.E. 2538) and No. 21 (2001)(B.E. 2544)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3014/2023/8-15

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 3, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ

Sampling Date : September 18-25, 2023

จังหวัดเพชรบูรณ์ 67170

Type of Sample : Ambient Air

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep

| Item     | Time        | Result                |             |             |             |             |             |             |
|----------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|          |             | วัดแม่น้ำแควป่าสัก    |             |             |             |             |             |             |
|          |             | SO <sub>2</sub> (ppm) |             |             |             |             |             |             |
|          |             | 18-19/09/23           | 19-20/09/23 | 20-21/09/23 | 21-22/09/23 | 22-23/09/23 | 23-24/09/23 | 24-25/09/23 |
| 1.       | 13:00-14:00 | 0.0004                | 0.0014      | 0.0004      | 0.0011      | 0.0011      | 0.0014      | 0.0011      |
| 2.       | 14:00-15:00 | 0.0013                | 0.0013      | 0.0006      | 0.0007      | 0.0010      | 0.0010      | 0.0014      |
| 3.       | 15:00-16:00 | 0.0014                | 0.0006      | 0.0014      | 0.0011      | 0.0006      | 0.0013      | 0.0012      |
| 4.       | 16:00-17:00 | 0.0005                | 0.0002      | 0.0011      | 0.0011      | 0.0011      | 0.0008      | 0.0012      |
| 5.       | 17:00-18:00 | 0.0008                | 0.0007      | 0.0013      | 0.0012      | 0.0013      | 0.0011      | 0.0013      |
| 6.       | 18:00-19:00 | 0.0011                | 0.0009      | 0.0014      | 0.0004      | 0.0014      | 0.0013      | 0.0011      |
| 7.       | 19:00-20:00 | 0.0012                | 0.0012      | 0.0005      | 0.0005      | 0.0012      | 0.0013      | 0.0011      |
| 8.       | 20:00-21:00 | 0.0006                | 0.0011      | 0.0008      | 0.0013      | 0.0008      | 0.0006      | 0.0007      |
| 9.       | 21:00-22:00 | 0.0004                | 0.0008      | 0.0014      | 0.0013      | 0.0007      | 0.0010      | 0.0011      |
| 10.      | 22:00-23:00 | 0.0005                | 0.0009      | 0.0015      | 0.0005      | 0.0010      | 0.0011      | 0.0009      |
| 11.      | 23:00-00:00 | 0.0012                | 0.0011      | 0.0014      | 0.0012      | 0.0012      | 0.0015      | 0.0008      |
| 12.      | 00:00-01:00 | 0.0008                | 0.0007      | 0.0008      | 0.0011      | 0.0006      | 0.0010      | 0.0013      |
| 13.      | 01:00-02:00 | 0.0011                | 0.0013      | 0.0014      | 0.0011      | 0.0009      | 0.0012      | 0.0006      |
| 14.      | 02:00-03:00 | 0.0008                | 0.0014      | 0.0012      | 0.0006      | 0.0013      | 0.0013      | 0.0011      |
| 15.      | 03:00-04:00 | 0.0007                | 0.0008      | 0.0011      | 0.0016      | 0.0009      | 0.0013      | 0.0006      |
| 16.      | 04:00-05:00 | 0.0008                | 0.0010      | 0.0008      | 0.0013      | 0.0011      | 0.0010      | 0.0008      |
| 17.      | 05:00-06:00 | 0.0016                | 0.0021      | 0.0007      | 0.0007      | 0.0014      | 0.0009      | 0.0012      |
| 18.      | 06:00-07:00 | 0.0011                | 0.0008      | 0.0013      | 0.0006      | 0.0011      | 0.0008      | 0.0013      |
| 19.      | 07:00-08:00 | 0.0021                | 0.0007      | 0.0007      | 0.0006      | 0.0010      | 0.0014      | 0.0009      |
| 20.      | 08:00-09:00 | 0.0010                | 0.0013      | 0.0011      | 0.0005      | 0.0008      | 0.0014      | 0.0013      |
| 21.      | 09:00-10:00 | 0.0004                | 0.0012      | 0.0009      | 0.0014      | 0.0014      | 0.0011      | 0.0007      |
| 22.      | 10:00-11:00 | 0.0009                | 0.0012      | 0.0011      | 0.0007      | 0.0011      | 0.0007      | 0.0019      |
| 23.      | 11:00-12:00 | 0.0004                | 0.0011      | 0.0015      | 0.0006      | 0.0005      | 0.0013      | 0.0024      |
| 24.      | 12:00-13:00 | 0.0015                | 0.0005      | 0.0008      | 0.0012      | 0.0006      | 0.0007      | 0.0031      |
| Minimum  |             | 0.0004                | 0.0002      | 0.0004      | 0.0004      | 0.0005      | 0.0006      | 0.0006      |
| Maximum  |             | 0.0021                | 0.0021      | 0.0015      | 0.0016      | 0.0014      | 0.0015      | 0.0031      |
| Average  |             | 0.0009                | 0.0010      | 0.0011      | 0.0009      | 0.0010      | 0.0011      | 0.0012      |
| Standard |             | 0.30                  |             |             |             |             |             |             |

Standard : Notification of the National Environment Board No. 12 (1995)(B.E. 2538) and No. 21 (2001)(B.E. 2544)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3014/2023/9-15

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 3, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ

Sampling Date : September 18-25, 2023

จังหวัดเพชรบูรณ์ 67170

Type of Sample : WS & WD

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep

| Item    | Time  | วัดแม่น้ำแควป่าสัก |     |             |     |             |     |             |     |             |     |             |     |             |     |
|---------|-------|--------------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|
|         |       | 18-19/09/23        |     | 19-20/09/23 |     | 20-21/09/23 |     | 21-22/09/23 |     | 22-23/09/23 |     | 23-24/09/23 |     | 24-25/09/23 |     |
|         |       | WS                 | WD  | WS          | WD  | WS          | WD  | WS          | WD  | WS          | WD  | WS          | WD  | WS          | WD  |
| 1.      | 13:00 | 0.0                | W   | 1.3         | NW  | 0.9         | SSW | 1.3         | NNE | 0.9         | NNW | 0.4         | NW  | 0.0         | N   |
| 2.      | 14:00 | 2.2                | NW  | 0.9         | WNW | 0.9         | S   | 1.3         | N   | 0.4         | N   | 0.0         | NW  | 0.0         | N   |
| 3.      | 15:00 | 0.9                | WNW | 0.4         | WNW | 0.9         | S   | 1.3         | NNE | 0.0         | NNW | 0.0         | NW  | 0.0         | SE  |
| 4.      | 16:00 | 0.9                | S   | 0.4         | SSW | 1.8         | SSE | 1.3         | NNE | 0.0         | N   | 0.0         | NW  | 0.0         | NE  |
| 5.      | 17:00 | 0.9                | SSW | 0.4         | SSW | 1.3         | S   | 1.3         | N   | 0.0         | N   | 0.0         | NW  | 0.0         | N   |
| 6.      | 18:00 | 0.4                | SSW | 0.4         | SSW | 0.9         | N   | 3.1         | SE  | 0.0         | N   | 0.4         | NW  | 0.4         | N   |
| 7.      | 19:00 | 0.4                | SSW | 0.4         | S   | 0.4         | E   | 3.1         | NE  | 0.4         | N   | 0.4         | NW  | 0.4         | SE  |
| 8.      | 20:00 | 0.0                | SSW | 0.9         | ESE | 0.9         | ESE | 0.4         | NE  | 0.0         | N   | 0.0         | NW  | 0.0         | NE  |
| 9.      | 21:00 | 0.0                | SSW | 0.9         | N   | 0.9         | ESE | 0.4         | NE  | 0.0         | N   | 0.0         | SSW | 0.0         | N   |
| 10.     | 22:00 | 0.4                | N   | 0.0         | N   | 0.4         | E   | 0.4         | NE  | 0.0         | N   | 0.0         | SSW | 0.0         | N   |
| 11.     | 23:00 | 0.4                | N   | 0.4         | E   | 0.4         | SE  | 1.8         | SE  | 0.0         | N   | 0.0         | SSW | 0.0         | SE  |
| 12.     | 00:00 | 0.0                | N   | 0.9         | ESE | 0.4         | SE  | 1.3         | NE  | 0.0         | N   | 0.0         | SSW | 0.0         | N   |
| 13.     | 01:00 | 0.0                | N   | 0.4         | SSE | 0.0         | NE  | 1.8         | N   | 0.4         | N   | 0.0         | N   | 0.0         | N   |
| 14.     | 02:00 | 0.0                | N   | 0.0         | SE  | 0.0         | NE  | 1.3         | N   | 0.9         | N   | 0.4         | N   | 0.9         | N   |
| 15.     | 03:00 | 0.0                | N   | 0.9         | E   | 0.4         | NE  | 0.9         | N   | 0.9         | N   | 0.9         | NW  | 0.9         | N   |
| 16.     | 04:00 | 0.4                | N   | 0.9         | E   | 0.0         | NE  | 0.9         | N   | 1.8         | NW  | 1.3         | N   | 1.3         | N   |
| 17.     | 05:00 | 0.9                | NNW | 0.0         | E   | 0.9         | NNE | 1.3         | N   | 1.3         | WNW | 1.3         | N   | 1.3         | N   |
| 18.     | 06:00 | 0.4                | NNW | 0.4         | E   | 0.4         | NNE | 1.3         | NNW | 1.3         | S   | 1.8         | NW  | 0.0         | N   |
| 19.     | 07:00 | 0.9                | NNW | 0.4         | E   | 0.9         | E   | 1.3         | NNW | 1.3         | N   | 2.2         | N   | 0.0         | N   |
| 20.     | 08:00 | 1.3                | N   | 0.4         | N   | 0.9         | NNE | 1.3         | N   | 1.3         | N   | 1.8         | N   | 0.9         | N   |
| 21.     | 09:00 | 1.3                | NNW | 0.9         | N   | 0.9         | NNE | 0.9         | NNW | 1.3         | N   | 1.3         | NW  | 0.9         | N   |
| 22.     | 10:00 | 1.8                | NNW | 1.3         | NW  | 1.8         | NNE | 0.9         | NNW | 0.9         | NW  | 1.3         | N   | 0.4         | ENE |
| 23.     | 11:00 | 1.3                | NW  | 1.3         | NW  | 2.2         | N   | 0.9         | N   | 0.9         | NW  | 0.9         | SE  | 0.4         | WSW |
| 24.     | 12:00 | 1.3                | N   | 1.3         | SSE | 1.3         | NNE | 0.4         | NNW | 0.4         | NW  | 0.4         | NE  | 0.4         | NW  |
| Average |       | 0.7                | -   | 0.6         | -   | 0.8         | -   | 1.3         | -   | 0.6         | -   | 0.6         | -   | 0.3         | -   |

Remark : WS = WIND SPEED (m/s)  
WD = WIND DIRECTION

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 3014/2023/10-15  
Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2 Report Date : October 3, 2023  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ Sampling Date : September 18-25, 2023  
จังหวัดเพชรบูรณ์ 67170 Type of Sample : Sound Level  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017  
Job No. : S660153/Sep

| Item                       | Time        | Result (dB(A))     |      |      |             |      |      |             |      |      |             |      |      |
|----------------------------|-------------|--------------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|
|                            |             | วัดแม่น้ำแควป่าสัก |      |      |             |      |      |             |      |      |             |      |      |
|                            |             | 18-19/09/23        |      |      | 19-20/09/23 |      |      | 20-21/09/23 |      |      | 21-22/09/23 |      |      |
|                            |             | Leq                | Lmax | L90  | Leq         | Lmax | L90  | Leq         | Lmax | L90  | Leq         | Lmax | L90  |
| 1.                         | 11:00-12:00 | 53.6               | 74.4 | 52.0 | 55.0        | 69.7 | 53.7 | 56.0        | 64.5 | 54.4 | 55.6        | 81.0 | 50.2 |
| 2.                         | 12:00-13:00 | 54.1               | 77.7 | 52.1 | 55.7        | 72.5 | 54.0 | 56.7        | 69.1 | 54.2 | 54.6        | 73.0 | 52.8 |
| 3.                         | 13:00-14:00 | 55.7               | 75.3 | 53.6 | 55.9        | 68.7 | 53.3 | 56.2        | 69.6 | 54.9 | 54.6        | 68.7 | 52.8 |
| 4.                         | 14:00-15:00 | 55.7               | 76.5 | 54.1 | 55.8        | 70.2 | 53.9 | 59.0        | 78.4 | 55.3 | 55.1        | 76.4 | 52.4 |
| 5.                         | 15:00-16:00 | 56.2               | 67.1 | 54.7 | 57.6        | 73.6 | 55.8 | 61.2        | 81.7 | 58.8 | 54.1        | 74.2 | 52.2 |
| 6.                         | 16:00-17:00 | 56.9               | 73.9 | 54.9 | 57.2        | 69.3 | 55.5 | 57.6        | 72.1 | 55.5 | 53.6        | 68.7 | 52.5 |
| 7.                         | 17:00-18:00 | 57.4               | 78.5 | 54.6 | 57.2        | 70.4 | 55.9 | 58.4        | 68.6 | 57.2 | 54.5        | 66.9 | 52.7 |
| 8.                         | 18:00-19:00 | 56.4               | 76.3 | 54.5 | 56.9        | 72.7 | 55.4 | 58.7        | 80.7 | 55.9 | 57.2        | 90.8 | 49.2 |
| 9.                         | 19:00-20:00 | 55.4               | 66.9 | 54.2 | 57.2        | 70.0 | 56.4 | 56.5        | 72.8 | 54.4 | 52.1        | 68.3 | 50.1 |
| 10.                        | 20:00-21:00 | 55.9               | 70.8 | 55.1 | 56.6        | 69.7 | 55.2 | 55.0        | 66.3 | 53.8 | 51.8        | 65.7 | 50.2 |
| 11.                        | 21:00-22:00 | 55.6               | 61.1 | 54.9 | 56.9        | 64.5 | 55.9 | 54.8        | 67.6 | 53.6 | 50.3        | 73.1 | 46.4 |
| 12.                        | 22:00-23:00 | 55.3               | 67.4 | 54.4 | 59.0        | 79.5 | 56.1 | 54.6        | 72.8 | 53.2 | 50.4        | 73.2 | 46.4 |
| 13.                        | 23:00-00:00 | 55.3               | 64.5 | 54.4 | 57.1        | 70.8 | 56.1 | 54.7        | 74.3 | 53.0 | 50.1        | 73.0 | 45.9 |
| 14.                        | 00:00-01:00 | 55.2               | 65.6 | 54.5 | 56.9        | 62.5 | 55.7 | 51.1        | 60.5 | 50.1 | 50.2        | 70.7 | 45.7 |
| 15.                        | 01:00-02:00 | 54.8               | 62.5 | 53.9 | 57.4        | 62.2 | 56.2 | 51.5        | 64.5 | 49.8 | 53.9        | 81.1 | 48.5 |
| 16.                        | 02:00-03:00 | 55.9               | 75.5 | 54.0 | 57.0        | 63.9 | 55.7 | 52.6        | 67.2 | 51.1 | 52.4        | 73.6 | 48.1 |
| 17.                        | 03:00-04:00 | 57.7               | 74.4 | 55.5 | 58.9        | 70.4 | 56.7 | 55.9        | 75.0 | 52.0 | 53.9        | 75.1 | 49.6 |
| 18.                        | 04:00-05:00 | 57.4               | 73.9 | 55.7 | 58.0        | 67.4 | 56.4 | 54.4        | 64.7 | 51.2 | 53.3        | 72.3 | 48.7 |
| 19.                        | 05:00-06:00 | 56.7               | 64.0 | 55.3 | 58.1        | 69.8 | 56.7 | 53.9        | 71.6 | 49.6 | 52.9        | 69.8 | 48.7 |
| 20.                        | 06:00-07:00 | 56.4               | 69.2 | 55.1 | 58.4        | 76.3 | 56.5 | 53.7        | 74.5 | 49.3 | 50.3        | 71.8 | 46.3 |
| 21.                        | 07:00-08:00 | 56.5               | 71.8 | 54.7 | 57.9        | 75.3 | 55.7 | 54.2        | 80.1 | 48.8 | 53.6        | 70.9 | 47.6 |
| 22.                        | 08:00-09:00 | 55.9               | 70.9 | 54.3 | 56.3        | 69.4 | 54.2 | 52.4        | 74.9 | 49.2 | 53.9        | 75.5 | 51.8 |
| 23.                        | 09:00-10:00 | 56.2               | 77.7 | 54.0 | 56.6        | 69.8 | 54.9 | 54.0        | 76.7 | 49.9 | 54.3        | 73.4 | 52.2 |
| 24.                        | 10:00-11:00 | 55.0               | 67.1 | 53.1 | 56.1        | 69.3 | 54.6 | 54.4        | 71.1 | 50.1 | 55.8        | 64.9 | 53.6 |
| Leq 24 hr                  |             | 56.0               | -    | -    | 57.2        | -    | -    | 56.0        | -    | -    | 53.7        | -    | -    |
| Lmax                       |             | -                  | 78.5 | -    | -           | 79.5 | -    | -           | 81.7 | -    | -           | 90.8 | -    |
| Standard <sup>(1)(2)</sup> |             | 70                 | 115  | -    | 70          | 115  | -    | 70          | 115  | -    | 70          | 115  | -    |
| Ldn                        |             | 62.5               | -    | -    | 64.2        | -    | -    | 60.8        | -    | -    | 59.0        | -    | -    |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 15 (1997)(B.E. 2540)

<sup>(2)</sup> Notification of the Ministry of Industry (2005)(B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ  
จังหวัดเพชรบูรณ์ 67170  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017  
Job No. : S660153/Sep

Report No. : 3014/2023/11-15  
Report Date : October 3, 2023  
Sampling Date : September 18-25, 2023  
Type of Sample : Sound Level

| Item                       | Time        | Result (dB(A))     |      |                 |             |      |                 |             |      |                 |
|----------------------------|-------------|--------------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
|                            |             | วัดแม่น้ำแควป่าสัก |      |                 |             |      |                 |             |      |                 |
|                            |             | 22-23/09/23        |      |                 | 23-24/09/23 |      |                 | 24-25/09/23 |      |                 |
|                            |             | Leq                | Lmax | L <sub>90</sub> | Leq         | Lmax | L <sub>90</sub> | Leq         | Lmax | L <sub>90</sub> |
| 1.                         | 11:00-12:00 | 55.1               | 71.8 | 53.6            | 53.7        | 78.4 | 50.5            | 56.9        | 74.8 | 51.3            |
| 2.                         | 12:00-13:00 | 59.6               | 83.3 | 56.0            | 53.4        | 74.8 | 50.6            | 56.5        | 71.7 | 54.6            |
| 3.                         | 13:00-14:00 | 58.9               | 79.1 | 53.7            | 56.0        | 73.7 | 50.8            | 55.9        | 72.1 | 54.3            |
| 4.                         | 14:00-15:00 | 55.5               | 83.6 | 45.1            | 54.3        | 75.7 | 51.4            | 58.3        | 82.5 | 54.9            |
| 5.                         | 15:00-16:00 | 52.4               | 64.6 | 46.2            | 54.0        | 81.7 | 51.2            | 54.2        | 76.6 | 51.3            |
| 6.                         | 16:00-17:00 | 56.2               | 70.5 | 53.9            | 54.1        | 74.1 | 51.7            | 53.0        | 67.0 | 50.5            |
| 7.                         | 17:00-18:00 | 54.8               | 72.2 | 52.9            | 53.0        | 69.2 | 51.5            | 53.3        | 70.2 | 50.6            |
| 8.                         | 18:00-19:00 | 55.6               | 74.1 | 53.4            | 52.3        | 71.7 | 50.2            | 52.9        | 63.3 | 51.0            |
| 9.                         | 19:00-20:00 | 53.9               | 69.1 | 52.1            | 52.5        | 69.7 | 50.7            | 54.3        | 67.9 | 52.4            |
| 10.                        | 20:00-21:00 | 53.6               | 70.7 | 52.0            | 51.3        | 57.3 | 50.5            | 52.7        | 68.1 | 46.7            |
| 11.                        | 21:00-22:00 | 53.5               | 67.4 | 51.5            | 51.1        | 62.6 | 50.2            | 51.7        | 68.7 | 47.3            |
| 12.                        | 22:00-23:00 | 52.7               | 60.3 | 52.0            | 51.9        | 63.1 | 50.6            | 54.0        | 76.2 | 48.0            |
| 13.                        | 23:00-00:00 | 53.6               | 74.7 | 51.9            | 51.9        | 56.9 | 50.7            | 54.2        | 75.4 | 47.2            |
| 14.                        | 00:00-01:00 | 52.8               | 64.4 | 52.0            | 51.9        | 67.5 | 50.9            | 53.3        | 75.7 | 48.8            |
| 15.                        | 01:00-02:00 | 52.8               | 58.7 | 52.1            | 51.6        | 62.1 | 50.4            | 51.4        | 61.9 | 49.8            |
| 16.                        | 02:00-03:00 | 52.8               | 57.7 | 52.0            | 52.1        | 70.4 | 50.5            | 52.2        | 73.8 | 49.5            |
| 17.                        | 03:00-04:00 | 54.1               | 71.4 | 52.0            | 51.8        | 65.5 | 50.6            | 52.8        | 62.3 | 51.5            |
| 18.                        | 04:00-05:00 | 56.4               | 82.3 | 53.7            | 52.8        | 68.3 | 49.4            | 52.5        | 66.2 | 50.6            |
| 19.                        | 05:00-06:00 | 55.3               | 67.9 | 53.3            | 52.0        | 70.4 | 49.0            | 53.1        | 67.5 | 49.7            |
| 20.                        | 06:00-07:00 | 55.4               | 70.0 | 53.2            | 52.2        | 70.9 | 48.4            | 52.6        | 73.3 | 48.5            |
| 21.                        | 07:00-08:00 | 55.4               | 77.7 | 52.7            | 52.7        | 73.4 | 48.8            | 53.8        | 68.8 | 52.0            |
| 22.                        | 08:00-09:00 | 54.9               | 70.8 | 53.2            | 52.4        | 72.7 | 48.9            | 54.1        | 75.6 | 51.7            |
| 23.                        | 09:00-10:00 | 54.9               | 74.0 | 53.4            | 53.5        | 74.2 | 49.0            | 52.4        | 67.6 | 50.5            |
| 24.                        | 10:00-11:00 | 53.4               | 76.7 | 51.1            | 54.8        | 75.6 | 51.6            | 52.8        | 75.6 | 44.4            |
| Leq 24 hr                  |             | 55.2               | -    | -               | 53.0        | -    | -               | 54.1        | -    | -               |
| Lmax                       |             | -                  | 83.6 | -               | -           | 81.7 | -               | -           | 82.5 | -               |
| Standard <sup>(1)(2)</sup> |             | 70                 | 115  | -               | 70          | 115  | -               | 70          | 115  | -               |
| Ldn                        |             | 60.8               | -    | -               | 58.7        | -    | -               | 59.7        | -    | -               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 15 (1997)(B.E. 2540)

<sup>(2)</sup> Notification of the Ministry of Industry (2005)(B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Thai Environmental Technic Limited  
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3014/2023/12-15

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 3, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ  
จังหวัดเพชรบูรณ์ 67170

Sampling Date : September 18-25, 2023

Type of Sample : Sound Level

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep

| Item                       | Time        | Result (dB(A))       |      |                 |             |      |                 |             |      |                 |             |      |                 |
|----------------------------|-------------|----------------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
|                            |             | วัดบึงศรีเทพรัตนาราม |      |                 |             |      |                 |             |      |                 |             |      |                 |
|                            |             | 18-19/09/23          |      |                 | 19-20/09/23 |      |                 | 20-21/09/23 |      |                 | 21-22/09/23 |      |                 |
|                            |             | Leq                  | Lmax | L <sub>90</sub> | Leq         | Lmax | L <sub>90</sub> | Leq         | Lmax | L <sub>90</sub> | Leq         | Lmax | L <sub>90</sub> |
| 1.                         | 10:00-11:00 | 52.0                 | 72.0 | 49.5            | 58.3        | 70.3 | 52.6            | 53.8        | 56.4 | 53.1            | 52.5        | 54.7 | 51.9            |
| 2.                         | 11:00-12:00 | 53.1                 | 60.9 | 52.6            | 57.9        | 77.1 | 51.2            | 53.0        | 61.6 | 52.3            | 58.9        | 72.0 | 52.4            |
| 3.                         | 12:00-13:00 | 52.8                 | 60.2 | 52.3            | 58.3        | 68.3 | 52.5            | 53.3        | 65.3 | 52.4            | 58.6        | 73.9 | 53.2            |
| 4.                         | 13:00-14:00 | 55.2                 | 66.6 | 52.0            | 56.8        | 69.7 | 52.3            | 53.6        | 66.9 | 52.7            | 60.3        | 76.3 | 54.6            |
| 5.                         | 14:00-15:00 | 56.6                 | 68.4 | 50.2            | 58.7        | 71.7 | 54.7            | 52.7        | 57.5 | 52.3            | 57.6        | 70.2 | 51.6            |
| 6.                         | 15:00-16:00 | 57.6                 | 69.6 | 52.1            | 59.6        | 70.2 | 57.6            | 52.7        | 54.8 | 52.3            | 55.0        | 61.7 | 53.9            |
| 7.                         | 16:00-17:00 | 54.7                 | 69.9 | 51.0            | 58.2        | 71.3 | 53.7            | 52.5        | 55.4 | 52.0            | 53.6        | 60.3 | 51.7            |
| 8.                         | 17:00-18:00 | 56.9                 | 67.2 | 53.3            | 57.2        | 69.5 | 50.9            | 55.8        | 65.1 | 51.7            | 53.3        | 63.4 | 51.5            |
| 9.                         | 18:00-19:00 | 56.7                 | 73.4 | 50.5            | 57.2        | 70.8 | 53.1            | 54.3        | 59.6 | 53.0            | 52.9        | 56.0 | 51.5            |
| 10.                        | 19:00-20:00 | 56.8                 | 71.1 | 52.8            | 56.1        | 73.5 | 50.9            | 53.8        | 76.8 | 52.0            | 53.0        | 57.3 | 51.7            |
| 11.                        | 20:00-21:00 | 53.8                 | 63.2 | 51.6            | 60.5        | 70.5 | 54.6            | 54.3        | 70.4 | 52.3            | 52.7        | 57.1 | 51.2            |
| 12.                        | 21:00-22:00 | 54.6                 | 70.3 | 50.8            | 52.5        | 57.3 | 51.7            | 53.1        | 61.5 | 52.4            | 53.2        | 56.6 | 51.6            |
| 13.                        | 22:00-23:00 | 52.4                 | 54.5 | 51.7            | 52.1        | 59.2 | 51.5            | 56.1        | 67.2 | 52.2            | 54.0        | 56.7 | 52.6            |
| 14.                        | 23:00-00:00 | 52.3                 | 56.0 | 51.7            | 52.5        | 64.9 | 51.3            | 54.3        | 61.7 | 53.1            | 53.3        | 58.0 | 52.1            |
| 15.                        | 00:00-01:00 | 52.3                 | 56.4 | 51.5            | 52.0        | 64.8 | 50.0            | 55.1        | 71.0 | 51.6            | 54.0        | 77.2 | 51.7            |
| 16.                        | 01:00-02:00 | 52.5                 | 55.4 | 51.9            | 53.0        | 73.5 | 51.1            | 54.3        | 66.8 | 49.6            | 52.5        | 60.1 | 51.4            |
| 17.                        | 02:00-03:00 | 52.0                 | 67.7 | 51.1            | 53.7        | 71.5 | 51.7            | 51.1        | 63.7 | 49.4            | 52.9        | 57.5 | 52.2            |
| 18.                        | 03:00-04:00 | 51.6                 | 56.4 | 50.9            | 51.9        | 60.6 | 50.6            | 50.9        | 60.2 | 49.9            | 51.3        | 54.6 | 50.6            |
| 19.                        | 04:00-05:00 | 51.8                 | 60.1 | 51.1            | 52.7        | 65.9 | 51.3            | 51.0        | 66.1 | 49.9            | 51.3        | 54.0 | 50.7            |
| 20.                        | 05:00-06:00 | 51.6                 | 59.1 | 50.9            | 52.2        | 61.9 | 51.4            | 51.5        | 71.8 | 50.5            | 51.4        | 55.7 | 50.7            |
| 21.                        | 06:00-07:00 | 51.7                 | 60.5 | 51.1            | 51.5        | 66.4 | 51.3            | 51.6        | 66.2 | 50.4            | 51.8        | 58.0 | 51.0            |
| 22.                        | 07:00-08:00 | 51.3                 | 60.0 | 50.6            | 53.6        | 74.0 | 49.5            | 50.8        | 63.6 | 49.8            | 55.4        | 66.2 | 51.0            |
| 23.                        | 08:00-09:00 | 51.1                 | 63.0 | 50.3            | 52.5        | 58.7 | 51.5            | 50.6        | 59.5 | 49.6            | 54.0        | 73.6 | 50.6            |
| 24.                        | 09:00-10:00 | 57.9                 | 69.0 | 53.8            | 53.6        | 58.4 | 53.4            | 52.4        | 72.6 | 50.0            | 55.0        | 70.3 | 51.0            |
| Leq 24 hr                  |             | 54.3                 | -    | -               | 56.1        | -    | -               | 53.3        | -    | -               | 54.9        | -    | -               |
| Lmax                       |             | -                    | 73.4 | -               | -           | 77.1 | -               | -           | 76.8 | -               | -           | 77.2 | -               |
| Standard <sup>(1)(2)</sup> |             | 70                   | 115  | -               | 70          | 115  | -               | 70          | 115  | -               | 70          | 115  | -               |
| Ldn                        |             | 59.1                 | -    | -               | 60.0        | -    | -               | 59.7        | -    | -               | 59.7        | -    | -               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 15 (1997)(B.E. 2540)

<sup>(2)</sup> Notification of the Ministry of Industry (2005)(B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 3014/2023/13-15  
Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2 Report Date : October 3, 2023  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ Sampling Date : September 18-25, 2023  
จังหวัดเพชรบูรณ์ 67170 Type of Sample : Sound Level  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017  
Job No. : S660153/Sep

| Item                       | Time        | Result (dB(A))       |      |                 |             |      |                 |             |      |                 |
|----------------------------|-------------|----------------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
|                            |             | วัดบึงศรีเทพรัตนาราม |      |                 |             |      |                 |             |      |                 |
|                            |             | 22-23/09/23          |      |                 | 23-24/09/23 |      |                 | 24-25/09/23 |      |                 |
|                            |             | Leq                  | Lmax | L <sub>90</sub> | Leq         | Lmax | L <sub>90</sub> | Leq         | Lmax | L <sub>90</sub> |
| 1.                         | 10:00-11:00 | 55.9                 | 59.9 | 52.6            | 54.8        | 59.9 | 53.6            | 53.3        | 55.3 | 52.9            |
| 2.                         | 11:00-12:00 | 56.3                 | 59.8 | 53.3            | 54.7        | 59.5 | 53.4            | 53.1        | 61.0 | 52.3            |
| 3.                         | 12:00-13:00 | 55.5                 | 60.8 | 52.0            | 54.6        | 60.2 | 53.6            | 52.3        | 56.6 | 51.7            |
| 4.                         | 13:00-14:00 | 55.2                 | 59.7 | 52.0            | 54.9        | 61.8 | 53.6            | 52.8        | 64.7 | 52.0            |
| 5.                         | 14:00-15:00 | 56.1                 | 59.5 | 53.3            | 55.5        | 60.9 | 54.2            | 52.9        | 66.3 | 52.0            |
| 6.                         | 15:00-16:00 | 56.7                 | 60.0 | 54.2            | 55.5        | 61.1 | 54.3            | 52.1        | 56.9 | 51.8            |
| 7.                         | 16:00-17:00 | 56.6                 | 60.1 | 54.0            | 55.1        | 59.2 | 54.0            | 52.0        | 54.8 | 51.5            |
| 8.                         | 17:00-18:00 | 57.5                 | 63.0 | 54.5            | 54.8        | 60.0 | 53.7            | 51.9        | 54.1 | 51.4            |
| 9.                         | 18:00-19:00 | 56.5                 | 66.2 | 53.2            | 54.4        | 68.0 | 53.1            | 52.9        | 64.5 | 51.1            |
| 10.                        | 19:00-20:00 | 56.5                 | 64.2 | 54.5            | 53.4        | 56.9 | 52.1            | 53.3        | 62.6 | 51.8            |
| 11.                        | 20:00-21:00 | 57.0                 | 64.5 | 55.1            | 53.0        | 55.9 | 51.5            | 53.5        | 76.2 | 51.5            |
| 12.                        | 21:00-22:00 | 56.7                 | 66.6 | 53.4            | 52.7        | 55.3 | 51.4            | 53.5        | 63.4 | 51.8            |
| 13.                        | 22:00-23:00 | 55.2                 | 68.4 | 51.5            | 52.4        | 56.4 | 51.0            | 54.4        | 66.6 | 51.7            |
| 14.                        | 23:00-00:00 | 53.5                 | 56.6 | 51.8            | 53.3        | 56.6 | 51.7            | 54.0        | 64.4 | 51.4            |
| 15.                        | 00:00-01:00 | 54.1                 | 72.8 | 51.8            | 53.4        | 58.2 | 51.6            | 54.9        | 70.4 | 52.8            |
| 16.                        | 01:00-02:00 | 53.2                 | 64.2 | 51.4            | 52.7        | 56.1 | 51.4            | 54.1        | 66.8 | 49.9            |
| 17.                        | 02:00-03:00 | 51.9                 | 60.2 | 50.7            | 52.3        | 56.5 | 51.0            | 52.7        | 66.2 | 49.0            |
| 18.                        | 03:00-04:00 | 51.5                 | 67.1 | 50.7            | 52.0        | 59.6 | 50.7            | 50.0        | 60.1 | 48.8            |
| 19.                        | 04:00-05:00 | 51.5                 | 61.7 | 50.7            | 51.6        | 59.5 | 50.5            | 50.8        | 65.5 | 49.3            |
| 20.                        | 05:00-06:00 | 52.1                 | 59.6 | 50.9            | 52.9        | 67.5 | 50.6            | 50.0        | 55.6 | 49.3            |
| 21.                        | 06:00-07:00 | 51.7                 | 59.0 | 50.9            | 53.4        | 68.6 | 50.8            | 50.8        | 71.2 | 49.8            |
| 22.                        | 07:00-08:00 | 54.1                 | 77.3 | 51.5            | 50.5        | 65.8 | 48.8            | 51.1        | 65.6 | 49.8            |
| 23.                        | 08:00-09:00 | 53.9                 | 60.1 | 52.3            | 53.1        | 73.4 | 49.0            | 50.0        | 63.0 | 49.1            |
| 24.                        | 09:00-10:00 | 54.6                 | 61.2 | 53.1            | 52.0        | 57.8 | 50.9            | 50.1        | 58.9 | 49.2            |
| Leq 24 hr                  |             | 55.1                 | -    | -               | 53.6        | -    | -               | 52.6        | -    | -               |
| Lmax                       |             | -                    | 77.3 | -               | -           | 73.4 | -               | -           | 76.2 | -               |
| Standard <sup>(1)(2)</sup> |             | 70                   | 115  | -               | 70          | 115  | -               | 70          | 115  | -               |
| Ldn                        |             | 60.0                 | -    | -               | 59.3        | -    | -               | 59.2        | -    | -               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 15 (1997)(B.E. 2540)

<sup>(2)</sup> Notification of the Ministry of Industry (2005)(B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Thai Environmental Technic Limited  
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

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E-mail : admin@tet1995.com

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ  
จังหวัดเพชรบูรณ์ 67170  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017  
Job No. : S660153/Sep

Report No. : 3014/2023/14-15  
Report Date : October 3, 2023  
Sampling Date : September 18-25, 2023  
Type of Sample : Sound Level

| Item                       | Time        | Result (dB(A))        |      |      |             |      |      |             |      |      |             |      |      |
|----------------------------|-------------|-----------------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|
|                            |             | ริมรั้วพื้นที่โครงการ |      |      |             |      |      |             |      |      |             |      |      |
|                            |             | 18-19/09/23           |      |      | 19-20/09/23 |      |      | 20-21/09/23 |      |      | 21-22/09/23 |      |      |
|                            |             | Leq                   | Lmax | L90  | Leq         | Lmax | L90  | Leq         | Lmax | L90  | Leq         | Lmax | L90  |
| 1.                         | 09:00-10:00 | 52.3                  | 79.1 | 46.3 | 51.4        | 62.0 | 49.1 | 61.6        | 99.2 | 55.2 | 54.0        | 67.4 | 51.9 |
| 2.                         | 10:00-11:00 | 52.9                  | 79.8 | 49.1 | 52.1        | 76.1 | 47.7 | 59.7        | 97.1 | 54.4 | 53.1        | 67.0 | 50.6 |
| 3.                         | 11:00-12:00 | 51.0                  | 69.9 | 46.9 | 53.5        | 82.9 | 49.5 | 58.1        | 92.5 | 53.2 | 54.4        | 62.1 | 51.7 |
| 4.                         | 12:00-13:00 | 51.8                  | 76.2 | 48.0 | 54.3        | 77.2 | 49.2 | 53.6        | 80.9 | 51.6 | 52.8        | 66.1 | 49.6 |
| 5.                         | 13:00-14:00 | 52.9                  | 73.1 | 48.1 | 53.3        | 85.6 | 49.3 | 53.3        | 85.0 | 50.9 | 52.2        | 64.7 | 48.6 |
| 6.                         | 14:00-15:00 | 52.6                  | 74.3 | 48.5 | 53.2        | 76.0 | 49.2 | 52.9        | 60.7 | 51.5 | 52.3        | 63.8 | 48.6 |
| 7.                         | 15:00-16:00 | 50.6                  | 63.2 | 48.3 | 51.7        | 63.4 | 49.1 | 53.5        | 66.9 | 52.3 | 53.0        | 73.2 | 49.8 |
| 8.                         | 16:00-17:00 | 53.7                  | 64.3 | 49.5 | 54.1        | 67.0 | 49.5 | 55.3        | 81.3 | 53.4 | 53.1        | 77.5 | 50.5 |
| 9.                         | 17:00-18:00 | 51.4                  | 61.7 | 49.4 | 52.2        | 61.0 | 49.3 | 54.7        | 86.9 | 51.3 | 54.5        | 89.2 | 49.9 |
| 10.                        | 18:00-19:00 | 52.0                  | 57.5 | 49.9 | 51.3        | 63.0 | 49.4 | 54.5        | 87.9 | 52.1 | 52.1        | 70.6 | 49.7 |
| 11.                        | 19:00-20:00 | 52.2                  | 60.5 | 50.1 | 52.3        | 63.0 | 50.3 | 55.2        | 83.2 | 53.0 | 51.7        | 62.7 | 49.8 |
| 12.                        | 20:00-21:00 | 51.5                  | 56.2 | 49.7 | 52.4        | 58.1 | 50.7 | 55.4        | 80.4 | 51.5 | 53.4        | 72.0 | 50.6 |
| 13.                        | 21:00-22:00 | 51.6                  | 60.2 | 50.2 | 52.5        | 62.3 | 50.7 | 54.7        | 73.5 | 52.7 | 52.0        | 66.4 | 49.9 |
| 14.                        | 22:00-23:00 | 51.1                  | 57.8 | 49.7 | 53.5        | 76.1 | 51.2 | 54.0        | 75.2 | 52.1 | 51.0        | 67.1 | 47.9 |
| 15.                        | 23:00-00:00 | 51.6                  | 60.5 | 50.2 | 55.9        | 92.2 | 51.6 | 51.9        | 61.7 | 50.3 | 50.8        | 68.0 | 48.3 |
| 16.                        | 00:00-01:00 | 50.5                  | 59.0 | 49.0 | 54.8        | 87.7 | 50.8 | 50.5        | 61.0 | 48.6 | 50.8        | 68.3 | 48.1 |
| 17.                        | 01:00-02:00 | 48.6                  | 52.0 | 47.4 | 52.6        | 77.3 | 50.4 | 50.3        | 69.1 | 48.3 | 51.5        | 63.7 | 49.4 |
| 18.                        | 02:00-03:00 | 50.5                  | 56.9 | 48.9 | 54.7        | 95.1 | 52.6 | 50.6        | 59.6 | 49.2 | 51.1        | 69.1 | 48.4 |
| 19.                        | 03:00-04:00 | 53.3                  | 61.2 | 50.2 | 52.9        | 66.0 | 51.4 | 51.4        | 70.1 | 49.3 | 51.2        | 69.7 | 48.6 |
| 20.                        | 04:00-05:00 | 53.2                  | 65.5 | 50.9 | 53.3        | 60.1 | 52.1 | 50.8        | 82.4 | 48.8 | 51.1        | 63.3 | 49.1 |
| 21.                        | 05:00-06:00 | 53.0                  | 75.3 | 50.1 | 52.5        | 58.9 | 51.3 | 51.8        | 61.8 | 50.4 | 52.3        | 70.3 | 49.5 |
| 22.                        | 06:00-07:00 | 55.0                  | 69.5 | 50.1 | 53.6        | 66.1 | 50.7 | 52.2        | 65.4 | 50.7 | 52.2        | 69.8 | 49.9 |
| 23.                        | 07:00-08:00 | 55.1                  | 78.9 | 50.1 | 52.8        | 85.5 | 49.5 | 53.5        | 83.4 | 50.7 | 51.6        | 70.2 | 49.4 |
| 24.                        | 08:00-09:00 | 53.1                  | 80.0 | 49.0 | 58.1        | 93.1 | 54.2 | 52.3        | 73.6 | 49.3 | 51.4        | 67.2 | 48.7 |
| Leq 24 hr                  |             | 52.4                  | -    | -    | 53.6        | -    | -    | 54.9        | -    | -    | 52.4        | -    | -    |
| Lmax                       |             | -                     | 80.0 | -    | -           | 95.1 | -    | -           | 99.2 | -    | -           | 89.2 | -    |
| Standard <sup>(1)(2)</sup> |             | 70                    | 115  | -    | 70          | 115  | -    | 70          | 115  | -    | 70          | 115  | -    |
| Ldn                        |             | 58.7                  | -    | -    | 60.2        | -    | -    | 59.1        | -    | -    | 58.0        | -    | -    |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 15 (1997)(B.E. 2540)

<sup>(2)</sup> Notification of the Ministry of Industry (2005)(B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 3014/2023/15-15  
Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2 Report Date : October 3, 2023  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ Sampling Date : September 18-25, 2023  
จังหวัดเพชรบูรณ์ 67170 Type of Sample : Sound Level  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017  
Job No. : S660153/Sep

| Item                       | Time        | Result (dB(A))       |      |                 |             |      |                 |             |      |                 |
|----------------------------|-------------|----------------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
|                            |             | บริเวณพื้นที่โครงการ |      |                 |             |      |                 |             |      |                 |
|                            |             | 22-23/09/23          |      |                 | 23-24/09/23 |      |                 | 24-25/09/23 |      |                 |
|                            |             | Leq                  | Lmax | L <sub>90</sub> | Leq         | Lmax | L <sub>90</sub> | Leq         | Lmax | L <sub>90</sub> |
| 1.                         | 09:00-10:00 | 52.3                 | 73.4 | 49.5            | 53.6        | 88.8 | 51.3            | 50.7        | 63.1 | 47.9            |
| 2.                         | 10:00-11:00 | 52.5                 | 69.8 | 50.4            | 52.1        | 67.0 | 50.8            | 50.0        | 64.3 | 47.7            |
| 3.                         | 11:00-12:00 | 55.1                 | 68.8 | 53.3            | 51.5        | 65.4 | 50.2            | 51.6        | 77.1 | 48.7            |
| 4.                         | 12:00-13:00 | 54.4                 | 67.5 | 52.0            | 51.9        | 67.6 | 50.2            | 52.3        | 76.8 | 48.9            |
| 5.                         | 13:00-14:00 | 55.6                 | 68.4 | 52.7            | 50.9        | 78.2 | 48.8            | 51.3        | 77.3 | 47.8            |
| 6.                         | 14:00-15:00 | 55.3                 | 67.5 | 51.6            | 50.1        | 66.2 | 45.5            | 49.3        | 73.8 | 47.1            |
| 7.                         | 15:00-16:00 | 52.9                 | 66.1 | 50.0            | 51.4        | 81.4 | 46.1            | 48.3        | 65.2 | 46.3            |
| 8.                         | 16:00-17:00 | 53.8                 | 61.3 | 49.9            | 52.8        | 76.1 | 47.3            | 51.4        | 78.6 | 46.9            |
| 9.                         | 17:00-18:00 | 53.0                 | 65.2 | 50.0            | 49.0        | 72.4 | 46.0            | 54.4        | 81.0 | 47.0            |
| 10.                        | 18:00-19:00 | 50.9                 | 63.1 | 50.2            | 50.8        | 80.2 | 46.7            | 49.0        | 62.3 | 47.4            |
| 11.                        | 19:00-20:00 | 50.8                 | 63.8 | 50.0            | 49.6        | 65.8 | 48.0            | 49.4        | 63.0 | 48.4            |
| 12.                        | 20:00-21:00 | 51.1                 | 61.8 | 50.1            | 50.5        | 71.5 | 47.6            | 51.8        | 57.2 | 49.6            |
| 13.                        | 21:00-22:00 | 49.9                 | 65.8 | 48.2            | 50.3        | 63.7 | 47.9            | 50.0        | 64.6 | 49.5            |
| 14.                        | 22:00-23:00 | 50.5                 | 64.7 | 48.3            | 48.3        | 57.8 | 47.6            | 49.0        | 61.0 | 47.8            |
| 15.                        | 23:00-00:00 | 52.0                 | 70.9 | 49.4            | 48.9        | 61.6 | 48.0            | 50.1        | 55.6 | 49.3            |
| 16.                        | 00:00-01:00 | 51.6                 | 66.5 | 48.8            | 48.4        | 63.7 | 47.8            | 48.8        | 63.6 | 47.8            |
| 17.                        | 01:00-02:00 | 50.9                 | 65.7 | 47.5            | 49.0        | 58.2 | 48.4            | 48.3        | 53.6 | 47.5            |
| 18.                        | 02:00-03:00 | 50.4                 | 74.5 | 47.3            | 49.5        | 56.6 | 48.9            | 48.9        | 55.4 | 48.3            |
| 19.                        | 03:00-04:00 | 51.7                 | 75.6 | 48.1            | 49.3        | 54.1 | 48.6            | 49.0        | 51.5 | 48.4            |
| 20.                        | 04:00-05:00 | 49.8                 | 65.5 | 46.9            | 49.2        | 55.2 | 48.5            | 48.7        | 60.7 | 48.0            |
| 21.                        | 05:00-06:00 | 50.5                 | 67.0 | 48.3            | 49.5        | 59.6 | 48.6            | 48.7        | 57.5 | 48.1            |
| 22.                        | 06:00-07:00 | 51.0                 | 74.6 | 47.5            | 49.2        | 60.8 | 48.2            | 47.9        | 51.5 | 47.0            |
| 23.                        | 07:00-08:00 | 50.0                 | 67.0 | 48.1            | 49.3        | 56.9 | 48.4            | 48.9        | 57.6 | 48.2            |
| 24.                        | 08:00-09:00 | 51.1                 | 69.7 | 48.3            | 51.9        | 60.1 | 48.1            | 50.5        | 78.5 | 47.2            |
| Leq 24 hr                  |             | 52.3                 | -    | -               | 50.5        | -    | -               | 50.2        | -    | -               |
| Lmax                       |             | -                    | 75.6 | -               | -           | 88.8 | -               | -           | 81.0 | -               |
| Standard <sup>(1)(2)</sup> |             | 70                   | 115  | -               | 70          | 115  | -               | 70          | 115  | -               |
| Ldn                        |             | 57.7                 | -    | -               | 55.8        | -    | -               | 55.6        | -    | -               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 15 (1997)(B.E. 2540)

<sup>(2)</sup> Notification of the Ministry of Industry (2005)(B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/1-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(1/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 18-19/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 11.00-12.00 | 53.6  | 58.7                                    | 53.6                        | 51.3                                    | 2.3              |
| 2.                         | 12.00-13.00 | 54.1  | 55.0                                    | 54.1                        | 52.1                                    | 2.0              |
| 3.                         | 13.00-14.00 | 55.7  | 52.0                                    | 53.3                        | 50.0                                    | 3.3              |
| 4.                         | 14.00-15.00 | 55.7  | 51.3                                    | 53.8                        | 51.6                                    | 2.2              |
| 5.                         | 15.00-16.00 | 56.2  | 52.4                                    | 53.9                        | 51.7                                    | 2.2              |
| 6.                         | 16.00-17.00 | 56.9  | 50.8                                    | 55.7                        | 52.5                                    | 3.2              |
| 7.                         | 17.00-18.00 | 57.4  | 54.6                                    | 54.2                        | 53.2                                    | 1.0              |
| 8.                         | 18.00-19.00 | 56.4  | 50.7                                    | 55.0                        | 52.1                                    | 2.9              |
| 9.                         | 19.00-20.00 | 55.4  | 53.6                                    | 50.7                        | 52.3                                    | -1.6             |
| 10.                        | 20.00-21.00 | 55.9  | 51.6                                    | 53.9                        | 51.6                                    | 2.3              |
| 11.                        | 21.00-22.00 | 55.6  | 52.8                                    | 52.4                        | 52.6                                    | -0.2             |
| 12.                        | 22.00-22.05 | 55.6  | 53.5                                    | 51.4                        | 51.5                                    | -0.1             |
|                            | 22.05-22.10 | 55.3  | 52.7                                    | 54.8                        | 53.3                                    | 1.5              |
|                            | 22.10-22.15 | 55.8  | 53.7                                    | 54.6                        | 52.3                                    | 2.3              |
|                            | 22.15-22.20 | 54.9  | 58.6                                    | 54.9                        | 56.2                                    | -1.3             |
|                            | 22.20-22.25 | 55.3  | 55.6                                    | 55.3                        | 54.6                                    | 0.7              |
|                            | 22.25-22.30 | 55.4  | 53.9                                    | 53.1                        | 51.9                                    | 1.2              |
|                            | 22.30-22.35 | 55.4  | 53.1                                    | 54.5                        | 51.1                                    | 3.4              |
|                            | 22.35-22.40 | 55.3  | 52.6                                    | 55.0                        | 53.2                                    | 1.8              |
|                            | 22.40-22.45 | 55.5  | 53.7                                    | 53.8                        | 51.7                                    | 2.1              |
|                            | 22.45-22.50 | 55.2  | 53.3                                    | 53.7                        | 51.3                                    | 2.4              |
|                            | 22.50-22.55 | 55.1  | 53.1                                    | 53.8                        | 51.1                                    | 2.7              |
|                            | 22.55-23.00 | 54.6  | 55.1                                    | 54.6                        | 52.3                                    | 2.3              |
| 13.                        | 23.00-23.05 | 55.2  | 53.4                                    | 53.5                        | 51.4                                    | 2.1              |
|                            | 23.05-23.10 | 55.0  | 53.2                                    | 53.3                        | 51.2                                    | 2.1              |
|                            | 23.10-23.15 | 55.3  | 53.9                                    | 52.7                        | 51.9                                    | 0.8              |
|                            | 23.15-23.20 | 55.2  | 53.6                                    | 53.1                        | 51.6                                    | 1.5              |
|                            | 23.20-23.25 | 55.3  | 54.3                                    | 51.4                        | 52.3                                    | -0.9             |
|                            | 23.25-23.30 | 55.4  | 53.7                                    | 53.5                        | 51.7                                    | 1.8              |
|                            | 23.30-23.35 | 54.9  | 52.8                                    | 53.7                        | 53.4                                    | 0.3              |
|                            | 23.35-23.40 | 55.1  | 53.4                                    | 53.2                        | 51.4                                    | 1.8              |
|                            | 23.40-23.45 | 55.1  | 53.9                                    | 51.9                        | 51.9                                    | 0.0              |
|                            | 23.45-23.50 | 56.1  | 53.7                                    | 55.4                        | 51.7                                    | 3.7              |
|                            | 23.50-23.55 | 55.3  | 53.3                                    | 54.0                        | 51.3                                    | 2.7              |
|                            | 23.55-00.00 | 55.5  | 53.7                                    | 53.8                        | 51.7                                    | 2.1              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(1/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 18-19/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 14.                        | 00.00-00.05 | 55.2  | 52.8                                    | 54.5                        | 50.8                                    | 3.7              |
|                            | 00.05-00.10 | 55.2  | 51.8                                    | 55.5                        | 49.8                                    | 5.8              |
|                            | 00.10-00.15 | 55.4  | 53.0                                    | 54.7                        | 51.0                                    | 3.7              |
|                            | 00.15-00.20 | 55.3  | 52.2                                    | 55.4                        | 50.2                                    | 5.2              |
|                            | 00.20-00.25 | 55.1  | 53.3                                    | 53.4                        | 51.3                                    | 2.1              |
|                            | 00.25-00.30 | 54.6  | 52.0                                    | 54.1                        | 50.0                                    | 4.1              |
|                            | 00.30-00.35 | 55.9  | 57.4                                    | 55.9                        | 55.4                                    | 0.5              |
|                            | 00.35-00.40 | 55.4  | 52.5                                    | 55.3                        | 50.5                                    | 4.8              |
|                            | 00.40-00.45 | 55.5  | 52.8                                    | 55.2                        | 50.8                                    | 4.4              |
|                            | 00.45-00.50 | 55.2  | 52.7                                    | 54.6                        | 50.7                                    | 3.9              |
|                            | 00.50-00.55 | 55.1  | 52.2                                    | 55.0                        | 50.2                                    | 4.8              |
|                            | 00.55-01.00 | 54.6  | 51.9                                    | 54.3                        | 49.9                                    | 4.4              |
| 15.                        | 01.00-01.05 | 54.7  | 52.6                                    | 53.5                        | 50.6                                    | 2.9              |
|                            | 01.05-01.10 | 54.7  | 54.0                                    | 49.4                        | 52.0                                    | -2.6             |
|                            | 01.10-01.15 | 54.9  | 54.1                                    | 50.2                        | 52.1                                    | -1.9             |
|                            | 01.15-01.20 | 54.8  | 53.2                                    | 52.7                        | 51.2                                    | 1.5              |
|                            | 01.20-01.25 | 54.8  | 53.0                                    | 53.1                        | 51.0                                    | 2.1              |
|                            | 01.25-01.30 | 55.1  | 53.2                                    | 53.6                        | 51.2                                    | 2.4              |
|                            | 01.30-01.35 | 55.2  | 51.7                                    | 55.6                        | 50.7                                    | 4.9              |
|                            | 01.35-01.40 | 54.9  | 53.7                                    | 51.7                        | 51.7                                    | 0.0              |
|                            | 01.40-01.45 | 54.7  | 53.1                                    | 52.6                        | 51.1                                    | 1.5              |
|                            | 01.45-01.50 | 54.6  | 53.9                                    | 49.3                        | 51.9                                    | -2.6             |
|                            | 01.50-01.55 | 54.7  | 65.7                                    | 54.7                        | 63.7                                    | -9.0             |
|                            | 01.55-02.00 | 54.8  | 64.9                                    | 54.8                        | 62.9                                    | -8.1             |
| 16.                        | 02.00-02.05 | 54.6  | 57.3                                    | 54.6                        | 55.3                                    | -0.7             |
|                            | 02.05-02.10 | 54.8  | 55.9                                    | 54.8                        | 53.9                                    | 0.9              |
|                            | 02.10-02.15 | 54.8  | 52.7                                    | 53.6                        | 50.7                                    | 2.9              |
|                            | 02.15-02.20 | 55.0  | 52.1                                    | 54.9                        | 50.1                                    | 4.8              |
|                            | 02.20-02.25 | 55.0  | 55.4                                    | 55.0                        | 53.4                                    | 1.6              |
|                            | 02.25-02.30 | 54.9  | 53.0                                    | 53.4                        | 51.0                                    | 2.4              |
|                            | 02.30-02.35 | 55.0  | 52.1                                    | 54.9                        | 50.1                                    | 4.8              |
|                            | 02.35-02.40 | 54.7  | 51.8                                    | 54.6                        | 49.8                                    | 4.8              |
|                            | 02.40-02.45 | 54.8  | 51.8                                    | 54.8                        | 49.8                                    | 5.0              |
|                            | 02.45-02.50 | 55.6  | 53.5                                    | 54.4                        | 51.5                                    | 2.9              |
|                            | 02.50-02.55 | 60.5  | 58.2                                    | 59.6                        | 53.6                                    | 6.0              |
|                            | 02.55-03.00 | 56.3  | 53.9                                    | 55.6                        | 50.5                                    | 5.1              |
| 17.                        | 03.00-03.05 | 56.4  | 53.4                                    | 56.4                        | 51.4                                    | 5.0              |
|                            | 03.05-03.10 | 56.1  | 52.6                                    | 56.5                        | 50.6                                    | 5.9              |
|                            | 03.10-03.15 | 58.1  | 56.9                                    | 54.9                        | 52.1                                    | 2.8              |
|                            | 03.15-03.20 | 56.2  | 53.7                                    | 55.6                        | 50.3                                    | 5.3              |
|                            | 03.20-03.25 | 56.1  | 56.3                                    | 56.1                        | 54.2                                    | 1.9              |
|                            | 03.25-03.30 | 56.7  | 58.6                                    | 56.7                        | 53.0                                    | 3.7              |
|                            | 03.30-03.35 | 56.4  | 55.3                                    | 52.9                        | 53.3                                    | -0.4             |
|                            | 03.35-03.40 | 56.5  | 53.7                                    | 56.3                        | 51.7                                    | 4.6              |
|                            | 03.40-03.45 | 58.8  | 56.9                                    | 57.3                        | 52.3                                    | 5.0              |
|                            | 03.45-03.50 | 59.3  | 57.6                                    | 57.4                        | 53.0                                    | 4.4              |
|                            | 03.50-03.55 | 60.0  | 56.7                                    | 60.3                        | 52.1                                    | 8.2              |
|                            | 03.55-04.00 | 58.9  | 55.9                                    | 58.9                        | 51.3                                    | 7.6              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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## TEST REPORT

(1/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 18-19/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 18.                        | 04.00-04.05 | 57.6  | 54.6                                    | 57.6                        | 52.6                                    | 5.0              |
|                            | 04.05-04.10 | 57.6  | 55.6                                    | 56.3                        | 51.0                                    | 5.3              |
|                            | 04.10-04.15 | 58.5  | 55.6                                    | 58.4                        | 51.0                                    | 7.4              |
|                            | 04.15-04.20 | 56.7  | 53.5                                    | 56.9                        | 51.5                                    | 5.4              |
|                            | 04.20-04.25 | 56.7  | 53.1                                    | 57.2                        | 52.2                                    | 5.0              |
|                            | 04.25-04.30 | 57.1  | 54.9                                    | 56.1                        | 52.9                                    | 3.2              |
|                            | 04.30-04.35 | 56.9  | 54.6                                    | 56.0                        | 52.6                                    | 3.4              |
|                            | 04.35-04.40 | 57.3  | 59.2                                    | 57.3                        | 57.2                                    | 0.1              |
|                            | 04.40-04.45 | 56.9  | 66.1                                    | 56.9                        | 64.1                                    | -7.2             |
|                            | 04.45-04.50 | 56.6  | 59.6                                    | 56.6                        | 57.6                                    | -1.0             |
|                            | 04.50-04.55 | 57.9  | 55.0                                    | 57.8                        | 53.0                                    | 4.8              |
|                            | 04.55-05.00 | 58.7  | 56.9                                    | 57.0                        | 52.3                                    | 4.7              |
| 19.                        | 05.00-05.05 | 57.4  | 54.6                                    | 57.2                        | 52.6                                    | 4.6              |
|                            | 05.05-05.10 | 57.4  | 55.2                                    | 56.4                        | 53.2                                    | 3.2              |
|                            | 05.10-05.15 | 56.3  | 54.9                                    | 53.7                        | 52.9                                    | 0.8              |
|                            | 05.15-05.20 | 56.1  | 53.9                                    | 55.1                        | 51.9                                    | 3.2              |
|                            | 05.20-05.25 | 57.0  | 54.8                                    | 56.0                        | 52.8                                    | 3.2              |
|                            | 05.25-05.30 | 57.0  | 61.2                                    | 57.0                        | 59.2                                    | -2.2             |
|                            | 05.30-05.35 | 57.4  | 63.1                                    | 57.4                        | 61.1                                    | -3.7             |
|                            | 05.35-05.40 | 56.4  | 62.3                                    | 56.4                        | 60.3                                    | -3.9             |
|                            | 05.40-05.45 | 56.7  | 56.0                                    | 51.4                        | 54.0                                    | -2.6             |
|                            | 05.45-05.50 | 55.9  | 59.3                                    | 55.9                        | 57.3                                    | -1.4             |
|                            | 05.50-05.55 | 56.1  | 59.9                                    | 56.1                        | 57.9                                    | -1.8             |
|                            | 05.55-06.00 | 56.6  | 59.6                                    | 56.6                        | 57.6                                    | -1.0             |
| 20.                        | 06.00-07.00 | 56.4  | 52.4                                    | 54.2                        | 52.8                                    | 1.4              |
| 21.                        | 07.00-08.00 | 56.5  | 53.4                                    | 53.6                        | 50.7                                    | 3.0              |
| 22.                        | 08.00-09.00 | 55.9  | 53.9                                    | 51.7                        | 52.1                                    | -0.4             |
| 23.                        | 09.00-10.00 | 56.2  | 55.0                                    | 50.0                        | 52.5                                    | -2.5             |
| 24.                        | 10.00-11.00 | 55.0  | 56.0                                    | 55.0                        | 51.5                                    | 3.5              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard: <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/2-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(2/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 19-20/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 11.00-12.00 | 55.0  | 58.7                                    | 55.0                        | 51.3                                    | 3.7              |
| 2.                         | 12.00-13.00 | 55.7  | 55.0                                    | 47.7                        | 52.1                                    | -4.4             |
| 3.                         | 13.00-14.00 | 55.9  | 52.0                                    | 53.7                        | 50.0                                    | 3.7              |
| 4.                         | 14.00-15.00 | 55.8  | 51.3                                    | 53.9                        | 51.6                                    | 2.3              |
| 5.                         | 15.00-16.00 | 57.6  | 52.4                                    | 56.1                        | 51.7                                    | 4.4              |
| 6.                         | 16.00-17.00 | 57.2  | 50.8                                    | 56.1                        | 52.5                                    | 3.6              |
| 7.                         | 17.00-18.00 | 57.2  | 54.6                                    | 53.7                        | 53.2                                    | 0.5              |
| 8.                         | 18.00-19.00 | 56.9  | 50.7                                    | 55.7                        | 52.1                                    | 3.6              |
| 9.                         | 19.00-20.00 | 57.2  | 53.6                                    | 54.8                        | 52.3                                    | 2.5              |
| 10.                        | 20.00-21.00 | 56.6  | 51.6                                    | 55.0                        | 51.6                                    | 3.4              |
| 11.                        | 21.00-22.00 | 56.9  | 52.8                                    | 54.8                        | 52.6                                    | 2.2              |
| 12.                        | 22.00-22.05 | 57.3  | 53.5                                    | 58.0                        | 51.5                                    | 6.5              |
|                            | 22.05-22.10 | 57.2  | 52.7                                    | 58.3                        | 53.3                                    | 5.0              |
|                            | 22.10-22.15 | 56.7  | 53.7                                    | 56.7                        | 52.3                                    | 4.4              |
|                            | 22.15-22.20 | 64.2  | 58.6                                    | 65.8                        | 56.2                                    | 9.6              |
|                            | 22.20-22.25 | 62.3  | 55.6                                    | 64.3                        | 54.6                                    | 9.7              |
|                            | 22.25-22.30 | 57.7  | 53.9                                    | 58.4                        | 51.9                                    | 6.5              |
|                            | 22.30-22.35 | 56.9  | 53.1                                    | 57.6                        | 51.1                                    | 6.5              |
|                            | 22.35-22.40 | 56.8  | 52.6                                    | 57.7                        | 53.2                                    | 4.5              |
|                            | 22.40-22.45 | 57.5  | 53.7                                    | 58.2                        | 51.7                                    | 6.5              |
|                            | 22.45-22.50 | 57.7  | 53.3                                    | 58.7                        | 51.3                                    | 7.4              |
|                            | 22.50-22.55 | 57.2  | 53.1                                    | 58.1                        | 51.1                                    | 7.0              |
|                            | 22.55-23.00 | 57.0  | 55.1                                    | 55.5                        | 52.3                                    | 3.2              |
| 13.                        | 23.00-23.05 | 56.7  | 53.4                                    | 57.0                        | 51.4                                    | 5.6              |
|                            | 23.05-23.10 | 56.4  | 53.2                                    | 56.6                        | 51.2                                    | 5.4              |
|                            | 23.10-23.15 | 56.8  | 53.9                                    | 56.7                        | 51.9                                    | 4.8              |
|                            | 23.15-23.20 | 57.1  | 53.6                                    | 57.5                        | 51.6                                    | 5.9              |
|                            | 23.20-23.25 | 56.7  | 54.3                                    | 56.0                        | 52.3                                    | 3.7              |
|                            | 23.25-23.30 | 57.2  | 53.7                                    | 57.6                        | 51.7                                    | 5.9              |
|                            | 23.30-23.35 | 57.2  | 52.8                                    | 58.2                        | 53.4                                    | 4.8              |
|                            | 23.35-23.40 | 57.1  | 53.4                                    | 57.7                        | 51.4                                    | 6.3              |
|                            | 23.40-23.45 | 57.6  | 53.9                                    | 58.2                        | 51.9                                    | 6.3              |
|                            | 23.45-23.50 | 57.7  | 53.7                                    | 58.5                        | 51.7                                    | 6.8              |
|                            | 23.50-23.55 | 57.5  | 53.3                                    | 58.4                        | 51.3                                    | 7.1              |
|                            | 23.55-00.00 | 56.6  | 53.7                                    | 56.5                        | 51.7                                    | 4.8              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited

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## TEST REPORT

(2/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 19-20/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 14.                        | 00.00-00.05 | 57.1  | 52.8                                    | 58.1                        | 50.8                                    | 7.3              |
|                            | 00.05-00.10 | 56.5  | 51.8                                    | 57.7                        | 49.8                                    | 7.9              |
|                            | 00.10-00.15 | 56.1  | 53.0                                    | 56.2                        | 51.0                                    | 5.2              |
|                            | 00.15-00.20 | 56.6  | 52.2                                    | 57.6                        | 50.2                                    | 7.4              |
|                            | 00.20-00.25 | 56.8  | 53.3                                    | 57.2                        | 51.3                                    | 5.9              |
|                            | 00.25-00.30 | 57.3  | 52.0                                    | 58.8                        | 50.0                                    | 8.8              |
|                            | 00.30-00.35 | 57.1  | 57.4                                    | 57.1                        | 55.4                                    | 1.7              |
|                            | 00.35-00.40 | 56.3  | 52.5                                    | 57.0                        | 50.5                                    | 6.5              |
|                            | 00.40-00.45 | 57.0  | 52.8                                    | 57.9                        | 50.8                                    | 7.1              |
|                            | 00.45-00.50 | 57.2  | 52.7                                    | 58.3                        | 50.7                                    | 7.6              |
| 15.                        | 00.50-00.55 | 57.1  | 52.2                                    | 58.4                        | 50.2                                    | 8.2              |
|                            | 00.55-01.00 | 57.4  | 51.9                                    | 59.0                        | 49.9                                    | 9.1              |
|                            | 01.00-01.05 | 56.8  | 52.6                                    | 57.7                        | 50.6                                    | 7.1              |
|                            | 01.05-01.10 | 56.7  | 54.0                                    | 56.4                        | 52.0                                    | 4.4              |
|                            | 01.10-01.15 | 57.0  | 54.1                                    | 56.9                        | 52.1                                    | 4.8              |
|                            | 01.15-01.20 | 57.4  | 53.2                                    | 58.3                        | 51.2                                    | 7.1              |
|                            | 01.20-01.25 | 56.8  | 53.0                                    | 57.5                        | 51.0                                    | 6.5              |
|                            | 01.25-01.30 | 57.5  | 53.2                                    | 58.5                        | 51.2                                    | 7.3              |
|                            | 01.30-01.35 | 58.3  | 51.7                                    | 60.2                        | 50.7                                    | 9.5              |
|                            | 01.35-01.40 | 58.3  | 53.7                                    | 59.5                        | 51.7                                    | 7.8              |
| 16.                        | 01.40-01.45 | 57.6  | 53.1                                    | 58.7                        | 51.1                                    | 7.6              |
|                            | 01.45-01.50 | 57.5  | 53.9                                    | 58.0                        | 51.9                                    | 6.1              |
|                            | 01.50-01.55 | 56.8  | 65.7                                    | 56.8                        | 63.7                                    | -6.9             |
|                            | 01.55-02.00 | 57.6  | 64.9                                    | 57.6                        | 62.9                                    | -5.3             |
|                            | 02.00-02.05 | 57.4  | 57.3                                    | 44.0                        | 55.3                                    | -11.3            |
|                            | 02.05-02.10 | 57.1  | 55.9                                    | 53.9                        | 53.9                                    | 0.0              |
|                            | 02.10-02.15 | 56.8  | 52.7                                    | 57.7                        | 50.7                                    | 7.0              |
|                            | 02.15-02.20 | 56.9  | 52.1                                    | 58.2                        | 50.1                                    | 8.0              |
|                            | 02.20-02.25 | 56.9  | 55.4                                    | 54.6                        | 53.4                                    | 1.2              |
|                            | 02.25-02.30 | 57.5  | 53.0                                    | 58.6                        | 51.0                                    | 7.6              |
| 17.                        | 02.30-02.35 | 57.2  | 52.1                                    | 58.6                        | 50.1                                    | 8.5              |
|                            | 02.35-02.40 | 57.4  | 51.8                                    | 59.0                        | 49.8                                    | 9.2              |
|                            | 02.40-02.45 | 57.7  | 51.8                                    | 59.4                        | 49.8                                    | 9.6              |
|                            | 02.45-02.50 | 56.7  | 53.5                                    | 56.9                        | 51.5                                    | 5.4              |
|                            | 02.50-02.55 | 56.4  | 58.2                                    | 56.4                        | 53.6                                    | 2.8              |
|                            | 02.55-03.00 | 55.8  | 53.9                                    | 54.3                        | 50.5                                    | 3.8              |
|                            | 03.00-03.05 | 55.5  | 53.4                                    | 54.3                        | 51.4                                    | 2.9              |
|                            | 03.05-03.10 | 55.9  | 52.6                                    | 56.2                        | 50.6                                    | 5.6              |
|                            | 03.10-03.15 | 56.2  | 56.9                                    | 56.2                        | 52.1                                    | 4.1              |
|                            | 03.15-03.20 | 56.6  | 53.7                                    | 56.5                        | 50.3                                    | 6.2              |
|                            | 03.20-03.25 | 62.3  | 56.3                                    | 64.0                        | 54.2                                    | 9.8              |
|                            | 03.25-03.30 | 62.1  | 58.6                                    | 62.5                        | 53.0                                    | 9.5              |
|                            | 03.30-03.35 | 59.5  | 55.3                                    | 60.4                        | 53.3                                    | 7.1              |
|                            | 03.35-03.40 | 58.7  | 53.7                                    | 60.0                        | 51.7                                    | 8.4              |
|                            | 03.40-03.45 | 58.4  | 56.9                                    | 56.1                        | 52.3                                    | 3.8              |
|                            | 03.45-03.50 | 58.6  | 57.6                                    | 54.7                        | 53.0                                    | 1.7              |
|                            | 03.50-03.55 | 57.9  | 56.7                                    | 54.7                        | 52.1                                    | 2.6              |
|                            | 03.55-04.00 | 59.0  | 55.9                                    | 59.1                        | 51.3                                    | 7.8              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(2/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 19-20/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 18.                        | 04.00-04.05 | 60.1  | 54.6                                    | 61.7                        | 52.6                                    | 9.1              |
|                            | 04.05-04.10 | 58.0  | 55.6                                    | 57.3                        | 51.0                                    | 6.3              |
|                            | 04.10-04.15 | 58.0  | 55.6                                    | 57.3                        | 51.0                                    | 6.3              |
|                            | 04.15-04.20 | 57.6  | 53.5                                    | 58.5                        | 51.5                                    | 7.0              |
|                            | 04.20-04.25 | 58.2  | 53.1                                    | 59.6                        | 52.2                                    | 7.4              |
|                            | 04.25-04.30 | 57.2  | 54.9                                    | 56.3                        | 52.9                                    | 3.4              |
|                            | 04.30-04.35 | 57.5  | 54.6                                    | 57.4                        | 52.6                                    | 4.8              |
|                            | 04.35-04.40 | 57.0  | 59.2                                    | 57.0                        | 57.2                                    | -0.2             |
|                            | 04.40-04.45 | 57.0  | 66.1                                    | 57.0                        | 64.1                                    | -7.1             |
|                            | 04.45-04.50 | 57.0  | 59.6                                    | 57.0                        | 57.6                                    | -0.6             |
| 19.                        | 04.50-04.55 | 59.1  | 55.0                                    | 60.0                        | 53.0                                    | 7.0              |
|                            | 04.55-05.00 | 58.8  | 56.9                                    | 57.3                        | 52.3                                    | 5.0              |
|                            | 05.00-05.05 | 58.5  | 54.6                                    | 59.2                        | 52.6                                    | 6.6              |
|                            | 05.05-05.10 | 58.9  | 55.2                                    | 59.5                        | 53.2                                    | 6.3              |
|                            | 05.10-05.15 | 58.5  | 54.9                                    | 59.0                        | 52.9                                    | 6.1              |
|                            | 05.15-05.20 | 58.0  | 53.9                                    | 58.9                        | 51.9                                    | 7.0              |
|                            | 05.20-05.25 | 57.7  | 54.8                                    | 57.6                        | 52.8                                    | 4.8              |
|                            | 05.25-05.30 | 58.2  | 61.2                                    | 58.2                        | 59.2                                    | -1.0             |
|                            | 05.30-05.35 | 58.8  | 63.1                                    | 58.8                        | 61.1                                    | -2.3             |
|                            | 05.35-05.40 | 57.1  | 62.3                                    | 57.1                        | 60.3                                    | -3.2             |
| 20.                        | 05.40-05.45 | 57.4  | 56.0                                    | 54.8                        | 54.0                                    | 0.8              |
|                            | 05.45-05.50 | 58.5  | 59.3                                    | 58.5                        | 57.3                                    | 1.2              |
|                            | 05.50-05.55 | 57.7  | 59.9                                    | 57.7                        | 57.9                                    | -0.2             |
|                            | 05.55-06.00 | 57.3  | 59.6                                    | 57.3                        | 57.6                                    | -0.3             |
|                            | 06.00-07.00 | 58.4  | 52.4                                    | 57.1                        | 52.8                                    | 4.3              |
|                            | 07.00-08.00 | 57.9  | 53.4                                    | 56.0                        | 50.7                                    | 5.3              |
|                            | 08.00-09.00 | 56.3  | 53.9                                    | 52.7                        | 52.1                                    | 0.6              |
|                            | 09.00-10.00 | 56.6  | 55.0                                    | 51.3                        | 52.5                                    | -1.2             |
|                            | 10.00-11.00 | 56.1  | 56.0                                    | 36.8                        | 51.5                                    | -14.8            |
|                            |             |   |   |                             |   |                  |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/3-21  
 Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
 Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
 Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
 Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(3/1-3)

| Item                        | Time        | Result (dB(A))                                    |   |                             |   |                  |
|-----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                             |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                             |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                             |             | 20-21/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                          | 11.00-12.00 | 56.0  | 58.7                                    | 56.0                        | 51.3                                    | 4.7              |
| 2.                          | 12.00-13.00 | 56.7  | 55.0                                    | 51.8                        | 52.1                                    | -0.3             |
| 3.                          | 13.00-14.00 | 56.2  | 52.0                                    | 54.1                        | 50.0                                    | 4.1              |
| 4.                          | 14.00-15.00 | 59.0  | 51.3                                    | 58.2                        | 51.6                                    | 6.6              |
| 5.                          | 15.00-16.00 | 61.2  | 52.4                                    | 60.6                        | 51.7                                    | 8.9              |
| 6.                          | 16.00-17.00 | 57.6  | 50.8                                    | 56.6                        | 52.5                                    | 4.1              |
| 7.                          | 17.00-18.00 | 58.4  | 54.6                                    | 56.0                        | 53.2                                    | 2.8              |
| 8.                          | 18.00-19.00 | 58.7  | 50.7                                    | 58.0                        | 52.1                                    | 5.9              |
| 9.                          | 19.00-20.00 | 56.5  | 53.6                                    | 53.4                        | 52.3                                    | 1.1              |
| 10.                         | 20.00-21.00 | 55.0  | 51.6                                    | 52.3                        | 51.6                                    | 0.7              |
| 11.                         | 21.00-22.00 | 54.8  | 52.8                                    | 50.4                        | 52.6                                    | -2.2             |
| 12.                         | 22.00-22.05 | 54.7  | 53.5                                    | 51.5                        | 51.5                                    | 0.0              |
|                             | 22.05-22.10 | 54.8  | 52.7                                    | 53.6                        | 53.3                                    | 0.3              |
|                             | 22.10-22.15 | 54.2  | 53.7                                    | 47.6                        | 52.3                                    | -4.7             |
|                             | 22.15-22.20 | 56.7  | 58.6                                    | 56.7                        | 56.2                                    | 0.5              |
|                             | 22.20-22.25 | 54.2  | 55.6                                    | 54.2                        | 54.6                                    | -0.4             |
|                             | 22.25-22.30 | 54.2  | 53.9                                    | 45.4                        | 51.9                                    | -6.5             |
|                             | 22.30-22.35 | 54.1  | 53.1                                    | 50.2                        | 51.1                                    | -0.9             |
|                             | 22.35-22.40 | 54.6  | 52.6                                    | 53.3                        | 53.2                                    | 0.1              |
|                             | 22.40-22.45 | 54.0  | 53.7                                    | 45.2                        | 51.7                                    | -6.5             |
|                             | 22.45-22.50 | 54.0  | 53.3                                    | 48.7                        | 51.3                                    | -2.6             |
|                             | 22.50-22.55 | 54.8  | 53.1                                    | 52.9                        | 51.1                                    | 1.8              |
|                             | 22.55-23.00 | 54.2  | 55.1                                    | 54.2                        | 52.3                                    | 1.9              |
| 13.                         | 23.00-23.05 | 54.6  | 53.4                                    | 51.4                        | 51.4                                    | 0.0              |
|                             | 23.05-23.10 | 54.5  | 53.2                                    | 51.6                        | 51.2                                    | 0.4              |
|                             | 23.10-23.15 | 56.3  | 53.9                                    | 55.6                        | 51.9                                    | 3.7              |
|                             | 23.15-23.20 | 58.0  | 53.6                                    | 59.0                        | 51.6                                    | 7.4              |
|                             | 23.20-23.25 | 53.9  | 54.3                                    | 53.9                        | 52.3                                    | 1.6              |
|                             | 23.25-23.30 | 55.3  | 53.7                                    | 53.2                        | 51.7                                    | 1.5              |
|                             | 23.30-23.35 | 54.2  | 52.8                                    | 51.6                        | 53.4                                    | -1.8             |
|                             | 23.35-23.40 | 54.0  | 53.4                                    | 48.1                        | 51.4                                    | -3.3             |
|                             | 23.40-23.45 | 54.9  | 53.9                                    | 51.0                        | 51.9                                    | -0.9             |
|                             | 23.45-23.50 | 53.1  | 53.7                                    | 53.1                        | 51.7                                    | 1.4              |
|                             | 23.50-23.55 | 51.7  | 53.3                                    | 51.7                        | 51.3                                    | 0.4              |
|                             | 23.55-00.00 | 52.5  | 53.7                                    | 52.5                        | 51.7                                    | 0.8              |
| Standard <sup>(1)/(2)</sup> |             |   |   |                             |   | 10               |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(3/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 20-21/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 14.                        | 00.00-00.05 | 50.8  | 52.8                                    | 50.8                        | 50.8                                    | 0.0              |
|                            | 00.05-00.10 | 51.1  | 51.8                                    | 51.1                        | 49.8                                    | 1.3              |
|                            | 00.10-00.15 | 51.0  | 53.0                                    | 51.0                        | 51.0                                    | 0.0              |
|                            | 00.15-00.20 | 51.3  | 52.2                                    | 51.3                        | 50.2                                    | 1.1              |
|                            | 00.20-00.25 | 51.0  | 53.3                                    | 51.0                        | 51.3                                    | -0.3             |
|                            | 00.25-00.30 | 49.7  | 52.0                                    | 49.7                        | 50.0                                    | -0.3             |
|                            | 00.30-00.35 | 49.9  | 57.4                                    | 49.9                        | 55.4                                    | -5.5             |
|                            | 00.35-00.40 | 50.0  | 52.5                                    | 50.0                        | 50.5                                    | -0.5             |
|                            | 00.40-00.45 | 51.8  | 52.8                                    | 51.8                        | 50.8                                    | 1.0              |
|                            | 00.45-00.50 | 52.0  | 52.7                                    | 52.0                        | 50.7                                    | 1.3              |
|                            | 00.50-00.55 | 52.0  | 52.2                                    | 52.0                        | 50.2                                    | 1.8              |
|                            | 00.55-01.00 | 51.6  | 51.9                                    | 51.6                        | 49.9                                    | 1.7              |
| 15.                        | 01.00-01.05 | 51.8  | 52.6                                    | 51.8                        | 50.6                                    | 1.2              |
|                            | 01.05-01.10 | 52.3  | 54.0                                    | 52.3                        | 52.0                                    | 0.3              |
|                            | 01.10-01.15 | 52.0  | 54.1                                    | 52.0                        | 52.1                                    | -0.1             |
|                            | 01.15-01.20 | 52.1  | 53.2                                    | 52.1                        | 51.2                                    | 0.9              |
|                            | 01.20-01.25 | 52.0  | 53.0                                    | 52.0                        | 51.0                                    | 1.0              |
|                            | 01.25-01.30 | 50.8  | 53.2                                    | 50.8                        | 51.2                                    | -0.4             |
|                            | 01.30-01.35 | 50.5  | 51.7                                    | 50.5                        | 50.7                                    | -0.2             |
|                            | 01.35-01.40 | 50.5  | 53.7                                    | 50.5                        | 51.7                                    | -1.2             |
|                            | 01.40-01.45 | 50.5  | 53.1                                    | 50.5                        | 51.1                                    | -0.6             |
|                            | 01.45-01.50 | 51.8  | 53.9                                    | 51.8                        | 51.9                                    | -0.1             |
|                            | 01.50-01.55 | 51.3  | 65.7                                    | 51.3                        | 63.7                                    | -12.4            |
|                            | 01.55-02.00 | 51.7  | 64.9                                    | 51.7                        | 62.9                                    | -11.2            |
| 16.                        | 02.00-02.05 | 51.8  | 57.3                                    | 51.8                        | 55.3                                    | -3.5             |
|                            | 02.05-02.10 | 52.4  | 55.9                                    | 52.4                        | 53.9                                    | -1.5             |
|                            | 02.10-02.15 | 55.0  | 52.7                                    | 54.1                        | 50.7                                    | 3.4              |
|                            | 02.15-02.20 | 52.4  | 52.1                                    | 43.6                        | 50.1                                    | -6.5             |
|                            | 02.20-02.25 | 51.9  | 55.4                                    | 51.9                        | 53.4                                    | -1.5             |
|                            | 02.25-02.30 | 52.1  | 53.0                                    | 52.1                        | 51.0                                    | 1.1              |
|                            | 02.30-02.35 | 52.2  | 52.1                                    | 38.8                        | 50.1                                    | -11.3            |
|                            | 02.35-02.40 | 52.6  | 51.8                                    | 47.9                        | 49.8                                    | -1.9             |
|                            | 02.40-02.45 | 52.5  | 51.8                                    | 47.2                        | 49.8                                    | -2.6             |
|                            | 02.45-02.50 | 52.4  | 53.5                                    | 52.4                        | 51.5                                    | 0.9              |
|                            | 02.50-02.55 | 52.7  | 58.2                                    | 52.7                        | 53.6                                    | -0.9             |
|                            | 02.55-03.00 | 52.5  | 53.9                                    | 52.5                        | 50.5                                    | 2.0              |
| 17.                        | 03.00-03.05 | 52.8  | 53.4                                    | 52.8                        | 51.4                                    | 1.4              |
|                            | 03.05-03.10 | 54.5  | 52.6                                    | 53.0                        | 50.6                                    | 2.4              |
|                            | 03.10-03.15 | 53.0  | 56.9                                    | 53.0                        | 52.1                                    | 0.9              |
|                            | 03.15-03.20 | 56.1  | 53.7                                    | 55.4                        | 50.3                                    | 5.1              |
|                            | 03.20-03.25 | 56.7  | 56.3                                    | 49.1                        | 54.2                                    | -5.1             |
|                            | 03.25-03.30 | 57.1  | 58.6                                    | 57.1                        | 53.0                                    | 4.1              |
|                            | 03.30-03.35 | 56.0  | 55.3                                    | 50.7                        | 53.3                                    | -2.6             |
|                            | 03.35-03.40 | 56.8  | 53.7                                    | 56.9                        | 51.7                                    | 5.2              |
|                            | 03.40-03.45 | 57.2  | 56.9                                    | 48.4                        | 52.3                                    | -3.9             |
|                            | 03.45-03.50 | 57.3  | 57.6                                    | 57.3                        | 53.0                                    | 4.3              |
|                            | 03.50-03.55 | 55.9  | 56.7                                    | 55.9                        | 52.1                                    | 3.8              |
|                            | 03.55-04.00 | 55.1  | 55.9                                    | 55.1                        | 51.3                                    | 3.8              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(3/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดหน้าควปัสัก                                    |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 20-21/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 18.                        | 04.00-04.05 | 56.1  | 54.6                                    | 53.8                        | 52.6                                    | 1.2              |
|                            | 04.05-04.10 | 55.8  | 55.6                                    | 45.3                        | 51.0                                    | -5.7             |
|                            | 04.10-04.15 | 54.5  | 55.6                                    | 54.5                        | 51.0                                    | 3.5              |
|                            | 04.15-04.20 | 53.5  | 53.5                                    | 53.5                        | 51.5                                    | 2.0              |
|                            | 04.20-04.25 | 54.8  | 53.1                                    | 52.9                        | 52.2                                    | 0.7              |
|                            | 04.25-04.30 | 55.9  | 54.9                                    | 52.0                        | 52.9                                    | -0.9             |
|                            | 04.30-04.35 | 54.8  | 54.6                                    | 44.3                        | 52.6                                    | -8.3             |
|                            | 04.35-04.40 | 54.1  | 59.2                                    | 54.1                        | 57.2                                    | -3.1             |
|                            | 04.40-04.45 | 52.5  | 66.1                                    | 52.5                        | 64.1                                    | -11.6            |
|                            | 04.45-04.50 | 52.5  | 59.6                                    | 52.5                        | 57.6                                    | -5.1             |
| 19.                        | 04.50-04.55 | 51.9  | 55.0                                    | 51.9                        | 53.0                                    | -1.1             |
|                            | 04.55-05.00 | 53.9  | 56.9                                    | 53.9                        | 52.3                                    | 1.6              |
|                            | 05.00-05.05 | 53.8  | 54.6                                    | 53.8                        | 52.6                                    | 1.2              |
|                            | 05.05-05.10 | 57.0  | 55.2                                    | 55.3                        | 53.2                                    | 2.1              |
|                            | 05.10-05.15 | 55.3  | 54.9                                    | 47.7                        | 52.9                                    | -5.2             |
|                            | 05.15-05.20 | 51.9  | 53.9                                    | 51.9                        | 51.9                                    | 0.0              |
|                            | 05.20-05.25 | 52.5  | 54.8                                    | 52.5                        | 52.8                                    | -0.3             |
|                            | 05.25-05.30 | 51.9  | 61.2                                    | 51.9                        | 59.2                                    | -7.3             |
|                            | 05.30-05.35 | 51.5  | 63.1                                    | 51.5                        | 61.1                                    | -9.6             |
|                            | 05.35-05.40 | 51.7  | 62.3                                    | 51.7                        | 60.3                                    | -8.6             |
| 20.                        | 05.40-05.45 | 55.9  | 56.0                                    | 55.9                        | 54.0                                    | 1.9              |
|                            | 05.45-05.50 | 53.4  | 59.3                                    | 53.4                        | 57.3                                    | -3.9             |
|                            | 05.50-05.55 | 52.0  | 59.9                                    | 52.0                        | 57.9                                    | -5.9             |
|                            | 05.55-06.00 | 54.8  | 59.6                                    | 54.8                        | 57.6                                    | -2.8             |
|                            | 06.00-07.00 | 53.7  | 52.4                                    | 47.5                        | 52.8                                    | -5.3             |
|                            | 07.00-08.00 | 54.2  | 53.4                                    | 46.3                        | 50.7                                    | -4.3             |
|                            | 08.00-09.00 | 52.4  | 53.9                                    | 52.4                        | 52.1                                    | 0.4              |
|                            | 09.00-10.00 | 54.0  | 55.0                                    | 54.0                        | 52.5                                    | 1.5              |
|                            | 10.00-11.00 | 54.4  | 56.0                                    | 54.4                        | 51.5                                    | 2.9              |
|                            |             |   |   |                             |   |                  |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/4-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(4/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 21-22/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 11.00-12.00 | 55.6  | 58.7                                    | 55.6                        | 51.3                                    | 4.3              |
| 2.                         | 12.00-13.00 | 54.6  | 55.0                                    | 54.6                        | 52.1                                    | 2.4              |
| 3.                         | 13.00-14.00 | 54.6  | 52.0                                    | 51.1                        | 50.0                                    | 1.1              |
| 4.                         | 14.00-15.00 | 55.1  | 51.3                                    | 52.8                        | 51.6                                    | 1.2              |
| 5.                         | 15.00-16.00 | 54.1  | 52.4                                    | 49.2                        | 51.7                                    | -2.5             |
| 6.                         | 16.00-17.00 | 53.6  | 50.8                                    | 50.5                        | 52.5                                    | -2.0             |
| 7.                         | 17.00-18.00 | 54.5  | 54.6                                    | 54.5                        | 53.2                                    | 1.3              |
| 8.                         | 18.00-19.00 | 57.2  | 50.7                                    | 56.1                        | 52.1                                    | 4.0              |
| 9.                         | 19.00-20.00 | 52.1  | 53.6                                    | 52.1                        | 52.3                                    | -0.2             |
| 10.                        | 20.00-21.00 | 51.8  | 51.6                                    | 38.2                        | 51.6                                    | -13.4            |
| 11.                        | 21.00-22.00 | 50.3  | 52.8                                    | 50.3                        | 52.6                                    | -2.3             |
| 12.                        | 22.00-22.05 | 49.2  | 53.5                                    | 49.2                        | 51.5                                    | -2.3             |
|                            | 22.05-22.10 | 47.9  | 52.7                                    | 47.9                        | 53.3                                    | -5.4             |
|                            | 22.10-22.15 | 49.6  | 53.7                                    | 49.6                        | 52.3                                    | -2.7             |
|                            | 22.15-22.20 | 50.5  | 58.6                                    | 50.5                        | 56.2                                    | -5.7             |
|                            | 22.20-22.25 | 49.0  | 55.6                                    | 49.0                        | 54.6                                    | -5.6             |
|                            | 22.25-22.30 | 50.9  | 53.9                                    | 50.9                        | 51.9                                    | -1.0             |
|                            | 22.30-22.35 | 49.1  | 53.1                                    | 49.1                        | 51.1                                    | -2.0             |
|                            | 22.35-22.40 | 49.9  | 52.6                                    | 49.9                        | 53.2                                    | -3.3             |
|                            | 22.40-22.45 | 48.5  | 53.7                                    | 48.5                        | 51.7                                    | -3.2             |
|                            | 22.45-22.50 | 49.2  | 53.3                                    | 49.2                        | 51.3                                    | -2.1             |
|                            | 22.50-22.55 | 52.0  | 53.1                                    | 52.0                        | 51.1                                    | 0.9              |
|                            | 22.55-23.00 | 54.4  | 55.1                                    | 54.4                        | 52.3                                    | 2.1              |
| 13.                        | 23.00-23.05 | 47.4  | 53.4                                    | 47.4                        | 51.4                                    | -4.0             |
|                            | 23.05-23.10 | 47.7  | 53.2                                    | 47.7                        | 51.2                                    | -3.5             |
|                            | 23.10-23.15 | 49.7  | 53.9                                    | 49.7                        | 51.9                                    | -2.2             |
|                            | 23.15-23.20 | 51.9  | 53.6                                    | 51.9                        | 51.6                                    | 0.3              |
|                            | 23.20-23.25 | 48.6  | 54.3                                    | 48.6                        | 52.3                                    | -3.7             |
|                            | 23.25-23.30 | 49.9  | 53.7                                    | 49.9                        | 51.7                                    | -1.8             |
|                            | 23.30-23.35 | 54.8  | 52.8                                    | 53.5                        | 53.4                                    | 0.1              |
|                            | 23.35-23.40 | 47.5  | 53.4                                    | 47.5                        | 51.4                                    | -3.9             |
|                            | 23.40-23.45 | 52.5  | 53.9                                    | 52.5                        | 51.9                                    | 0.6              |
|                            | 23.45-23.50 | 47.6  | 53.7                                    | 47.6                        | 51.7                                    | -4.1             |
|                            | 23.50-23.55 | 47.3  | 53.3                                    | 47.3                        | 51.3                                    | -4.0             |
|                            | 23.55-00.00 | 48.1  | 53.7                                    | 48.1                        | 51.7                                    | -3.6             |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(4/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 21-22/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 14.                        | 00.00-00.05 | 49.5  | 52.8                                    | 49.5                        | 50.8                                    | -1.3             |
|                            | 00.05-00.10 | 49.2  | 51.8                                    | 49.2                        | 49.8                                    | -0.6             |
|                            | 00.10-00.15 | 51.6  | 53.0                                    | 51.6                        | 51.0                                    | 0.6              |
|                            | 00.15-00.20 | 52.7  | 52.2                                    | 46.1                        | 50.2                                    | -4.1             |
|                            | 00.20-00.25 | 48.1  | 53.3                                    | 48.1                        | 51.3                                    | -3.2             |
|                            | 00.25-00.30 | 47.2  | 52.0                                    | 47.2                        | 50.0                                    | -2.8             |
|                            | 00.30-00.35 | 48.2  | 57.4                                    | 48.2                        | 55.4                                    | -7.2             |
|                            | 00.35-00.40 | 48.7  | 52.5                                    | 48.7                        | 50.5                                    | -1.8             |
|                            | 00.40-00.45 | 50.2  | 52.8                                    | 50.2                        | 50.8                                    | -0.6             |
|                            | 00.45-00.50 | 50.9  | 52.7                                    | 50.9                        | 50.7                                    | 0.2              |
|                            | 00.50-00.55 | 51.0  | 52.2                                    | 51.0                        | 50.2                                    | 0.8              |
|                            | 00.55-01.00 | 52.1  | 51.9                                    | 41.6                        | 49.9                                    | -8.3             |
| 15.                        | 01.00-01.05 | 54.1  | 52.6                                    | 51.8                        | 50.6                                    | 1.2              |
|                            | 01.05-01.10 | 54.5  | 54.0                                    | 47.9                        | 52.0                                    | -4.1             |
|                            | 01.10-01.15 | 54.1  | 54.1                                    | 54.1                        | 52.1                                    | 2.0              |
|                            | 01.15-01.20 | 54.4  | 53.2                                    | 51.2                        | 51.2                                    | 0.0              |
|                            | 01.20-01.25 | 51.7  | 53.0                                    | 51.7                        | 51.0                                    | 0.7              |
|                            | 01.25-01.30 | 53.6  | 53.2                                    | 46.0                        | 51.2                                    | -5.2             |
|                            | 01.30-01.35 | 53.8  | 51.7                                    | 52.6                        | 50.7                                    | 1.9              |
|                            | 01.35-01.40 | 54.6  | 53.7                                    | 50.3                        | 51.7                                    | -1.4             |
|                            | 01.40-01.45 | 56.1  | 53.1                                    | 56.1                        | 51.1                                    | 5.0              |
|                            | 01.45-01.50 | 53.8  | 53.9                                    | 53.8                        | 51.9                                    | 1.9              |
|                            | 01.50-01.55 | 52.8  | 65.7                                    | 52.8                        | 63.7                                    | -10.9            |
|                            | 01.55-02.00 | 52.0  | 64.9                                    | 52.0                        | 62.9                                    | -10.9            |
| 16.                        | 02.00-02.05 | 53.9  | 57.3                                    | 53.9                        | 55.3                                    | -1.4             |
|                            | 02.05-02.10 | 51.0  | 55.9                                    | 51.0                        | 53.9                                    | -2.9             |
|                            | 02.10-02.15 | 51.4  | 52.7                                    | 51.4                        | 50.7                                    | 0.7              |
|                            | 02.15-02.20 | 55.0  | 52.1                                    | 54.9                        | 50.1                                    | 4.8              |
|                            | 02.20-02.25 | 49.9  | 55.4                                    | 49.9                        | 53.4                                    | -3.5             |
|                            | 02.25-02.30 | 49.4  | 53.0                                    | 49.4                        | 51.0                                    | -1.6             |
|                            | 02.30-02.35 | 53.6  | 52.1                                    | 51.3                        | 50.1                                    | 1.2              |
|                            | 02.35-02.40 | 52.1  | 51.8                                    | 43.3                        | 49.8                                    | -6.5             |
|                            | 02.40-02.45 | 49.7  | 51.8                                    | 49.7                        | 49.8                                    | -0.1             |
|                            | 02.45-02.50 | 53.0  | 53.5                                    | 53.0                        | 51.5                                    | 1.5              |
|                            | 02.50-02.55 | 52.4  | 58.2                                    | 52.4                        | 53.6                                    | -1.2             |
|                            | 02.55-03.00 | 53.5  | 53.9                                    | 53.5                        | 50.5                                    | 3.0              |
| 17.                        | 03.00-03.05 | 53.0  | 53.4                                    | 53.0                        | 51.4                                    | 1.6              |
|                            | 03.05-03.10 | 52.2  | 52.6                                    | 52.2                        | 50.6                                    | 1.6              |
|                            | 03.10-03.15 | 51.0  | 56.9                                    | 51.0                        | 52.1                                    | -1.1             |
|                            | 03.15-03.20 | 51.3  | 53.7                                    | 51.3                        | 50.3                                    | 1.0              |
|                            | 03.20-03.25 | 53.9  | 56.3                                    | 53.9                        | 54.2                                    | -0.3             |
|                            | 03.25-03.30 | 59.3  | 58.6                                    | 54.0                        | 53.0                                    | 1.0              |
|                            | 03.30-03.35 | 54.5  | 55.3                                    | 54.5                        | 53.3                                    | 1.2              |
|                            | 03.35-03.40 | 54.2  | 53.7                                    | 47.6                        | 51.7                                    | -4.1             |
|                            | 03.40-03.45 | 52.6  | 56.9                                    | 52.6                        | 52.3                                    | 0.3              |
|                            | 03.45-03.50 | 53.2  | 57.6                                    | 53.2                        | 53.0                                    | 0.2              |
|                            | 03.50-03.55 | 51.0  | 56.7                                    | 51.0                        | 52.1                                    | -1.1             |
|                            | 03.55-04.00 | 52.4  | 55.9                                    | 52.4                        | 51.3                                    | 1.1              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(4/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 21-22/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 18.                        | 04.00-04.05 | 55.2  | 54.6                                    | 49.3                        | 52.6                                    | -3.3             |
|                            | 04.05-04.10 | 56.5  | 55.6                                    | 52.2                        | 51.0                                    | 1.2              |
|                            | 04.10-04.15 | 54.1  | 55.6                                    | 54.1                        | 51.0                                    | 3.1              |
|                            | 04.15-04.20 | 52.7  | 53.5                                    | 52.7                        | 51.5                                    | 1.2              |
|                            | 04.20-04.25 | 53.1  | 53.1                                    | 53.1                        | 52.2                                    | 0.9              |
|                            | 04.25-04.30 | 53.0  | 54.9                                    | 53.0                        | 52.9                                    | 0.1              |
|                            | 04.30-04.35 | 50.6  | 54.6                                    | 50.6                        | 52.6                                    | -2.0             |
|                            | 04.35-04.40 | 51.1  | 59.2                                    | 51.1                        | 57.2                                    | -6.1             |
|                            | 04.40-04.45 | 49.9  | 66.1                                    | 49.9                        | 64.1                                    | -14.2            |
|                            | 04.45-04.50 | 55.4  | 59.6                                    | 55.4                        | 57.6                                    | -2.2             |
| 19.                        | 04.50-04.55 | 51.2  | 55.0                                    | 51.2                        | 53.0                                    | -1.8             |
|                            | 04.55-05.00 | 51.4  | 56.9                                    | 51.4                        | 52.3                                    | -0.9             |
|                            | 05.00-05.05 | 54.2  | 54.6                                    | 54.2                        | 52.6                                    | 1.6              |
|                            | 05.05-05.10 | 53.2  | 55.2                                    | 53.2                        | 53.2                                    | 0.0              |
|                            | 05.10-05.15 | 55.4  | 54.9                                    | 48.8                        | 52.9                                    | -4.1             |
|                            | 05.15-05.20 | 53.6  | 53.9                                    | 53.6                        | 51.9                                    | 1.7              |
|                            | 05.20-05.25 | 52.1  | 54.8                                    | 52.1                        | 52.8                                    | -0.7             |
|                            | 05.25-05.30 | 51.4  | 61.2                                    | 51.4                        | 59.2                                    | -7.8             |
|                            | 05.30-05.35 | 51.2  | 63.1                                    | 51.2                        | 61.1                                    | -9.9             |
|                            | 05.35-05.40 | 51.4  | 62.3                                    | 51.4                        | 60.3                                    | -8.9             |
| 20.                        | 05.40-05.45 | 55.1  | 56.0                                    | 55.1                        | 54.0                                    | 1.1              |
|                            | 05.45-05.50 | 52.5  | 59.3                                    | 52.5                        | 57.3                                    | -4.8             |
|                            | 05.50-05.55 | 49.7  | 59.9                                    | 49.7                        | 57.9                                    | -8.2             |
|                            | 05.55-06.00 | 50.6  | 59.6                                    | 50.6                        | 57.6                                    | -7.0             |
| 21.                        | 06.00-07.00 | 50.3  | 52.4                                    | 50.3                        | 52.8                                    | -2.5             |
| 22.                        | 07.00-08.00 | 53.6  | 53.4                                    | 38.0                        | 50.7                                    | -12.6            |
| 23.                        | 08.00-09.00 | 53.9  | 53.9                                    | 53.9                        | 52.1                                    | 1.8              |
| 24.                        | 09.00-10.00 | 54.3  | 55.0                                    | 54.3                        | 52.5                                    | 1.8              |
| 25.                        | 10.00-11.00 | 55.8  | 56.0                                    | 55.8                        | 51.5                                    | 4.3              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/5-21  
 Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
 Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
 Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
 Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(5/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 22-23/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 11.00-12.00 | 55.1  | 58.7                                    | 55.1                        | 51.3                                    | 3.8              |
| 2.                         | 12.00-13.00 | 59.6  | 55.0                                    | 57.8                        | 52.1                                    | 5.7              |
| 3.                         | 13.00-14.00 | 58.9  | 52.0                                    | 57.9                        | 50.0                                    | 7.9              |
| 4.                         | 14.00-15.00 | 55.5  | 51.3                                    | 53.5                        | 51.6                                    | 1.9              |
| 5.                         | 15.00-16.00 | 52.4  | 52.4                                    | 33.7                        | 51.7                                    | -18.0            |
| 6.                         | 16.00-17.00 | 56.2  | 50.8                                    | 54.8                        | 52.5                                    | 2.3              |
| 7.                         | 17.00-18.00 | 54.8  | 54.6                                    | 40.2                        | 53.2                                    | -13.0            |
| 8.                         | 18.00-19.00 | 55.6  | 50.7                                    | 53.8                        | 52.1                                    | 1.7              |
| 9.                         | 19.00-20.00 | 53.9  | 53.6                                    | 42.4                        | 52.3                                    | -9.9             |
| 10.                        | 20.00-21.00 | 53.6  | 51.6                                    | 49.2                        | 51.6                                    | -2.4             |
| 11.                        | 21.00-22.00 | 53.5  | 52.8                                    | 45.1                        | 52.6                                    | -7.5             |
| 12.                        | 22.00-22.05 | 52.1  | 53.5                                    | 52.1                        | 51.5                                    | 0.6              |
|                            | 22.05-22.10 | 52.8  | 52.7                                    | 39.4                        | 53.3                                    | -13.9            |
|                            | 22.10-22.15 | 52.9  | 53.7                                    | 52.9                        | 52.3                                    | 0.6              |
|                            | 22.15-22.20 | 52.8  | 58.6                                    | 52.8                        | 56.2                                    | -3.4             |
|                            | 22.20-22.25 | 52.8  | 55.6                                    | 52.8                        | 54.6                                    | -1.8             |
|                            | 22.25-22.30 | 52.7  | 53.9                                    | 52.7                        | 51.9                                    | 0.8              |
|                            | 22.30-22.35 | 52.6  | 53.1                                    | 52.6                        | 51.1                                    | 1.5              |
|                            | 22.35-22.40 | 53.2  | 52.6                                    | 47.3                        | 53.2                                    | -5.9             |
|                            | 22.40-22.45 | 52.6  | 53.7                                    | 52.6                        | 51.7                                    | 0.9              |
|                            | 22.45-22.50 | 52.7  | 53.3                                    | 52.7                        | 51.3                                    | 1.4              |
|                            | 22.50-22.55 | 52.7  | 53.1                                    | 52.7                        | 51.1                                    | 1.6              |
|                            | 22.55-23.00 | 52.8  | 55.1                                    | 52.8                        | 52.3                                    | 0.5              |
| 13.                        | 23.00-23.05 | 52.2  | 53.4                                    | 52.2                        | 51.4                                    | 0.8              |
|                            | 23.05-23.10 | 52.9  | 53.2                                    | 52.9                        | 51.2                                    | 1.7              |
|                            | 23.10-23.15 | 52.2  | 53.9                                    | 52.2                        | 51.9                                    | 0.3              |
|                            | 23.15-23.20 | 52.5  | 53.6                                    | 52.5                        | 51.6                                    | 0.9              |
|                            | 23.20-23.25 | 55.7  | 54.3                                    | 53.1                        | 52.3                                    | 0.8              |
|                            | 23.25-23.30 | 52.9  | 53.7                                    | 52.9                        | 51.7                                    | 1.2              |
|                            | 23.30-23.35 | 52.8  | 52.8                                    | 52.8                        | 53.4                                    | -0.6             |
|                            | 23.35-23.40 | 52.8  | 53.4                                    | 52.8                        | 51.4                                    | 1.4              |
|                            | 23.40-23.45 | 55.1  | 53.9                                    | 51.9                        | 51.9                                    | 0.0              |
|                            | 23.45-23.50 | 52.7  | 53.7                                    | 52.7                        | 51.7                                    | 1.0              |
|                            | 23.50-23.55 | 52.6  | 53.3                                    | 52.6                        | 51.3                                    | 1.3              |
|                            | 23.55-00.00 | 56.3  | 53.7                                    | 55.8                        | 51.7                                    | 4.1              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(5/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 22-23/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 14.                        | 00.00-00.05 | 52.6  | 52.8                                    | 52.6                        | 50.8                                    | 1.8              |
|                            | 00.05-00.10 | 52.3  | 51.8                                    | 45.7                        | 49.8                                    | -4.1             |
|                            | 00.10-00.15 | 52.7  | 53.0                                    | 52.7                        | 51.0                                    | 1.7              |
|                            | 00.15-00.20 | 52.6  | 52.2                                    | 45.0                        | 50.2                                    | -5.2             |
|                            | 00.20-00.25 | 52.7  | 53.3                                    | 52.7                        | 51.3                                    | 1.4              |
|                            | 00.25-00.30 | 52.8  | 52.0                                    | 48.1                        | 50.0                                    | -1.9             |
|                            | 00.30-00.35 | 53.1  | 57.4                                    | 53.1                        | 55.4                                    | -2.3             |
|                            | 00.35-00.40 | 52.7  | 52.5                                    | 42.2                        | 50.5                                    | -8.3             |
|                            | 00.40-00.45 | 53.1  | 52.8                                    | 44.3                        | 50.8                                    | -6.5             |
|                            | 00.45-00.50 | 52.9  | 52.7                                    | 42.4                        | 50.7                                    | -8.3             |
|                            | 00.50-00.55 | 52.8  | 52.2                                    | 46.9                        | 50.2                                    | -3.3             |
| 15.                        | 00.55-01.00 | 53.0  | 51.9                                    | 49.5                        | 49.9                                    | -0.4             |
|                            | 01.00-01.05 | 52.8  | 52.6                                    | 42.3                        | 50.6                                    | -8.3             |
|                            | 01.05-01.10 | 52.7  | 54.0                                    | 52.7                        | 52.0                                    | 0.7              |
|                            | 01.10-01.15 | 52.8  | 54.1                                    | 52.8                        | 52.1                                    | 0.7              |
|                            | 01.15-01.20 | 52.9  | 53.2                                    | 52.9                        | 51.2                                    | 1.7              |
|                            | 01.20-01.25 | 52.6  | 53.0                                    | 52.6                        | 51.0                                    | 1.6              |
|                            | 01.25-01.30 | 52.6  | 53.2                                    | 52.6                        | 51.2                                    | 1.4              |
|                            | 01.30-01.35 | 52.7  | 51.7                                    | 48.8                        | 50.7                                    | -1.9             |
|                            | 01.35-01.40 | 53.0  | 53.7                                    | 53.0                        | 51.7                                    | 1.3              |
|                            | 01.40-01.45 | 53.0  | 53.1                                    | 53.0                        | 51.1                                    | 1.9              |
|                            | 01.45-01.50 | 52.8  | 53.9                                    | 52.8                        | 51.9                                    | 0.9              |
| 16.                        | 01.50-01.55 | 52.8  | 65.7                                    | 52.8                        | 63.7                                    | -10.9            |
|                            | 01.55-02.00 | 52.9  | 64.9                                    | 52.9                        | 62.9                                    | -10.0            |
|                            | 02.00-02.05 | 52.7  | 57.3                                    | 52.7                        | 55.3                                    | -2.6             |
|                            | 02.05-02.10 | 53.0  | 55.9                                    | 53.0                        | 53.9                                    | -0.9             |
|                            | 02.10-02.15 | 52.7  | 52.7                                    | 52.7                        | 50.7                                    | 2.0              |
|                            | 02.15-02.20 | 52.7  | 52.1                                    | 46.8                        | 50.1                                    | -3.3             |
|                            | 02.20-02.25 | 52.8  | 55.4                                    | 52.8                        | 53.4                                    | -0.6             |
|                            | 02.25-02.30 | 52.6  | 53.0                                    | 52.6                        | 51.0                                    | 1.6              |
|                            | 02.30-02.35 | 52.6  | 52.1                                    | 46.0                        | 50.1                                    | -4.1             |
|                            | 02.35-02.40 | 52.6  | 51.8                                    | 47.9                        | 49.8                                    | -1.9             |
|                            | 02.40-02.45 | 52.4  | 51.8                                    | 46.5                        | 49.8                                    | -3.3             |
| 17.                        | 02.45-02.50 | 52.9  | 53.5                                    | 52.9                        | 51.5                                    | 1.4              |
|                            | 02.50-02.55 | 53.1  | 58.2                                    | 53.1                        | 53.6                                    | -0.5             |
|                            | 02.55-03.00 | 53.2  | 53.9                                    | 53.2                        | 50.5                                    | 2.7              |
|                            | 03.00-03.05 | 53.7  | 53.4                                    | 44.9                        | 51.4                                    | -6.5             |
|                            | 03.05-03.10 | 57.7  | 52.6                                    | 59.1                        | 50.6                                    | 8.5              |
|                            | 03.10-03.15 | 53.1  | 56.9                                    | 53.1                        | 52.1                                    | 1.0              |
|                            | 03.15-03.20 | 52.2  | 53.7                                    | 52.2                        | 50.3                                    | 1.9              |
|                            | 03.20-03.25 | 52.1  | 56.3                                    | 52.1                        | 54.2                                    | -2.1             |
|                            | 03.25-03.30 | 52.3  | 58.6                                    | 52.3                        | 53.0                                    | -0.7             |
|                            | 03.30-03.35 | 52.3  | 55.3                                    | 52.3                        | 53.3                                    | -1.0             |
|                            | 03.35-03.40 | 52.9  | 53.7                                    | 52.9                        | 51.7                                    | 1.2              |
|                            | 03.40-03.45 | 53.6  | 56.9                                    | 53.6                        | 52.3                                    | 1.3              |
|                            | 03.45-03.50 | 56.2  | 57.6                                    | 56.2                        | 53.0                                    | 3.2              |
|                            | 03.50-03.55 | 55.3  | 56.7                                    | 55.3                        | 52.1                                    | 3.2              |
|                            | 03.55-04.00 | 54.1  | 55.9                                    | 54.1                        | 51.3                                    | 2.8              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(5/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 22-23/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 18.                        | 04.00-04.05 | 54.6  | 54.6                                    | 54.6                        | 52.6                                    | 2.0              |
|                            | 04.05-04.10 | 55.6  | 55.6                                    | 55.6                        | 51.0                                    | 4.6              |
|                            | 04.10-04.15 | 55.6  | 55.6                                    | 55.6                        | 51.0                                    | 4.6              |
|                            | 04.15-04.20 | 55.9  | 53.5                                    | 55.2                        | 51.5                                    | 3.7              |
|                            | 04.20-04.25 | 55.8  | 53.1                                    | 55.5                        | 52.2                                    | 3.3              |
|                            | 04.25-04.30 | 56.1  | 54.9                                    | 52.9                        | 52.9                                    | 0.0              |
|                            | 04.30-04.35 | 57.7  | 54.6                                    | 57.8                        | 52.6                                    | 5.2              |
|                            | 04.35-04.40 | 55.0  | 59.2                                    | 55.0                        | 57.2                                    | -2.2             |
|                            | 04.40-04.45 | 58.9  | 66.1                                    | 58.9                        | 64.1                                    | -5.2             |
|                            | 04.45-04.50 | 58.0  | 59.6                                    | 58.0                        | 57.6                                    | 0.4              |
| 19.                        | 04.50-04.55 | 56.1  | 55.0                                    | 52.6                        | 53.0                                    | -0.4             |
|                            | 04.55-05.00 | 54.9  | 56.9                                    | 54.9                        | 52.3                                    | 2.6              |
|                            | 05.00-05.05 | 55.5  | 54.6                                    | 51.2                        | 52.6                                    | -1.4             |
|                            | 05.05-05.10 | 55.0  | 55.2                                    | 55.0                        | 53.2                                    | 1.8              |
|                            | 05.10-05.15 | 55.8  | 54.9                                    | 51.5                        | 52.9                                    | -1.4             |
|                            | 05.15-05.20 | 55.2  | 53.9                                    | 52.3                        | 51.9                                    | 0.4              |
|                            | 05.20-05.25 | 54.1  | 54.8                                    | 54.1                        | 52.8                                    | 1.3              |
|                            | 05.25-05.30 | 54.6  | 61.2                                    | 54.6                        | 59.2                                    | -4.6             |
|                            | 05.30-05.35 | 54.8  | 63.1                                    | 54.8                        | 61.1                                    | -6.3             |
|                            | 05.35-05.40 | 55.5  | 62.3                                    | 55.5                        | 60.3                                    | -4.8             |
| 20.                        | 05.40-05.45 | 57.2  | 56.0                                    | 54.0                        | 54.0                                    | 0.0              |
|                            | 05.45-05.50 | 54.9  | 59.3                                    | 54.9                        | 57.3                                    | -2.4             |
|                            | 05.50-05.55 | 54.8  | 59.9                                    | 54.8                        | 57.9                                    | -3.1             |
|                            | 05.55-06.00 | 55.0  | 59.6                                    | 55.0                        | 57.6                                    | -2.6             |
|                            | 06.00-07.00 | 55.4  | 52.4                                    | 52.3                        | 52.8                                    | -0.5             |
|                            | 07.00-08.00 | 55.4  | 53.4                                    | 51.1                        | 50.7                                    | 0.4              |
|                            | 08.00-09.00 | 54.9  | 53.9                                    | 48.0                        | 52.1                                    | -4.1             |
|                            | 09.00-10.00 | 54.9  | 55.0                                    | 54.9                        | 52.5                                    | 2.4              |
|                            | 10.00-11.00 | 53.4  | 56.0                                    | 53.4                        | 51.5                                    | 1.9              |
|                            |             |   |   |                             |   |                  |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/6-21  
 Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
 Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
 Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
 Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(6/1-3)

| Item                        | Time        | Result (dB(A))                                    |   |                             |   |                  |
|-----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                             |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                             |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                             |             | 23-24/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                          | 11.00-12.00 | 53.7  | 58.7                                    | 53.7                        | 51.3                                    | 2.4              |
| 2.                          | 12.00-13.00 | 53.4  | 55.0                                    | 53.4                        | 52.1                                    | 1.3              |
| 3.                          | 13.00-14.00 | 56.0  | 52.0                                    | 53.7                        | 50.0                                    | 3.7              |
| 4.                          | 14.00-15.00 | 54.3  | 51.3                                    | 51.3                        | 51.6                                    | -0.3             |
| 5.                          | 15.00-16.00 | 54.0  | 52.4                                    | 49.0                        | 51.7                                    | -2.7             |
| 6.                          | 16.00-17.00 | 54.1  | 50.8                                    | 51.3                        | 52.5                                    | -1.2             |
| 7.                          | 17.00-18.00 | 53.0  | 54.6                                    | 53.0                        | 53.2                                    | -0.2             |
| 8.                          | 18.00-19.00 | 52.3  | 50.7                                    | 47.2                        | 52.1                                    | -4.9             |
| 9.                          | 19.00-20.00 | 52.5  | 53.6                                    | 52.5                        | 52.3                                    | 0.2              |
| 10.                         | 20.00-21.00 | 51.3  | 51.6                                    | 51.3                        | 51.6                                    | -0.3             |
| 11.                         | 21.00-22.00 | 51.1  | 52.8                                    | 51.1                        | 52.6                                    | -1.5             |
| 12.                         | 22.00-22.05 | 51.0  | 53.5                                    | 51.0                        | 51.5                                    | -0.5             |
|                             | 22.05-22.10 | 50.9  | 52.7                                    | 50.9                        | 53.3                                    | -2.4             |
|                             | 22.10-22.15 | 51.6  | 53.7                                    | 51.6                        | 52.3                                    | -0.7             |
|                             | 22.15-22.20 | 52.1  | 58.6                                    | 52.1                        | 56.2                                    | -4.1             |
|                             | 22.20-22.25 | 51.5  | 55.6                                    | 51.5                        | 54.6                                    | -3.1             |
|                             | 22.25-22.30 | 52.1  | 53.9                                    | 52.1                        | 51.9                                    | 0.2              |
|                             | 22.30-22.35 | 52.2  | 53.1                                    | 52.2                        | 51.1                                    | 1.1              |
|                             | 22.35-22.40 | 53.1  | 52.6                                    | 46.5                        | 53.2                                    | -6.7             |
|                             | 22.40-22.45 | 53.0  | 53.7                                    | 53.0                        | 51.7                                    | 1.3              |
|                             | 22.45-22.50 | 52.0  | 53.3                                    | 52.0                        | 51.3                                    | 0.7              |
|                             | 22.50-22.55 | 51.2  | 53.1                                    | 51.2                        | 51.1                                    | 0.1              |
|                             | 22.55-23.00 | 52.0  | 55.1                                    | 52.0                        | 52.3                                    | -0.3             |
| 13.                         | 23.00-23.05 | 51.5  | 53.4                                    | 51.5                        | 51.4                                    | 0.1              |
|                             | 23.05-23.10 | 51.9  | 53.2                                    | 51.9                        | 51.2                                    | 0.7              |
|                             | 23.10-23.15 | 51.9  | 53.9                                    | 51.9                        | 51.9                                    | 0.0              |
|                             | 23.15-23.20 | 52.0  | 53.6                                    | 52.0                        | 51.6                                    | 0.4              |
|                             | 23.20-23.25 | 52.1  | 54.3                                    | 52.1                        | 52.3                                    | -0.2             |
|                             | 23.25-23.30 | 51.9  | 53.7                                    | 51.9                        | 51.7                                    | 0.2              |
|                             | 23.30-23.35 | 52.1  | 52.8                                    | 52.1                        | 53.4                                    | -1.3             |
|                             | 23.35-23.40 | 51.5  | 53.4                                    | 51.5                        | 51.4                                    | 0.1              |
|                             | 23.40-23.45 | 51.9  | 53.9                                    | 51.9                        | 51.9                                    | 0.0              |
|                             | 23.45-23.50 | 51.9  | 53.7                                    | 51.9                        | 51.7                                    | 0.2              |
|                             | 23.50-23.55 | 52.4  | 53.3                                    | 52.4                        | 51.3                                    | 1.1              |
|                             | 23.55-00.00 | 52.3  | 53.7                                    | 52.3                        | 51.7                                    | 0.6              |
| Standard <sup>(1)/(2)</sup> |             |   |   |                             |   | 10               |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(6/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 23-24/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 14.                        | 00.00-00.05 | 52.1  | 52.8                                    | 52.1                        | 50.8                                    | 1.3              |
|                            | 00.05-00.10 | 52.2  | 51.8                                    | 44.6                        | 49.8                                    | -5.2             |
|                            | 00.10-00.15 | 51.7  | 53.0                                    | 51.7                        | 51.0                                    | 0.7              |
|                            | 00.15-00.20 | 52.0  | 52.2                                    | 52.0                        | 50.2                                    | 1.8              |
|                            | 00.20-00.25 | 51.4  | 53.3                                    | 51.4                        | 51.3                                    | 0.1              |
|                            | 00.25-00.30 | 52.1  | 52.0                                    | 38.7                        | 50.0                                    | -11.3            |
|                            | 00.30-00.35 | 52.0  | 57.4                                    | 52.0                        | 55.4                                    | -3.4             |
|                            | 00.35-00.40 | 52.3  | 52.5                                    | 52.3                        | 50.5                                    | 1.8              |
|                            | 00.40-00.45 | 52.2  | 52.8                                    | 52.2                        | 50.8                                    | 1.4              |
|                            | 00.45-00.50 | 51.7  | 52.7                                    | 51.7                        | 50.7                                    | 1.0              |
|                            | 00.50-00.55 | 52.0  | 52.2                                    | 52.0                        | 50.2                                    | 1.8              |
| 15.                        | 00.55-01.00 | 51.7  | 51.9                                    | 51.7                        | 49.9                                    | 1.8              |
|                            | 01.00-01.05 | 51.5  | 52.6                                    | 51.5                        | 50.6                                    | 0.9              |
|                            | 01.05-01.10 | 52.4  | 54.0                                    | 52.4                        | 52.0                                    | 0.4              |
|                            | 01.10-01.15 | 51.8  | 54.1                                    | 51.8                        | 52.1                                    | -0.3             |
|                            | 01.15-01.20 | 51.6  | 53.2                                    | 51.6                        | 51.2                                    | 0.4              |
|                            | 01.20-01.25 | 51.1  | 53.0                                    | 51.1                        | 51.0                                    | 0.1              |
|                            | 01.25-01.30 | 50.9  | 53.2                                    | 50.9                        | 51.2                                    | -0.3             |
|                            | 01.30-01.35 | 51.9  | 51.7                                    | 41.4                        | 50.7                                    | -9.3             |
|                            | 01.35-01.40 | 51.2  | 53.7                                    | 51.2                        | 51.7                                    | -0.5             |
|                            | 01.40-01.45 | 51.5  | 53.1                                    | 51.5                        | 51.1                                    | 0.4              |
|                            | 01.45-01.50 | 51.6  | 53.9                                    | 51.6                        | 51.9                                    | -0.3             |
| 16.                        | 01.50-01.55 | 51.5  | 65.7                                    | 51.5                        | 63.7                                    | -12.2            |
|                            | 01.55-02.00 | 51.8  | 64.9                                    | 51.8                        | 62.9                                    | -11.1            |
|                            | 02.00-02.05 | 51.9  | 57.3                                    | 51.9                        | 55.3                                    | -3.4             |
|                            | 02.05-02.10 | 51.7  | 55.9                                    | 51.7                        | 53.9                                    | -2.2             |
|                            | 02.10-02.15 | 52.0  | 52.7                                    | 52.0                        | 50.7                                    | 1.3              |
|                            | 02.15-02.20 | 52.4  | 52.1                                    | 43.6                        | 50.1                                    | -6.5             |
|                            | 02.20-02.25 | 51.9  | 55.4                                    | 51.9                        | 53.4                                    | -1.5             |
|                            | 02.25-02.30 | 51.2  | 53.0                                    | 51.2                        | 51.0                                    | 0.2              |
|                            | 02.30-02.35 | 51.8  | 52.1                                    | 51.8                        | 50.1                                    | 1.7              |
|                            | 02.35-02.40 | 51.6  | 51.8                                    | 51.6                        | 49.8                                    | 1.8              |
|                            | 02.40-02.45 | 51.3  | 51.8                                    | 51.3                        | 49.8                                    | 1.5              |
| 17.                        | 02.45-02.50 | 55.3  | 53.5                                    | 53.6                        | 51.5                                    | 2.1              |
|                            | 02.50-02.55 | 50.9  | 58.2                                    | 50.9                        | 53.6                                    | -2.7             |
|                            | 02.55-03.00 | 50.8  | 53.9                                    | 50.8                        | 50.5                                    | 0.3              |
|                            | 03.00-03.05 | 51.0  | 53.4                                    | 51.0                        | 51.4                                    | -0.4             |
|                            | 03.05-03.10 | 51.3  | 52.6                                    | 51.3                        | 50.6                                    | 0.7              |
|                            | 03.10-03.15 | 51.3  | 56.9                                    | 51.3                        | 52.1                                    | -0.8             |
|                            | 03.15-03.20 | 51.5  | 53.7                                    | 51.5                        | 50.3                                    | 1.2              |
|                            | 03.20-03.25 | 51.2  | 56.3                                    | 51.2                        | 54.2                                    | -3.0             |
|                            | 03.25-03.30 | 51.1  | 58.6                                    | 51.1                        | 53.0                                    | -1.9             |
|                            | 03.30-03.35 | 51.5  | 55.3                                    | 51.5                        | 53.3                                    | -1.8             |
|                            | 03.35-03.40 | 51.8  | 53.7                                    | 51.8                        | 51.7                                    | 0.1              |
|                            | 03.40-03.45 | 52.0  | 56.9                                    | 52.0                        | 52.3                                    | -0.3             |
|                            | 03.45-03.50 | 53.4  | 57.6                                    | 53.4                        | 53.0                                    | 0.4              |
|                            | 03.50-03.55 | 52.7  | 56.7                                    | 52.7                        | 52.1                                    | 0.6              |
|                            | 03.55-04.00 | 52.8  | 55.9                                    | 52.8                        | 51.3                                    | 1.5              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(6/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 23-24/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 18.                        | 04.00-04.05 | 52.5  | 54.6                                    | 52.5                        | 52.6                                    | -0.1             |
|                            | 04.05-04.10 | 55.0  | 55.6                                    | 55.0                        | 51.0                                    | 4.0              |
|                            | 04.10-04.15 | 54.1  | 55.6                                    | 54.1                        | 51.0                                    | 3.1              |
|                            | 04.15-04.20 | 52.5  | 53.5                                    | 52.5                        | 51.5                                    | 1.0              |
|                            | 04.20-04.25 | 51.3  | 53.1                                    | 51.3                        | 52.2                                    | -0.9             |
|                            | 04.25-04.30 | 51.4  | 54.9                                    | 51.4                        | 52.9                                    | -1.5             |
|                            | 04.30-04.35 | 53.8  | 54.6                                    | 53.8                        | 52.6                                    | 1.2              |
|                            | 04.35-04.40 | 52.9  | 59.2                                    | 52.9                        | 57.2                                    | -4.3             |
|                            | 04.40-04.45 | 52.2  | 66.1                                    | 52.2                        | 64.1                                    | -11.9            |
|                            | 04.45-04.50 | 50.9  | 59.6                                    | 50.9                        | 57.6                                    | -6.7             |
|                            | 04.50-04.55 | 53.0  | 55.0                                    | 53.0                        | 53.0                                    | 0.0              |
|                            | 04.55-05.00 | 52.2  | 56.9                                    | 52.2                        | 52.3                                    | -0.1             |
| 19.                        | 05.00-05.05 | 51.0  | 54.6                                    | 51.0                        | 52.6                                    | -1.6             |
|                            | 05.05-05.10 | 51.6  | 55.2                                    | 51.6                        | 53.2                                    | -1.6             |
|                            | 05.10-05.15 | 50.6  | 54.9                                    | 50.6                        | 52.9                                    | -2.3             |
|                            | 05.15-05.20 | 52.4  | 53.9                                    | 52.4                        | 51.9                                    | 0.5              |
|                            | 05.20-05.25 | 51.8  | 54.8                                    | 51.8                        | 52.8                                    | -1.0             |
|                            | 05.25-05.30 | 52.5  | 61.2                                    | 52.5                        | 59.2                                    | -6.7             |
|                            | 05.30-05.35 | 51.6  | 63.1                                    | 51.6                        | 61.1                                    | -9.5             |
|                            | 05.35-05.40 | 51.8  | 62.3                                    | 51.8                        | 60.3                                    | -8.5             |
|                            | 05.40-05.45 | 53.3  | 56.0                                    | 53.3                        | 54.0                                    | -0.7             |
|                            | 05.45-05.50 | 50.9  | 59.3                                    | 50.9                        | 57.3                                    | -6.4             |
|                            | 05.50-05.55 | 53.2  | 59.9                                    | 53.2                        | 57.9                                    | -4.7             |
|                            | 05.55-06.00 | 52.6  | 59.6                                    | 52.6                        | 57.6                                    | -5.0             |
| 20.                        | 06.00-07.00 | 52.2  | 52.4                                    | 52.2                        | 52.8                                    | -0.6             |
| 21.                        | 07.00-08.00 | 52.7  | 53.4                                    | 52.7                        | 50.7                                    | 2.0              |
| 22.                        | 08.00-09.00 | 52.4  | 53.9                                    | 52.4                        | 52.1                                    | 0.3              |
| 23.                        | 09.00-10.00 | 53.5  | 55.0                                    | 53.5                        | 52.5                                    | 1.0              |
| 24.                        | 10.00-11.00 | 54.8  | 56.0                                    | 54.8                        | 51.5                                    | 3.3              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Thai Environmental Technic Limited

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/7-21  
 Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
 Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
 Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
 Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(7/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 24-25/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 11.00-12.00 | 56.9  | 58.7                                    | 56.9                        | 51.3                                    | 5.6              |
| 2.                         | 12.00-13.00 | 56.5  | 55.0                                    | 51.1                        | 52.1                                    | -1.0             |
| 3.                         | 13.00-14.00 | 55.9  | 52.0                                    | 53.5                        | 50.0                                    | 3.5              |
| 4.                         | 14.00-15.00 | 58.3  | 51.3                                    | 57.4                        | 51.6                                    | 5.8              |
| 5.                         | 15.00-16.00 | 54.2  | 52.4                                    | 49.5                        | 51.7                                    | -2.2             |
| 6.                         | 16.00-17.00 | 53.0  | 50.8                                    | 49.0                        | 52.5                                    | -3.5             |
| 7.                         | 17.00-18.00 | 53.3  | 54.6                                    | 53.3                        | 53.2                                    | 0.1              |
| 8.                         | 18.00-19.00 | 52.9  | 50.7                                    | 49.0                        | 52.1                                    | -3.1             |
| 9.                         | 19.00-20.00 | 54.3  | 53.6                                    | 45.9                        | 52.3                                    | -6.4             |
| 10.                        | 20.00-21.00 | 52.7  | 51.6                                    | 46.0                        | 51.6                                    | -5.6             |
| 11.                        | 21.00-22.00 | 51.7  | 52.8                                    | 51.7                        | 52.6                                    | -0.9             |
| 12.                        | 22.00-22.05 | 49.8  | 53.5                                    | 49.8                        | 51.5                                    | -1.7             |
|                            | 22.05-22.10 | 55.3  | 52.7                                    | 54.8                        | 53.3                                    | 1.5              |
|                            | 22.10-22.15 | 52.0  | 53.7                                    | 52.0                        | 52.3                                    | -0.3             |
|                            | 22.15-22.20 | 58.6  | 58.6                                    | 58.6                        | 56.2                                    | 2.4              |
|                            | 22.20-22.25 | 49.7  | 55.6                                    | 49.7                        | 54.6                                    | -4.9             |
|                            | 22.25-22.30 | 52.0  | 53.9                                    | 52.0                        | 51.9                                    | 0.1              |
|                            | 22.30-22.35 | 50.0  | 53.1                                    | 50.0                        | 51.1                                    | -1.1             |
|                            | 22.35-22.40 | 49.2  | 52.6                                    | 49.2                        | 53.2                                    | -4.0             |
|                            | 22.40-22.45 | 50.0  | 53.7                                    | 50.0                        | 51.7                                    | -1.7             |
|                            | 22.45-22.50 | 50.8  | 53.3                                    | 50.8                        | 51.3                                    | -0.5             |
|                            | 22.50-22.55 | 49.4  | 53.1                                    | 49.4                        | 51.1                                    | -1.7             |
|                            | 22.55-23.00 | 59.9  | 55.1                                    | 61.2                        | 52.3                                    | 8.8              |
| 13.                        | 23.00-23.05 | 47.5  | 53.4                                    | 47.5                        | 51.4                                    | -3.9             |
|                            | 23.05-23.10 | 50.9  | 53.2                                    | 50.9                        | 51.2                                    | -0.3             |
|                            | 23.10-23.15 | 51.7  | 53.9                                    | 51.7                        | 51.9                                    | -0.2             |
|                            | 23.15-23.20 | 52.9  | 53.6                                    | 52.9                        | 51.6                                    | 1.3              |
|                            | 23.20-23.25 | 50.0  | 54.3                                    | 50.0                        | 52.3                                    | -2.3             |
|                            | 23.25-23.30 | 58.8  | 53.7                                    | 60.2                        | 51.7                                    | 8.5              |
|                            | 23.30-23.35 | 53.8  | 52.8                                    | 49.9                        | 53.4                                    | -3.5             |
|                            | 23.35-23.40 | 55.2  | 53.4                                    | 53.5                        | 51.4                                    | 2.1              |
|                            | 23.40-23.45 | 53.6  | 53.9                                    | 53.6                        | 51.9                                    | 1.7              |
|                            | 23.45-23.50 | 50.4  | 53.7                                    | 50.4                        | 51.7                                    | -1.3             |
|                            | 23.50-23.55 | 51.9  | 53.3                                    | 51.9                        | 51.3                                    | 0.6              |
|                            | 23.55-00.00 | 58.5  | 53.7                                    | 59.8                        | 51.7                                    | 8.0              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(7/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 24-25/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 14.                        | 00.00-00.05 | 53.8  | 52.8                                    | 49.9                        | 50.8                                    | -0.9             |
|                            | 00.05-00.10 | 56.8  | 51.8                                    | 58.1                        | 49.8                                    | 8.4              |
|                            | 00.10-00.15 | 54.8  | 53.0                                    | 53.1                        | 51.0                                    | 2.1              |
|                            | 00.15-00.20 | 52.8  | 52.2                                    | 46.9                        | 50.2                                    | -3.3             |
|                            | 00.20-00.25 | 54.7  | 53.3                                    | 52.1                        | 51.3                                    | 0.8              |
|                            | 00.25-00.30 | 55.6  | 52.0                                    | 56.1                        | 50.0                                    | 6.1              |
|                            | 00.30-00.35 | 49.7  | 57.4                                    | 49.7                        | 55.4                                    | -5.7             |
|                            | 00.35-00.40 | 49.3  | 52.5                                    | 49.3                        | 50.5                                    | -1.2             |
|                            | 00.40-00.45 | 50.9  | 52.8                                    | 50.9                        | 50.8                                    | 0.1              |
|                            | 00.45-00.50 | 51.6  | 52.7                                    | 51.6                        | 50.7                                    | 0.9              |
| 15.                        | 00.50-00.55 | 51.1  | 52.2                                    | 51.1                        | 50.2                                    | 0.9              |
|                            | 00.55-01.00 | 51.0  | 51.9                                    | 51.0                        | 49.9                                    | 1.1              |
|                            | 01.00-01.05 | 51.9  | 52.6                                    | 51.9                        | 50.6                                    | 1.3              |
|                            | 01.05-01.10 | 50.4  | 54.0                                    | 50.4                        | 52.0                                    | -1.6             |
|                            | 01.10-01.15 | 51.6  | 54.1                                    | 51.6                        | 52.1                                    | -0.5             |
|                            | 01.15-01.20 | 50.8  | 53.2                                    | 50.8                        | 51.2                                    | -0.4             |
|                            | 01.20-01.25 | 51.1  | 53.0                                    | 51.1                        | 51.0                                    | 0.1              |
|                            | 01.25-01.30 | 51.5  | 53.2                                    | 51.5                        | 51.2                                    | 0.3              |
|                            | 01.30-01.35 | 51.5  | 51.7                                    | 51.5                        | 50.7                                    | 0.8              |
|                            | 01.35-01.40 | 52.1  | 53.7                                    | 52.1                        | 51.7                                    | 0.4              |
| 16.                        | 01.40-01.45 | 51.4  | 53.1                                    | 51.4                        | 51.1                                    | 0.3              |
|                            | 01.45-01.50 | 51.6  | 53.9                                    | 51.6                        | 51.9                                    | -0.3             |
|                            | 01.50-01.55 | 51.8  | 65.7                                    | 51.8                        | 63.7                                    | -11.9            |
|                            | 01.55-02.00 | 51.6  | 64.9                                    | 51.6                        | 62.9                                    | -11.3            |
|                            | 02.00-02.05 | 51.5  | 57.3                                    | 51.5                        | 55.3                                    | -3.8             |
|                            | 02.05-02.10 | 50.7  | 55.9                                    | 50.7                        | 53.9                                    | -3.2             |
|                            | 02.10-02.15 | 50.7  | 52.7                                    | 50.7                        | 50.7                                    | 0.0              |
|                            | 02.15-02.20 | 50.6  | 52.1                                    | 50.6                        | 50.1                                    | 0.5              |
|                            | 02.20-02.25 | 51.3  | 55.4                                    | 51.3                        | 53.4                                    | -2.1             |
|                            | 02.25-02.30 | 50.9  | 53.0                                    | 50.9                        | 51.0                                    | -0.1             |
| 17.                        | 02.30-02.35 | 51.5  | 52.1                                    | 51.5                        | 50.1                                    | 1.4              |
|                            | 02.35-02.40 | 50.8  | 51.8                                    | 50.8                        | 49.8                                    | 1.0              |
|                            | 02.40-02.45 | 56.3  | 51.8                                    | 57.4                        | 49.8                                    | 7.6              |
|                            | 02.45-02.50 | 51.9  | 53.5                                    | 51.9                        | 51.5                                    | 0.4              |
|                            | 02.50-02.55 | 52.9  | 58.2                                    | 52.9                        | 53.6                                    | -0.7             |
|                            | 02.55-03.00 | 53.6  | 53.9                                    | 53.6                        | 50.5                                    | 3.1              |
|                            | 03.00-03.05 | 53.4  | 53.4                                    | 53.4                        | 51.4                                    | 2.0              |
|                            | 03.05-03.10 | 52.9  | 52.6                                    | 44.1                        | 50.6                                    | -6.5             |
|                            | 03.10-03.15 | 52.9  | 56.9                                    | 52.9                        | 52.1                                    | 0.8              |
|                            | 03.15-03.20 | 52.8  | 53.7                                    | 52.8                        | 50.3                                    | 2.5              |
|                            | 03.20-03.25 | 52.7  | 56.3                                    | 52.7                        | 54.2                                    | -1.5             |
|                            | 03.25-03.30 | 52.6  | 58.6                                    | 52.6                        | 53.0                                    | -0.4             |
|                            | 03.30-03.35 | 53.3  | 55.3                                    | 53.3                        | 53.3                                    | 0.0              |
|                            | 03.35-03.40 | 52.8  | 53.7                                    | 52.8                        | 51.7                                    | 1.1              |
|                            | 03.40-03.45 | 52.4  | 56.9                                    | 52.4                        | 52.3                                    | 0.1              |
|                            | 03.45-03.50 | 52.3  | 57.6                                    | 52.3                        | 53.0                                    | -0.7             |
|                            | 03.50-03.55 | 52.9  | 56.7                                    | 52.9                        | 52.1                                    | 0.8              |
|                            | 03.55-04.00 | 52.8  | 55.9                                    | 52.8                        | 51.3                                    | 1.5              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(7/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดแม่น้ำแควป่าสัก                                |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 24-25/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 18.                        | 04.00-04.05 | 52.4  | 54.6                                    | 52.4                        | 52.6                                    | -0.2             |
|                            | 04.05-04.10 | 52.6  | 55.6                                    | 52.6                        | 51.0                                    | 1.6              |
|                            | 04.10-04.15 | 53.0  | 55.6                                    | 53.0                        | 51.0                                    | 2.0              |
|                            | 04.15-04.20 | 52.3  | 53.5                                    | 52.3                        | 51.5                                    | 0.8              |
|                            | 04.20-04.25 | 52.2  | 53.1                                    | 52.2                        | 52.2                                    | 0.0              |
|                            | 04.25-04.30 | 52.7  | 54.9                                    | 52.7                        | 52.9                                    | -0.2             |
|                            | 04.30-04.35 | 52.3  | 54.6                                    | 52.3                        | 52.6                                    | -0.3             |
|                            | 04.35-04.40 | 52.4  | 59.2                                    | 52.4                        | 57.2                                    | -4.8             |
|                            | 04.40-04.45 | 53.2  | 66.1                                    | 53.2                        | 64.1                                    | -10.9            |
|                            | 04.45-04.50 | 52.7  | 59.6                                    | 52.7                        | 57.6                                    | -4.9             |
|                            | 04.50-04.55 | 52.3  | 55.0                                    | 52.3                        | 53.0                                    | -0.7             |
|                            | 04.55-05.00 | 52.0  | 56.9                                    | 52.0                        | 52.3                                    | -0.3             |
| 19.                        | 05.00-05.05 | 52.2  | 54.6                                    | 52.2                        | 52.6                                    | -0.4             |
|                            | 05.05-05.10 | 51.6  | 55.2                                    | 51.6                        | 53.2                                    | -1.6             |
|                            | 05.10-05.15 | 52.6  | 54.9                                    | 52.6                        | 52.9                                    | -0.3             |
|                            | 05.15-05.20 | 54.4  | 53.9                                    | 47.8                        | 51.9                                    | -4.1             |
|                            | 05.20-05.25 | 54.3  | 54.8                                    | 54.3                        | 52.8                                    | 1.5              |
|                            | 05.25-05.30 | 52.8  | 61.2                                    | 52.8                        | 59.2                                    | -6.4             |
|                            | 05.30-05.35 | 52.0  | 63.1                                    | 52.0                        | 61.1                                    | -9.1             |
|                            | 05.35-05.40 | 55.3  | 62.3                                    | 55.3                        | 60.3                                    | -5.0             |
|                            | 05.40-05.45 | 54.3  | 56.0                                    | 54.3                        | 54.0                                    | 0.3              |
|                            | 05.45-05.50 | 53.8  | 59.3                                    | 53.8                        | 57.3                                    | -3.5             |
|                            | 05.50-05.55 | 51.6  | 59.9                                    | 51.6                        | 57.9                                    | -6.3             |
|                            | 05.55-06.00 | 49.6  | 59.6                                    | 49.6                        | 57.6                                    | -8.0             |
| 20.                        | 06.00-07.00 | 52.6  | 52.4                                    | 39.0                        | 52.8                                    | -13.8            |
| 21.                        | 07.00-08.00 | 53.8  | 53.4                                    | 42.4                        | 50.7                                    | -8.2             |
| 22.                        | 08.00-09.00 | 54.1  | 53.9                                    | 41.5                        | 52.1                                    | -10.5            |
| 23.                        | 09.00-10.00 | 52.4  | 55.0                                    | 52.4                        | 52.5                                    | -0.1             |
| 24.                        | 10.00-11.00 | 52.8  | 56.0                                    | 52.8                        | 51.5                                    | 1.3              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

*Wannasiri S.*  
Wannasiri Suriyawong



*Somchai P.*  
Somchai Piyavorasakul  
General Manager

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/8-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(8/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดปึงศรีเทพรัดนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 18-19/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 10.00-11.00 | 52.0  | 56.0                                    | 52.0                        | 52.1                                    | -0.1             |
| 2.                         | 11.00-12.00 | 53.1  | 58.7                                    | 53.1                        | 54.9                                    | -1.8             |
| 3.                         | 12.00-13.00 | 52.8  | 53.0                                    | 52.8                        | 50.7                                    | 2.1              |
| 4.                         | 13.00-14.00 | 55.2  | 52.0                                    | 52.3                        | 50.6                                    | 1.7              |
| 5.                         | 14.00-15.00 | 56.6  | 54.3                                    | 52.7                        | 50.2                                    | 2.6              |
| 6.                         | 15.00-16.00 | 57.6  | 55.4                                    | 53.6                        | 49.3                                    | 4.3              |
| 7.                         | 16.00-17.00 | 54.7  | 53.8                                    | 47.6                        | 47.1                                    | 0.5              |
| 8.                         | 17.00-18.00 | 56.9  | 52.6                                    | 55.0                        | 46.8                                    | 8.2              |
| 9.                         | 18.00-19.00 | 56.7  | 52.7                                    | 54.4                        | 49.7                                    | 4.7              |
| 10.                        | 19.00-20.00 | 56.8  | 50.6                                    | 55.7                        | 46.4                                    | 9.3              |
| 11.                        | 20.00-21.00 | 53.8  | 51.6                                    | 49.9                        | 50.2                                    | -0.3             |
| 12.                        | 21.00-22.00 | 54.6  | 48.8                                    | 53.2                        | 47.2                                    | 6.0              |
| 13.                        | 22.00-22.05 | 52.5  | 55.7                                    | 52.5                        | 52.6                                    | -0.1             |
|                            | 22.05-22.10 | 52.5  | 50.7                                    | 50.8                        | 49.0                                    | 1.8              |
|                            | 22.10-22.15 | 52.3  | 49.7                                    | 51.8                        | 47.0                                    | 4.8              |
|                            | 22.15-22.20 | 52.7  | 51.5                                    | 49.5                        | 48.8                                    | 0.7              |
|                            | 22.20-22.25 | 52.4  | 50.2                                    | 51.4                        | 47.5                                    | 3.9              |
|                            | 22.25-22.30 | 52.4  | 50.3                                    | 51.2                        | 48.6                                    | 2.6              |
|                            | 22.30-22.35 | 52.5  | 55.6                                    | 52.5                        | 50.8                                    | 1.7              |
|                            | 22.35-22.40 | 52.7  | 50.6                                    | 51.5                        | 47.9                                    | 3.6              |
|                            | 22.40-22.45 | 52.5  | 49.1                                    | 52.8                        | 46.4                                    | 6.4              |
|                            | 22.45-22.50 | 52.4  | 49.2                                    | 52.6                        | 47.0                                    | 5.6              |
|                            | 22.50-22.55 | 52.4  | 54.3                                    | 52.4                        | 52.6                                    | -0.2             |
|                            | 22.55-23.00 | 52.2  | 50.4                                    | 50.5                        | 48.8                                    | 1.7              |
| 14.                        | 23.00-23.05 | 52.3  | 49.8                                    | 51.7                        | 46.1                                    | 5.6              |
|                            | 23.05-23.10 | 52.6  | 48.6                                    | 53.4                        | 45.9                                    | 7.5              |
|                            | 23.10-23.15 | 52.2  | 49.3                                    | 52.1                        | 46.6                                    | 5.5              |
|                            | 23.15-23.20 | 52.0  | 49.0                                    | 52.0                        | 46.3                                    | 5.7              |
|                            | 23.20-23.25 | 52.6  | 53.0                                    | 52.6                        | 51.8                                    | 0.8              |
|                            | 23.25-23.30 | 52.5  | 49.1                                    | 52.8                        | 47.4                                    | 5.4              |
|                            | 23.30-23.35 | 52.6  | 50.8                                    | 50.9                        | 48.1                                    | 2.8              |
|                            | 23.35-23.40 | 52.3  | 49.8                                    | 51.7                        | 47.3                                    | 4.4              |
|                            | 23.40-23.45 | 52.3  | 49.3                                    | 52.3                        | 47.6                                    | 4.7              |
|                            | 23.45-23.50 | 52.2  | 49.1                                    | 52.3                        | 48.4                                    | 3.9              |
|                            | 23.50-23.55 | 52.0  | 50.2                                    | 50.3                        | 48.2                                    | 2.1              |
|                            | 23.55-00.00 | 52.6  | 50.1                                    | 52.0                        | 48.6                                    | 3.4              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(8/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 18-19/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 15.                        | 00.00-00.05 | 53.0  | 53.2                                    | 53.0                        | 49.5                                    | 3.5              |
|                            | 00.05-00.10 | 52.6  | 53.7                                    | 52.6                        | 52.3                                    | 0.3              |
|                            | 00.10-00.15 | 52.6  | 51.0                                    | 50.5                        | 48.3                                    | 2.2              |
|                            | 00.15-00.20 | 52.2  | 47.6                                    | 53.4                        | 45.9                                    | 7.4              |
|                            | 00.20-00.25 | 51.9  | 48.7                                    | 52.1                        | 46.0                                    | 6.1              |
|                            | 00.25-00.30 | 52.1  | 49.4                                    | 51.8                        | 46.3                                    | 5.5              |
|                            | 00.30-00.35 | 52.3  | 55.4                                    | 52.3                        | 52.7                                    | -0.4             |
|                            | 00.35-00.40 | 52.1  | 53.9                                    | 52.1                        | 50.2                                    | 1.9              |
|                            | 00.40-00.45 | 51.9  | 50.2                                    | 50.0                        | 47.5                                    | 2.5              |
|                            | 00.45-00.50 | 52.2  | 54.6                                    | 52.2                        | 52.4                                    | -0.2             |
|                            | 00.50-00.55 | 52.3  | 51.3                                    | 48.4                        | 47.9                                    | 0.5              |
|                            | 00.55-01.00 | 52.5  | 53.6                                    | 52.5                        | 51.2                                    | 1.3              |
| 16.                        | 01.00-01.05 | 52.2  | 48.0                                    | 53.1                        | 45.3                                    | 7.8              |
|                            | 01.05-01.10 | 52.4  | 53.4                                    | 52.4                        | 51.6                                    | 0.8              |
|                            | 01.10-01.15 | 52.6  | 53.6                                    | 52.6                        | 51.1                                    | 1.5              |
|                            | 01.15-01.20 | 52.6  | 50.3                                    | 51.7                        | 48.9                                    | 2.8              |
|                            | 01.20-01.25 | 52.6  | 51.2                                    | 50.0                        | 49.7                                    | 0.3              |
|                            | 01.25-01.30 | 52.5  | 50.6                                    | 51.0                        | 48.9                                    | 2.1              |
|                            | 01.30-01.35 | 52.6  | 49.1                                    | 53.0                        | 46.4                                    | 6.6              |
|                            | 01.35-01.40 | 52.4  | 51.7                                    | 47.1                        | 49.0                                    | -1.9             |
|                            | 01.40-01.45 | 52.6  | 48.5                                    | 53.5                        | 45.8                                    | 7.7              |
|                            | 01.45-01.50 | 52.4  | 49.3                                    | 52.5                        | 46.6                                    | 5.9              |
|                            | 01.50-01.55 | 52.6  | 56.7                                    | 52.6                        | 54.0                                    | -1.4             |
|                            | 01.55-02.00 | 52.4  | 55.9                                    | 52.4                        | 53.2                                    | -0.8             |
| 17.                        | 02.00-02.05 | 52.2  | 55.3                                    | 52.2                        | 52.6                                    | -0.4             |
|                            | 02.05-02.10 | 53.8  | 53.9                                    | 53.8                        | 51.2                                    | 2.6              |
|                            | 02.10-02.15 | 51.9  | 48.1                                    | 52.6                        | 45.4                                    | 7.2              |
|                            | 02.15-02.20 | 51.8  | 47.5                                    | 52.8                        | 44.8                                    | 8.0              |
|                            | 02.20-02.25 | 51.8  | 53.4                                    | 51.8                        | 50.7                                    | 1.1              |
|                            | 02.25-02.30 | 51.5  | 48.4                                    | 51.6                        | 45.7                                    | 5.9              |
|                            | 02.30-02.35 | 51.8  | 47.5                                    | 52.8                        | 44.8                                    | 8.0              |
|                            | 02.35-02.40 | 51.9  | 47.2                                    | 53.1                        | 44.5                                    | 8.6              |
|                            | 02.40-02.45 | 51.9  | 47.2                                    | 53.1                        | 46.3                                    | 6.8              |
|                            | 02.45-02.50 | 51.5  | 48.9                                    | 51.0                        | 46.2                                    | 4.8              |
|                            | 02.50-02.55 | 51.8  | 49.2                                    | 51.3                        | 47.3                                    | 4.0              |
|                            | 02.55-03.00 | 51.5  | 47.9                                    | 52.0                        | 46.2                                    | 5.8              |
| 18.                        | 03.00-03.05 | 51.6  | 48.8                                    | 51.4                        | 46.1                                    | 5.3              |
|                            | 03.05-03.10 | 52.1  | 48.0                                    | 53.0                        | 45.3                                    | 7.7              |
|                            | 03.10-03.15 | 51.6  | 47.5                                    | 52.5                        | 46.2                                    | 6.3              |
|                            | 03.15-03.20 | 51.5  | 48.7                                    | 51.3                        | 46.3                                    | 5.0              |
|                            | 03.20-03.25 | 51.6  | 48.2                                    | 51.9                        | 45.5                                    | 6.4              |
|                            | 03.25-03.30 | 51.7  | 48.4                                    | 52.0                        | 45.7                                    | 6.3              |
|                            | 03.30-03.35 | 51.7  | 47.7                                    | 52.5                        | 45.0                                    | 7.5              |
|                            | 03.35-03.40 | 51.7  | 49.1                                    | 51.2                        | 46.4                                    | 4.8              |
|                            | 03.40-03.45 | 51.6  | 47.6                                    | 52.4                        | 44.9                                    | 7.5              |
|                            | 03.45-03.50 | 51.4  | 49.0                                    | 50.7                        | 46.3                                    | 4.4              |
|                            | 03.50-03.55 | 51.5  | 49.4                                    | 50.3                        | 46.7                                    | 3.6              |
|                            | 03.55-04.00 | 51.4  | 47.3                                    | 52.3                        | 44.6                                    | 7.7              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

(8/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 18-19/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 19.                        | 04.00-04.05 | 51.5  | 48.0                                    | 51.9                        | 46.8                                    | 5.1              |
|                            | 04.05-04.10 | 51.4  | 48.0                                    | 51.7                        | 45.3                                    | 6.4              |
|                            | 04.10-04.15 | 52.0  | 48.3                                    | 52.6                        | 45.6                                    | 7.0              |
|                            | 04.15-04.20 | 52.3  | 48.9                                    | 52.6                        | 46.2                                    | 6.4              |
|                            | 04.20-04.25 | 52.2  | 48.5                                    | 52.8                        | 45.8                                    | 7.0              |
|                            | 04.25-04.30 | 52.0  | 50.3                                    | 50.1                        | 47.6                                    | 2.5              |
|                            | 04.30-04.35 | 51.9  | 50.0                                    | 50.4                        | 47.3                                    | 3.1              |
|                            | 04.35-04.40 | 51.9  | 50.2                                    | 50.0                        | 47.5                                    | 2.5              |
|                            | 04.40-04.45 | 51.6  | 57.1                                    | 51.6                        | 54.4                                    | -2.8             |
|                            | 04.45-04.50 | 51.5  | 50.6                                    | 47.2                        | 47.9                                    | -0.7             |
| 20.                        | 04.50-04.55 | 51.6  | 50.9                                    | 46.3                        | 48.2                                    | -1.9             |
|                            | 04.55-05.00 | 51.7  | 49.7                                    | 50.4                        | 47.0                                    | 3.4              |
|                            | 05.00-05.05 | 51.8  | 50.0                                    | 50.1                        | 47.3                                    | 2.8              |
|                            | 05.05-05.10 | 51.6  | 50.6                                    | 47.7                        | 47.9                                    | -0.2             |
|                            | 05.10-05.15 | 51.9  | 52.9                                    | 51.9                        | 50.2                                    | 1.7              |
|                            | 05.15-05.20 | 51.6  | 51.9                                    | 51.6                        | 49.2                                    | 2.4              |
|                            | 05.20-05.25 | 51.5  | 52.8                                    | 51.5                        | 50.1                                    | 1.4              |
|                            | 05.25-05.30 | 51.8  | 52.2                                    | 51.8                        | 49.5                                    | 2.3              |
|                            | 05.30-05.35 | 51.4  | 54.1                                    | 51.4                        | 51.4                                    | 0.0              |
|                            | 05.35-05.40 | 51.7  | 53.3                                    | 51.7                        | 50.6                                    | 1.1              |
| 21.                        | 05.40-05.45 | 51.5  | 54.0                                    | 51.5                        | 51.3                                    | 0.2              |
|                            | 05.45-05.50 | 51.5  | 53.2                                    | 51.5                        | 51.7                                    | -0.2             |
|                            | 05.50-05.55 | 51.2  | 50.9                                    | 42.4                        | 48.2                                    | -5.8             |
|                            | 05.55-06.00 | 51.5  | 50.6                                    | 47.2                        | 47.9                                    | -0.7             |
|                            | 06.00-07.00 | 51.7  | 51.3                                    | 41.6                        | 50.4                                    | -8.8             |
|                            | 07.00-08.00 | 51.3  | 53.4                                    | 51.3                        | 51.3                                    | 0.0              |
|                            | 08.00-09.00 | 51.1  | 53.9                                    | 51.1                        | 52.7                                    | -1.6             |
|                            | 09.00-10.00 | 57.9  | 55.0                                    | 54.7                        | 53.1                                    | 1.6              |
|                            |             |   |   |                             |   |                  |
|                            |             |   |   |                             |   |                  |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : (1) Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

(2) Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Thai Environmental Technic Limited

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/9-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(9/1-3)

| Item                       | Time        | Result (dB(A))                             |                                  |                         |                                      |                  |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                       |                                  |                         |                                      |                  |
|                            |             | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 19-20/09/23                                | 18-19/05/23                      | -                       | 18-19/05/23                          | -                |
| 1.                         | 10.00-11.00 | 58.3                                       | 56.0                             | 54.3                    | 52.1                                 | 2.2              |
| 2.                         | 11.00-12.00 | 57.9                                       | 58.7                             | 57.9                    | 54.9                                 | 3.0              |
| 3.                         | 12.00-13.00 | 58.3                                       | 53.0                             | 56.7                    | 50.7                                 | 6.0              |
| 4.                         | 13.00-14.00 | 56.8                                       | 52.0                             | 55.1                    | 50.6                                 | 4.5              |
| 5.                         | 14.00-15.00 | 58.7                                       | 54.3                             | 56.7                    | 50.2                                 | 6.6              |
| 6.                         | 15.00-16.00 | 59.6                                       | 55.4                             | 57.6                    | 49.3                                 | 8.3              |
| 7.                         | 16.00-17.00 | 58.2                                       | 53.8                             | 56.3                    | 47.1                                 | 9.2              |
| 8.                         | 17.00-18.00 | 57.2                                       | 52.6                             | 55.4                    | 46.8                                 | 8.6              |
| 9.                         | 18.00-19.00 | 57.2                                       | 52.7                             | 55.2                    | 49.7                                 | 5.5              |
| 10.                        | 19.00-20.00 | 56.1                                       | 50.6                             | 54.7                    | 46.4                                 | 8.3              |
| 11.                        | 20.00-21.00 | 60.5                                       | 51.6                             | 59.9                    | 50.2                                 | 9.7              |
| 12.                        | 21.00-22.00 | 52.5                                       | 48.8                             | 50.1                    | 47.2                                 | 2.9              |
| 13.                        | 22.00-22.05 | 52.6                                       | 55.7                             | 52.6                    | 52.6                                 | 0.0              |
|                            | 22.05-22.10 | 52.5                                       | 50.7                             | 50.8                    | 49.0                                 | 1.8              |
|                            | 22.10-22.15 | 52.3                                       | 49.7                             | 51.8                    | 47.0                                 | 4.8              |
|                            | 22.15-22.20 | 52.4                                       | 51.5                             | 48.1                    | 48.8                                 | -0.7             |
|                            | 22.20-22.25 | 52.2                                       | 50.2                             | 50.9                    | 47.5                                 | 3.4              |
|                            | 22.25-22.30 | 52.1                                       | 50.3                             | 50.4                    | 48.6                                 | 1.8              |
|                            | 22.30-22.35 | 51.8                                       | 55.6                             | 51.8                    | 50.8                                 | 1.0              |
|                            | 22.35-22.40 | 51.9                                       | 50.6                             | 49.0                    | 47.9                                 | 1.1              |
|                            | 22.40-22.45 | 52.0                                       | 49.1                             | 51.9                    | 46.4                                 | 5.5              |
|                            | 22.45-22.50 | 51.9                                       | 49.2                             | 51.6                    | 47.0                                 | 4.6              |
|                            | 22.50-22.55 | 52.1                                       | 54.3                             | 52.1                    | 52.6                                 | -0.5             |
|                            | 22.55-23.00 | 51.9                                       | 50.4                             | 49.6                    | 48.8                                 | 0.8              |
| 14.                        | 23.00-23.05 | 52.0                                       | 49.8                             | 51.0                    | 46.1                                 | 4.9              |
|                            | 23.05-23.10 | 51.8                                       | 48.6                             | 52.0                    | 45.9                                 | 6.1              |
|                            | 23.10-23.15 | 52.0                                       | 49.3                             | 51.7                    | 46.6                                 | 5.1              |
|                            | 23.15-23.20 | 51.8                                       | 49.0                             | 51.6                    | 46.3                                 | 5.3              |
|                            | 23.20-23.25 | 52.0                                       | 53.0                             | 52.0                    | 51.8                                 | 0.2              |
|                            | 23.25-23.30 | 52.2                                       | 49.1                             | 52.3                    | 47.4                                 | 4.9              |
|                            | 23.30-23.35 | 52.1                                       | 50.8                             | 49.2                    | 48.1                                 | 1.1              |
|                            | 23.35-23.40 | 52.4                                       | 49.8                             | 51.9                    | 47.3                                 | 4.6              |
|                            | 23.40-23.45 | 51.6                                       | 49.3                             | 50.7                    | 47.6                                 | 3.1              |
|                            | 23.45-23.50 | 52.2                                       | 49.1                             | 52.3                    | 48.4                                 | 3.9              |
|                            | 23.50-23.55 | 51.9                                       | 50.2                             | 50.0                    | 48.2                                 | 1.8              |
|                            | 23.55-00.00 | 56.0                                       | 50.1                             | 57.7                    | 48.6                                 | 9.1              |
| Standard <sup>(1)(2)</sup> |             |  |                                  |                         |                                      | 10               |

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## TEST REPORT

(9/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 19-20/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 15.                        | 00.00-00.05 | 57.1  | 53.2                                    | 57.8                        | 49.5                                    | 8.3              |
|                            | 00.05-00.10 | 50.6  | 53.7                                    | 50.6                        | 52.3                                    | -1.7             |
|                            | 00.10-00.15 | 51.1  | 51.0                                    | 37.7                        | 48.3                                    | -10.6            |
|                            | 00.15-00.20 | 50.9  | 47.6                                    | 51.2                        | 45.9                                    | 5.3              |
|                            | 00.20-00.25 | 50.5  | 48.7                                    | 48.8                        | 46.0                                    | 2.8              |
|                            | 00.25-00.30 | 50.4  | 49.4                                    | 46.5                        | 46.3                                    | 0.2              |
|                            | 00.30-00.35 | 50.4  | 55.4                                    | 50.4                        | 52.7                                    | -2.3             |
|                            | 00.35-00.40 | 51.0  | 53.9                                    | 51.0                        | 50.2                                    | 0.8              |
|                            | 00.40-00.45 | 51.4  | 50.2                                    | 48.2                        | 47.5                                    | 0.7              |
|                            | 00.45-00.50 | 51.0  | 54.6                                    | 51.0                        | 52.4                                    | -1.4             |
| 16.                        | 00.50-00.55 | 51.1  | 51.3                                    | 51.1                        | 47.9                                    | 3.2              |
|                            | 00.55-01.00 | 52.0  | 53.6                                    | 52.0                        | 51.2                                    | 0.8              |
|                            | 01.00-01.05 | 52.0  | 48.0                                    | 52.8                        | 45.3                                    | 7.5              |
|                            | 01.05-01.10 | 52.2  | 53.4                                    | 52.2                        | 51.6                                    | 0.6              |
|                            | 01.10-01.15 | 51.6  | 53.6                                    | 51.6                        | 51.1                                    | 0.5              |
|                            | 01.15-01.20 | 52.0  | 50.3                                    | 50.1                        | 48.9                                    | 1.2              |
|                            | 01.20-01.25 | 51.9  | 51.2                                    | 46.6                        | 49.7                                    | -3.1             |
|                            | 01.25-01.30 | 52.0  | 50.6                                    | 49.4                        | 48.9                                    | 0.5              |
|                            | 01.30-01.35 | 52.4  | 49.1                                    | 52.7                        | 46.4                                    | 6.3              |
|                            | 01.35-01.40 | 54.3  | 51.7                                    | 53.8                        | 49.0                                    | 4.8              |
| 17.                        | 01.40-01.45 | 53.4  | 48.5                                    | 54.7                        | 45.8                                    | 8.9              |
|                            | 01.45-01.50 | 51.8  | 49.3                                    | 51.2                        | 46.6                                    | 4.6              |
|                            | 01.50-01.55 | 53.7  | 56.7                                    | 53.7                        | 54.0                                    | -0.3             |
|                            | 01.55-02.00 | 56.1  | 55.9                                    | 45.6                        | 53.2                                    | -7.6             |
|                            | 02.00-02.05 | 57.7  | 55.3                                    | 57.0                        | 52.6                                    | 4.4              |
|                            | 02.05-02.10 | 55.4  | 53.9                                    | 53.1                        | 51.2                                    | 1.8              |
|                            | 02.10-02.15 | 52.2  | 48.1                                    | 53.1                        | 45.4                                    | 7.7              |
|                            | 02.15-02.20 | 51.9  | 47.5                                    | 52.9                        | 44.8                                    | 8.1              |
|                            | 02.20-02.25 | 51.8  | 53.4                                    | 51.8                        | 50.7                                    | 1.1              |
|                            | 02.25-02.30 | 52.3  | 48.4                                    | 53.0                        | 45.7                                    | 7.3              |
| 18.                        | 02.30-02.35 | 51.9  | 47.5                                    | 52.9                        | 44.8                                    | 8.1              |
|                            | 02.35-02.40 | 52.0  | 47.2                                    | 53.3                        | 44.5                                    | 8.8              |
|                            | 02.40-02.45 | 53.6  | 47.2                                    | 55.5                        | 46.3                                    | 9.2              |
|                            | 02.45-02.50 | 53.7  | 48.9                                    | 55.0                        | 46.2                                    | 8.8              |
|                            | 02.50-02.55 | 54.8  | 49.2                                    | 56.4                        | 47.3                                    | 9.1              |
|                            | 02.55-03.00 | 52.9  | 47.9                                    | 54.2                        | 46.2                                    | 8.0              |
|                            | 03.00-03.05 | 52.8  | 48.8                                    | 53.6                        | 46.1                                    | 7.5              |
|                            | 03.05-03.10 | 53.0  | 48.0                                    | 54.3                        | 45.3                                    | 9.0              |
|                            | 03.10-03.15 | 53.9  | 47.5                                    | 55.8                        | 46.2                                    | 9.6              |
|                            | 03.15-03.20 | 53.9  | 48.7                                    | 55.3                        | 46.3                                    | 9.0              |
|                            | 03.20-03.25 | 50.6  | 48.2                                    | 49.9                        | 45.5                                    | 4.4              |
|                            | 03.25-03.30 | 51.2  | 48.4                                    | 51.0                        | 45.7                                    | 5.3              |
|                            | 03.30-03.35 | 51.2  | 47.7                                    | 51.6                        | 45.0                                    | 6.6              |
|                            | 03.35-03.40 | 51.2  | 49.1                                    | 50.0                        | 46.4                                    | 3.6              |
|                            | 03.40-03.45 | 50.8  | 47.6                                    | 51.0                        | 44.9                                    | 6.1              |
|                            | 03.45-03.50 | 51.1  | 49.0                                    | 49.9                        | 46.3                                    | 3.6              |
|                            | 03.50-03.55 | 50.8  | 49.4                                    | 48.2                        | 46.7                                    | 1.5              |
|                            | 03.55-04.00 | 50.9  | 47.3                                    | 51.4                        | 44.6                                    | 6.8              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(9/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 19-20/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 19.                        | 04.00-04.05 | 51.1  | 48.0                                    | 51.2                        | 46.8                                    | 4.4              |
|                            | 04.05-04.10 | 51.4  | 48.0                                    | 51.7                        | 45.3                                    | 6.4              |
|                            | 04.10-04.15 | 51.4  | 48.3                                    | 51.5                        | 45.6                                    | 5.9              |
|                            | 04.15-04.20 | 51.0  | 48.9                                    | 49.8                        | 46.2                                    | 3.6              |
|                            | 04.20-04.25 | 51.9  | 48.5                                    | 52.2                        | 45.8                                    | 6.4              |
|                            | 04.25-04.30 | 51.9  | 50.3                                    | 49.8                        | 47.6                                    | 2.2              |
|                            | 04.30-04.35 | 52.0  | 50.0                                    | 50.7                        | 47.3                                    | 3.4              |
|                            | 04.35-04.40 | 51.9  | 50.2                                    | 50.0                        | 47.5                                    | 2.5              |
|                            | 04.40-04.45 | 54.3  | 57.1                                    | 54.3                        | 54.4                                    | -0.1             |
|                            | 04.45-04.50 | 53.7  | 50.6                                    | 53.8                        | 47.9                                    | 5.9              |
|                            | 04.50-04.55 | 55.5  | 50.9                                    | 56.7                        | 48.2                                    | 8.4              |
|                            | 04.55-05.00 | 54.1  | 49.7                                    | 55.1                        | 47.0                                    | 8.1              |
| 20.                        | 05.00-05.05 | 52.8  | 50.0                                    | 52.6                        | 47.3                                    | 5.3              |
|                            | 05.05-05.10 | 53.6  | 50.6                                    | 53.6                        | 47.9                                    | 5.7              |
|                            | 05.10-05.15 | 52.2  | 52.9                                    | 52.2                        | 50.2                                    | 2.0              |
|                            | 05.15-05.20 | 51.9  | 51.9                                    | 51.9                        | 49.2                                    | 2.7              |
|                            | 05.20-05.25 | 51.9  | 52.8                                    | 51.9                        | 50.1                                    | 1.8              |
|                            | 05.25-05.30 | 52.1  | 52.2                                    | 52.1                        | 49.5                                    | 2.6              |
|                            | 05.30-05.35 | 51.8  | 54.1                                    | 51.8                        | 51.4                                    | 0.4              |
|                            | 05.35-05.40 | 52.2  | 53.3                                    | 52.2                        | 50.6                                    | 1.6              |
|                            | 05.40-05.45 | 52.2  | 54.0                                    | 52.2                        | 51.3                                    | 0.9              |
|                            | 05.45-05.50 | 51.7  | 53.2                                    | 51.7                        | 51.7                                    | 0.0              |
|                            | 05.50-05.55 | 52.3  | 50.9                                    | 49.7                        | 48.2                                    | 1.5              |
|                            | 05.55-06.00 | 52.0  | 50.6                                    | 49.4                        | 47.9                                    | 1.5              |
| 21.                        | 06.00-07.00 | 51.5  | 51.3                                    | 37.5                        | 50.4                                    | -12.9            |
| 22.                        | 07.00-08.00 | 53.6  | 53.4                                    | 37.8                        | 51.3                                    | -13.4            |
| 23.                        | 08.00-09.00 | 52.5  | 53.9                                    | 52.5                        | 52.7                                    | -0.1             |
| 24.                        | 09.00-10.00 | 53.6  | 55.0                                    | 53.6                        | 53.1                                    | 0.5              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/10-21  
 Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
 Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
 Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
 Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(10/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 20-21/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 10.00-11.00 | 53.8  | 56.0                                    | 53.8                        | 52.1                                    | 1.7              |
| 2.                         | 11.00-12.00 | 53.0  | 58.7                                    | 53.0                        | 54.9                                    | -1.9             |
| 3.                         | 12.00-13.00 | 53.3  | 53.0                                    | 41.4                        | 50.7                                    | -9.3             |
| 4.                         | 13.00-14.00 | 53.6  | 52.0                                    | 48.4                        | 50.6                                    | -2.2             |
| 5.                         | 14.00-15.00 | 52.7  | 54.3                                    | 52.7                        | 50.2                                    | 2.6              |
| 6.                         | 15.00-16.00 | 52.7  | 55.4                                    | 52.7                        | 49.3                                    | 3.4              |
| 7.                         | 16.00-17.00 | 52.5  | 53.8                                    | 52.5                        | 47.1                                    | 5.4              |
| 8.                         | 17.00-18.00 | 55.8  | 52.6                                    | 53.0                        | 46.8                                    | 6.2              |
| 9.                         | 18.00-19.00 | 54.3  | 52.7                                    | 49.1                        | 49.7                                    | -0.6             |
| 10.                        | 19.00-20.00 | 53.8  | 50.6                                    | 51.1                        | 46.4                                    | 4.7              |
| 11.                        | 20.00-21.00 | 54.3  | 51.6                                    | 51.0                        | 50.2                                    | 0.8              |
| 12.                        | 21.00-22.00 | 53.1  | 48.8                                    | 51.1                        | 47.2                                    | 3.9              |
| 13.                        | 22.00-22.05 | 61.0  | 55.7                                    | 62.5                        | 52.6                                    | 9.9              |
|                            | 22.05-22.10 | 57.0  | 50.7                                    | 58.8                        | 49.0                                    | 9.8              |
|                            | 22.10-22.15 | 55.2  | 49.7                                    | 56.8                        | 47.0                                    | 9.8              |
|                            | 22.15-22.20 | 53.9  | 51.5                                    | 53.2                        | 48.8                                    | 4.4              |
|                            | 22.20-22.25 | 53.3  | 50.2                                    | 53.4                        | 47.5                                    | 5.9              |
|                            | 22.25-22.30 | 53.2  | 50.3                                    | 53.1                        | 48.6                                    | 4.5              |
|                            | 22.30-22.35 | 59.7  | 55.6                                    | 60.6                        | 50.8                                    | 9.8              |
|                            | 22.35-22.40 | 55.7  | 50.6                                    | 57.1                        | 47.9                                    | 9.2              |
|                            | 22.40-22.45 | 52.7  | 49.1                                    | 53.2                        | 46.4                                    | 6.8              |
|                            | 22.45-22.50 | 52.5  | 49.2                                    | 52.8                        | 47.0                                    | 5.8              |
|                            | 22.50-22.55 | 53.9  | 54.3                                    | 53.9                        | 52.6                                    | 1.3              |
|                            | 22.55-23.00 | 53.4  | 50.4                                    | 53.4                        | 48.8                                    | 4.6              |
| 14.                        | 23.00-23.05 | 52.7  | 49.8                                    | 52.6                        | 46.1                                    | 6.5              |
|                            | 23.05-23.10 | 52.5  | 48.6                                    | 53.2                        | 45.9                                    | 7.3              |
|                            | 23.10-23.15 | 53.0  | 49.3                                    | 53.6                        | 46.6                                    | 7.0              |
|                            | 23.15-23.20 | 53.6  | 49.0                                    | 54.8                        | 46.3                                    | 8.4              |
|                            | 23.20-23.25 | 53.7  | 53.0                                    | 48.4                        | 51.8                                    | -3.4             |
|                            | 23.25-23.30 | 53.6  | 49.1                                    | 54.7                        | 47.4                                    | 7.3              |
|                            | 23.30-23.35 | 53.9  | 50.8                                    | 54.0                        | 48.1                                    | 5.9              |
|                            | 23.35-23.40 | 55.0  | 49.8                                    | 56.4                        | 47.3                                    | 9.1              |
|                            | 23.40-23.45 | 55.6  | 49.3                                    | 57.4                        | 47.6                                    | 9.8              |
|                            | 23.45-23.50 | 55.8  | 49.1                                    | 57.8                        | 48.4                                    | 9.4              |
|                            | 23.50-23.55 | 55.7  | 50.2                                    | 57.3                        | 48.2                                    | 9.1              |
|                            | 23.55-00.00 | 55.4  | 50.1                                    | 56.9                        | 48.6                                    | 8.3              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(10/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 20-21/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 15.                        | 00.00-00.05 | 56.0  | 53.2                                    | 55.8                        | 49.5                                    | 6.3              |
|                            | 00.05-00.10 | 60.0  | 53.7                                    | 61.8                        | 52.3                                    | 9.5              |
|                            | 00.10-00.15 | 52.2  | 51.0                                    | 49.0                        | 48.3                                    | 0.7              |
|                            | 00.15-00.20 | 52.4  | 47.6                                    | 53.7                        | 45.9                                    | 7.8              |
|                            | 00.20-00.25 | 52.3  | 48.7                                    | 52.8                        | 46.0                                    | 6.8              |
|                            | 00.25-00.30 | 52.5  | 49.4                                    | 52.6                        | 46.3                                    | 6.3              |
|                            | 00.30-00.35 | 58.2  | 55.4                                    | 58.0                        | 52.7                                    | 5.3              |
|                            | 00.35-00.40 | 57.5  | 53.9                                    | 58.0                        | 50.2                                    | 7.8              |
|                            | 00.40-00.45 | 54.5  | 50.2                                    | 55.5                        | 47.5                                    | 8.0              |
|                            | 00.45-00.50 | 50.1  | 54.6                                    | 50.1                        | 52.4                                    | -2.3             |
| 16.                        | 00.50-00.55 | 50.5  | 51.3                                    | 50.5                        | 47.9                                    | 2.6              |
|                            | 00.55-01.00 | 50.4  | 53.6                                    | 50.4                        | 51.2                                    | -0.8             |
|                            | 01.00-01.05 | 52.8  | 48.0                                    | 54.1                        | 45.3                                    | 8.8              |
|                            | 01.05-01.10 | 59.2  | 53.4                                    | 60.9                        | 51.6                                    | 9.3              |
|                            | 01.10-01.15 | 59.0  | 53.6                                    | 60.5                        | 51.1                                    | 9.4              |
|                            | 01.15-01.20 | 56.4  | 50.3                                    | 58.2                        | 48.9                                    | 9.3              |
|                            | 01.20-01.25 | 51.2  | 51.2                                    | 51.2                        | 49.7                                    | 1.5              |
|                            | 01.25-01.30 | 50.6  | 50.6                                    | 50.6                        | 48.9                                    | 1.7              |
|                            | 01.30-01.35 | 51.9  | 49.1                                    | 51.7                        | 46.4                                    | 5.3              |
|                            | 01.35-01.40 | 50.4  | 51.7                                    | 50.4                        | 49.0                                    | 1.4              |
| 17.                        | 01.40-01.45 | 50.7  | 48.5                                    | 49.7                        | 45.8                                    | 3.9              |
|                            | 01.45-01.50 | 50.5  | 49.3                                    | 47.3                        | 46.6                                    | 0.7              |
|                            | 01.50-01.55 | 50.5  | 56.7                                    | 50.5                        | 54.0                                    | -3.5             |
|                            | 01.55-02.00 | 50.5  | 55.9                                    | 50.5                        | 53.2                                    | -2.7             |
|                            | 02.00-02.05 | 51.4  | 55.3                                    | 51.4                        | 52.6                                    | -1.2             |
|                            | 02.05-02.10 | 54.2  | 53.9                                    | 45.4                        | 51.2                                    | -5.8             |
|                            | 02.10-02.15 | 50.1  | 48.1                                    | 48.8                        | 45.4                                    | 3.4              |
|                            | 02.15-02.20 | 50.4  | 47.5                                    | 50.3                        | 44.8                                    | 5.5              |
|                            | 02.20-02.25 | 50.3  | 53.4                                    | 50.3                        | 50.7                                    | -0.4             |
|                            | 02.25-02.30 | 50.4  | 48.4                                    | 49.1                        | 45.7                                    | 3.4              |
| 18.                        | 02.30-02.35 | 50.8  | 47.5                                    | 51.1                        | 44.8                                    | 6.3              |
|                            | 02.35-02.40 | 50.2  | 47.2                                    | 50.2                        | 44.5                                    | 5.7              |
|                            | 02.40-02.45 | 50.8  | 47.2                                    | 51.3                        | 46.3                                    | 5.0              |
|                            | 02.45-02.50 | 50.2  | 48.9                                    | 47.3                        | 46.2                                    | 1.1              |
|                            | 02.50-02.55 | 51.1  | 49.2                                    | 49.6                        | 47.3                                    | 2.3              |
|                            | 02.55-03.00 | 51.4  | 47.9                                    | 51.8                        | 46.2                                    | 5.6              |
|                            | 03.00-03.05 | 51.3  | 48.8                                    | 50.7                        | 46.1                                    | 4.6              |
|                            | 03.05-03.10 | 50.2  | 48.0                                    | 49.2                        | 45.3                                    | 3.9              |
|                            | 03.10-03.15 | 51.2  | 47.5                                    | 51.8                        | 46.2                                    | 5.6              |
|                            | 03.15-03.20 | 50.5  | 48.7                                    | 48.8                        | 46.3                                    | 2.5              |
|                            | 03.20-03.25 | 50.7  | 48.2                                    | 50.1                        | 45.5                                    | 4.6              |
|                            | 03.25-03.30 | 50.2  | 48.4                                    | 48.5                        | 45.7                                    | 2.8              |
|                            | 03.30-03.35 | 51.0  | 47.7                                    | 51.3                        | 45.0                                    | 6.3              |
|                            | 03.35-03.40 | 50.8  | 49.1                                    | 48.9                        | 46.4                                    | 2.5              |
|                            | 03.40-03.45 | 51.0  | 47.6                                    | 51.3                        | 44.9                                    | 6.4              |
|                            | 03.45-03.50 | 51.2  | 49.0                                    | 50.2                        | 46.3                                    | 3.9              |
|                            | 03.50-03.55 | 51.0  | 49.4                                    | 48.9                        | 46.7                                    | 2.2              |
|                            | 03.55-04.00 | 51.4  | 47.3                                    | 52.3                        | 44.6                                    | 7.7              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(10/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 20-21/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 19.                        | 04.00-04.05 | 54.6  | 48.0                                    | 56.5                        | 46.8                                    | 9.7              |
|                            | 04.05-04.10 | 50.9  | 48.0                                    | 50.8                        | 45.3                                    | 5.5              |
|                            | 04.10-04.15 | 51.3  | 48.3                                    | 51.3                        | 45.6                                    | 5.7              |
|                            | 04.15-04.20 | 50.7  | 48.9                                    | 49.0                        | 46.2                                    | 2.8              |
|                            | 04.20-04.25 | 50.9  | 48.5                                    | 50.2                        | 45.8                                    | 4.4              |
|                            | 04.25-04.30 | 51.2  | 50.3                                    | 46.9                        | 47.6                                    | -0.7             |
|                            | 04.30-04.35 | 50.9  | 50.0                                    | 46.6                        | 47.3                                    | -0.7             |
|                            | 04.35-04.40 | 50.7  | 50.2                                    | 44.1                        | 47.5                                    | -3.4             |
|                            | 04.40-04.45 | 49.7  | 57.1                                    | 49.7                        | 54.4                                    | -4.7             |
|                            | 04.45-04.50 | 49.7  | 50.6                                    | 49.7                        | 47.9                                    | 1.8              |
| 20.                        | 04.50-04.55 | 49.5  | 50.9                                    | 49.5                        | 48.2                                    | 1.3              |
|                            | 04.55-05.00 | 49.3  | 49.7                                    | 49.3                        | 47.0                                    | 2.3              |
|                            | 05.00-05.05 | 51.7  | 50.0                                    | 49.8                        | 47.3                                    | 2.5              |
|                            | 05.05-05.10 | 51.5  | 50.6                                    | 47.2                        | 47.9                                    | -0.7             |
|                            | 05.10-05.15 | 51.4  | 52.9                                    | 51.4                        | 50.2                                    | 1.2              |
|                            | 05.15-05.20 | 51.2  | 51.9                                    | 51.2                        | 49.2                                    | 2.0              |
|                            | 05.20-05.25 | 50.8  | 52.8                                    | 50.8                        | 50.1                                    | 0.7              |
|                            | 05.25-05.30 | 51.2  | 52.2                                    | 51.2                        | 49.5                                    | 1.7              |
|                            | 05.30-05.35 | 51.2  | 54.1                                    | 51.2                        | 51.4                                    | -0.2             |
|                            | 05.35-05.40 | 50.9  | 53.3                                    | 50.9                        | 50.6                                    | 0.3              |
| 21.                        | 05.40-05.45 | 51.3  | 54.0                                    | 51.3                        | 51.3                                    | 0.0              |
|                            | 05.45-05.50 | 52.3  | 53.2                                    | 52.3                        | 51.7                                    | 0.6              |
|                            | 05.50-05.55 | 51.6  | 50.9                                    | 46.3                        | 48.2                                    | -1.9             |
|                            | 05.55-06.00 | 52.8  | 50.6                                    | 51.8                        | 47.9                                    | 3.9              |
| 22.                        | 06.00-07.00 | 51.6  | 51.3                                    | 40.5                        | 50.4                                    | -9.9             |
| 23.                        | 07.00-08.00 | 50.8  | 53.4                                    | 50.8                        | 51.3                                    | -0.4             |
| 24.                        | 08.00-09.00 | 50.6  | 53.9                                    | 50.6                        | 52.7                                    | -2.1             |
|                            | 09.00-10.00 | 52.4  | 55.0                                    | 52.4                        | 53.1                                    | -0.8             |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : (1) Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

(2) Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Thai Environmental Technic Limited

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/11-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอสรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(11/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 21-22/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 10.00-11.00 | 52.5  | 56.0                                    | 52.5                        | 52.1                                    | 0.4              |
| 2.                         | 11.00-12.00 | 58.9  | 58.7                                    | 46.8                        | 54.9                                    | -8.1             |
| 3.                         | 12.00-13.00 | 58.6  | 53.0                                    | 57.2                        | 50.7                                    | 6.5              |
| 4.                         | 13.00-14.00 | 60.3  | 52.0                                    | 59.6                        | 50.6                                    | 9.0              |
| 5.                         | 14.00-15.00 | 57.6  | 54.3                                    | 55.0                        | 50.2                                    | 4.8              |
| 6.                         | 15.00-16.00 | 55.0  | 55.4                                    | 55.0                        | 49.3                                    | 5.6              |
| 7.                         | 16.00-17.00 | 53.6  | 53.8                                    | 53.6                        | 47.1                                    | 6.6              |
| 8.                         | 17.00-18.00 | 53.3  | 52.6                                    | 45.0                        | 46.8                                    | -1.8             |
| 9.                         | 18.00-19.00 | 52.9  | 52.7                                    | 39.2                        | 49.7                                    | -10.5            |
| 10.                        | 19.00-20.00 | 53.0  | 50.6                                    | 49.4                        | 46.4                                    | 3.0              |
| 11.                        | 20.00-21.00 | 52.7  | 51.6                                    | 46.3                        | 50.2                                    | -3.9             |
| 12.                        | 21.00-22.00 | 53.2  | 48.8                                    | 51.2                        | 47.2                                    | 4.0              |
| 13.                        | 22.00-22.05 | 53.5  | 55.7                                    | 53.5                        | 52.6                                    | 0.9              |
|                            | 22.05-22.10 | 54.1  | 50.7                                    | 54.4                        | 49.0                                    | 5.4              |
|                            | 22.10-22.15 | 54.0  | 49.7                                    | 55.0                        | 47.0                                    | 8.0              |
|                            | 22.15-22.20 | 54.4  | 51.5                                    | 54.3                        | 48.8                                    | 5.5              |
|                            | 22.20-22.25 | 54.7  | 50.2                                    | 55.8                        | 47.5                                    | 8.3              |
|                            | 22.25-22.30 | 54.4  | 50.3                                    | 55.3                        | 48.6                                    | 6.7              |
|                            | 22.30-22.35 | 54.6  | 55.6                                    | 54.6                        | 50.8                                    | 3.8              |
|                            | 22.35-22.40 | 54.1  | 50.6                                    | 54.5                        | 47.9                                    | 6.6              |
|                            | 22.40-22.45 | 53.9  | 49.1                                    | 55.2                        | 46.4                                    | 8.8              |
|                            | 22.45-22.50 | 53.7  | 49.2                                    | 54.8                        | 47.0                                    | 7.8              |
|                            | 22.50-22.55 | 52.7  | 54.3                                    | 52.7                        | 52.6                                    | 0.1              |
|                            | 22.55-23.00 | 53.7  | 50.4                                    | 54.0                        | 48.8                                    | 5.2              |
| 14.                        | 23.00-23.05 | 52.6  | 49.8                                    | 52.4                        | 46.1                                    | 6.3              |
|                            | 23.05-23.10 | 52.7  | 48.6                                    | 53.6                        | 45.9                                    | 7.7              |
|                            | 23.10-23.15 | 52.6  | 49.3                                    | 52.9                        | 46.6                                    | 6.3              |
|                            | 23.15-23.20 | 52.5  | 49.0                                    | 52.9                        | 46.3                                    | 6.6              |
|                            | 23.20-23.25 | 53.0  | 53.0                                    | 53.0                        | 51.8                                    | 1.2              |
|                            | 23.25-23.30 | 54.2  | 49.1                                    | 55.6                        | 47.4                                    | 8.2              |
|                            | 23.30-23.35 | 53.9  | 50.8                                    | 54.0                        | 48.1                                    | 5.9              |
|                            | 23.35-23.40 | 53.9  | 49.8                                    | 54.8                        | 47.3                                    | 7.5              |
|                            | 23.40-23.45 | 53.7  | 49.3                                    | 54.7                        | 47.6                                    | 7.1              |
|                            | 23.45-23.50 | 53.7  | 49.1                                    | 54.9                        | 48.4                                    | 6.4              |
|                            | 23.50-23.55 | 53.4  | 50.2                                    | 53.6                        | 48.2                                    | 5.4              |
|                            | 23.55-00.00 | 53.7  | 50.1                                    | 54.2                        | 48.6                                    | 5.6              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(11/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 21-22/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 15.                        | 00.00-00.05 | 53.6  | 53.2                                    | 46.0                        | 49.5                                    | -3.5             |
|                            | 00.05-00.10 | 52.4  | 53.7                                    | 52.4                        | 52.3                                    | 0.1              |
|                            | 00.10-00.15 | 53.1  | 51.0                                    | 51.9                        | 48.3                                    | 3.6              |
|                            | 00.15-00.20 | 52.9  | 47.6                                    | 54.4                        | 45.9                                    | 8.5              |
|                            | 00.20-00.25 | 52.5  | 48.7                                    | 53.2                        | 46.0                                    | 7.2              |
|                            | 00.25-00.30 | 52.3  | 49.4                                    | 52.2                        | 46.3                                    | 5.9              |
|                            | 00.30-00.35 | 52.3  | 55.4                                    | 52.3                        | 52.7                                    | -0.4             |
|                            | 00.35-00.40 | 52.8  | 53.9                                    | 52.8                        | 50.2                                    | 2.6              |
|                            | 00.40-00.45 | 52.9  | 50.2                                    | 52.6                        | 47.5                                    | 5.1              |
|                            | 00.45-00.50 | 60.2  | 54.6                                    | 61.8                        | 52.4                                    | 9.4              |
| 16.                        | 00.50-00.55 | 51.9  | 51.3                                    | 46.0                        | 47.9                                    | -1.9             |
|                            | 00.55-01.00 | 51.5  | 53.6                                    | 51.5                        | 51.2                                    | 0.3              |
|                            | 01.00-01.05 | 51.5  | 48.0                                    | 51.9                        | 45.3                                    | 6.6              |
|                            | 01.05-01.10 | 51.9  | 53.4                                    | 51.9                        | 51.6                                    | 0.3              |
|                            | 01.10-01.15 | 52.5  | 53.6                                    | 52.5                        | 51.1                                    | 1.4              |
|                            | 01.15-01.20 | 52.7  | 50.3                                    | 52.0                        | 48.9                                    | 3.1              |
|                            | 01.20-01.25 | 52.0  | 51.2                                    | 47.3                        | 49.7                                    | -2.4             |
|                            | 01.25-01.30 | 52.0  | 50.6                                    | 49.4                        | 48.9                                    | 0.5              |
|                            | 01.30-01.35 | 52.0  | 49.1                                    | 51.9                        | 46.4                                    | 5.5              |
|                            | 01.35-01.40 | 51.9  | 51.7                                    | 41.4                        | 49.0                                    | -7.6             |
| 17.                        | 01.40-01.45 | 53.2  | 48.5                                    | 54.4                        | 45.8                                    | 8.6              |
|                            | 01.45-01.50 | 53.5  | 49.3                                    | 54.4                        | 46.6                                    | 7.8              |
|                            | 01.50-01.55 | 53.3  | 56.7                                    | 53.3                        | 54.0                                    | -0.7             |
|                            | 01.55-02.00 | 53.4  | 55.9                                    | 53.4                        | 53.2                                    | 0.2              |
|                            | 02.00-02.05 | 53.4  | 55.3                                    | 53.4                        | 52.6                                    | 0.8              |
|                            | 02.05-02.10 | 53.2  | 53.9                                    | 53.2                        | 51.2                                    | 2.0              |
|                            | 02.10-02.15 | 53.1  | 48.1                                    | 54.4                        | 45.4                                    | 9.0              |
|                            | 02.15-02.20 | 53.0  | 47.5                                    | 54.6                        | 44.8                                    | 9.8              |
|                            | 02.20-02.25 | 53.3  | 53.4                                    | 53.3                        | 50.7                                    | 2.6              |
|                            | 02.25-02.30 | 53.2  | 48.4                                    | 54.5                        | 45.7                                    | 8.8              |
| 18.                        | 02.30-02.35 | 53.1  | 47.5                                    | 54.7                        | 44.8                                    | 9.9              |
|                            | 02.35-02.40 | 52.6  | 47.2                                    | 54.1                        | 44.5                                    | 9.6              |
|                            | 02.40-02.45 | 52.7  | 47.2                                    | 54.3                        | 46.3                                    | 8.0              |
|                            | 02.45-02.50 | 52.4  | 48.9                                    | 52.8                        | 46.2                                    | 6.6              |
|                            | 02.50-02.55 | 52.1  | 49.2                                    | 52.0                        | 47.3                                    | 4.7              |
|                            | 02.55-03.00 | 52.2  | 47.9                                    | 53.2                        | 46.2                                    | 7.0              |
|                            | 03.00-03.05 | 51.9  | 48.8                                    | 52.0                        | 46.1                                    | 5.9              |
|                            | 03.05-03.10 | 51.3  | 48.0                                    | 51.6                        | 45.3                                    | 6.3              |
|                            | 03.10-03.15 | 51.2  | 47.5                                    | 51.8                        | 46.2                                    | 5.6              |
|                            | 03.15-03.20 | 51.1  | 48.7                                    | 50.4                        | 46.3                                    | 4.1              |
|                            | 03.20-03.25 | 51.0  | 48.2                                    | 50.8                        | 45.5                                    | 5.3              |
|                            | 03.25-03.30 | 51.2  | 48.4                                    | 51.0                        | 45.7                                    | 5.3              |
|                            | 03.30-03.35 | 51.1  | 47.7                                    | 51.4                        | 45.0                                    | 6.4              |
|                            | 03.35-03.40 | 51.1  | 49.1                                    | 49.8                        | 46.4                                    | 3.4              |
|                            | 03.40-03.45 | 51.3  | 47.6                                    | 51.9                        | 44.9                                    | 7.0              |
|                            | 03.45-03.50 | 51.2  | 49.0                                    | 50.2                        | 46.3                                    | 3.9              |
|                            | 03.50-03.55 | 51.3  | 49.4                                    | 49.8                        | 46.7                                    | 3.1              |
|                            | 03.55-04.00 | 51.5  | 47.3                                    | 52.4                        | 44.6                                    | 7.8              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited  
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(11/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 21-22/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 19.                        | 04.00-04.05 | 51.3  | 48.0                                    | 51.6                        | 46.8                                    | 4.8              |
|                            | 04.05-04.10 | 51.4  | 48.0                                    | 51.7                        | 45.3                                    | 6.4              |
|                            | 04.10-04.15 | 51.5  | 48.3                                    | 51.7                        | 45.6                                    | 6.1              |
|                            | 04.15-04.20 | 51.4  | 48.9                                    | 50.8                        | 46.2                                    | 4.6              |
|                            | 04.20-04.25 | 51.1  | 48.5                                    | 50.6                        | 45.8                                    | 4.8              |
|                            | 04.25-04.30 | 51.3  | 50.3                                    | 47.4                        | 47.6                                    | -0.2             |
|                            | 04.30-04.35 | 51.5  | 50.0                                    | 49.2                        | 47.3                                    | 1.8              |
|                            | 04.35-04.40 | 51.3  | 50.2                                    | 47.8                        | 47.5                                    | 0.3              |
|                            | 04.40-04.45 | 51.4  | 57.1                                    | 51.4                        | 54.4                                    | -3.0             |
|                            | 04.45-04.50 | 51.4  | 50.6                                    | 46.7                        | 47.9                                    | -1.2             |
|                            | 04.50-04.55 | 51.1  | 50.9                                    | 40.6                        | 48.2                                    | -7.6             |
|                            | 04.55-05.00 | 51.4  | 49.7                                    | 49.5                        | 47.0                                    | 2.5              |
| 20.                        | 05.00-05.05 | 51.1  | 50.0                                    | 47.6                        | 47.3                                    | 0.3              |
|                            | 05.05-05.10 | 51.4  | 50.6                                    | 46.7                        | 47.9                                    | -1.2             |
|                            | 05.10-05.15 | 51.3  | 52.9                                    | 51.3                        | 50.2                                    | 1.1              |
|                            | 05.15-05.20 | 51.5  | 51.9                                    | 51.5                        | 49.2                                    | 2.3              |
|                            | 05.20-05.25 | 51.5  | 52.8                                    | 51.5                        | 50.1                                    | 1.4              |
|                            | 05.25-05.30 | 51.6  | 52.2                                    | 51.6                        | 49.5                                    | 2.1              |
|                            | 05.30-05.35 | 51.3  | 54.1                                    | 51.3                        | 51.4                                    | -0.1             |
|                            | 05.35-05.40 | 51.0  | 53.3                                    | 51.0                        | 50.6                                    | 0.4              |
|                            | 05.40-05.45 | 51.4  | 54.0                                    | 51.4                        | 51.3                                    | 0.1              |
|                            | 05.45-05.50 | 51.4  | 53.2                                    | 51.4                        | 51.7                                    | -0.3             |
|                            | 05.50-05.55 | 51.4  | 50.9                                    | 44.8                        | 48.2                                    | -3.4             |
|                            | 05.55-06.00 | 51.7  | 50.6                                    | 48.2                        | 47.9                                    | 0.3              |
| 21.                        | 06.00-07.00 | 51.8  | 51.3                                    | 42.4                        | 50.4                                    | -8.0             |
| 22.                        | 07.00-08.00 | 55.4  | 53.4                                    | 51.0                        | 51.3                                    | -0.2             |
| 23.                        | 08.00-09.00 | 54.0  | 53.9                                    | 39.9                        | 52.7                                    | -12.7            |
| 24.                        | 09.00-10.00 | 55.0  | 55.0                                    | 55.0                        | 53.1                                    | 1.9              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/12-21  
 Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
 Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
 Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
 Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(12/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 22-23/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 10.00-11.00 | 55.9  | 56.0                                    | 55.9                        | 52.1                                    | 3.8              |
| 2.                         | 11.00-12.00 | 56.3  | 58.7                                    | 56.3                        | 54.9                                    | 1.4              |
| 3.                         | 12.00-13.00 | 55.5  | 53.0                                    | 51.9                        | 50.7                                    | 1.2              |
| 4.                         | 13.00-14.00 | 55.2  | 52.0                                    | 52.3                        | 50.6                                    | 1.8              |
| 5.                         | 14.00-15.00 | 56.1  | 54.3                                    | 51.5                        | 50.2                                    | 1.3              |
| 6.                         | 15.00-16.00 | 56.7  | 55.4                                    | 50.8                        | 49.3                                    | 1.5              |
| 7.                         | 16.00-17.00 | 56.6  | 53.8                                    | 53.5                        | 47.1                                    | 6.4              |
| 8.                         | 17.00-18.00 | 57.5  | 52.6                                    | 55.8                        | 46.8                                    | 9.0              |
| 9.                         | 18.00-19.00 | 56.5  | 52.7                                    | 54.1                        | 49.7                                    | 4.4              |
| 10.                        | 19.00-20.00 | 56.5  | 50.6                                    | 55.2                        | 46.4                                    | 8.9              |
| 11.                        | 20.00-21.00 | 57.0  | 51.6                                    | 55.5                        | 50.2                                    | 5.3              |
| 12.                        | 21.00-22.00 | 56.7  | 48.8                                    | 56.0                        | 47.2                                    | 8.8              |
| 13.                        | 22.00-22.05 | 55.5  | 55.7                                    | 55.5                        | 52.6                                    | 2.9              |
|                            | 22.05-22.10 | 55.8  | 50.7                                    | 57.2                        | 49.0                                    | 8.2              |
|                            | 22.10-22.15 | 54.9  | 49.7                                    | 56.3                        | 47.0                                    | 9.3              |
|                            | 22.15-22.20 | 54.2  | 51.5                                    | 53.9                        | 48.8                                    | 5.1              |
|                            | 22.20-22.25 | 54.4  | 50.2                                    | 55.3                        | 47.5                                    | 7.8              |
|                            | 22.25-22.30 | 56.0  | 50.3                                    | 57.6                        | 48.6                                    | 9.0              |
|                            | 22.30-22.35 | 55.1  | 55.6                                    | 55.1                        | 50.8                                    | 4.3              |
|                            | 22.35-22.40 | 54.2  | 50.6                                    | 54.7                        | 47.9                                    | 6.8              |
|                            | 22.40-22.45 | 53.6  | 49.1                                    | 54.7                        | 46.4                                    | 8.3              |
|                            | 22.45-22.50 | 54.5  | 49.2                                    | 56.0                        | 47.0                                    | 9.0              |
|                            | 22.50-22.55 | 57.9  | 54.3                                    | 58.4                        | 52.6                                    | 5.8              |
|                            | 22.55-23.00 | 55.1  | 50.4                                    | 56.3                        | 48.8                                    | 7.5              |
| 14.                        | 23.00-23.05 | 53.8  | 49.8                                    | 54.6                        | 46.1                                    | 8.5              |
|                            | 23.05-23.10 | 53.4  | 48.6                                    | 54.7                        | 45.9                                    | 8.8              |
|                            | 23.10-23.15 | 53.1  | 49.3                                    | 53.8                        | 46.6                                    | 7.2              |
|                            | 23.15-23.20 | 53.0  | 49.0                                    | 53.8                        | 46.3                                    | 7.5              |
|                            | 23.20-23.25 | 53.4  | 53.0                                    | 45.8                        | 51.8                                    | -6.0             |
|                            | 23.25-23.30 | 53.7  | 49.1                                    | 54.9                        | 47.4                                    | 7.4              |
|                            | 23.30-23.35 | 53.7  | 50.8                                    | 53.6                        | 48.1                                    | 5.5              |
|                            | 23.35-23.40 | 53.6  | 49.8                                    | 54.3                        | 47.3                                    | 7.0              |
|                            | 23.40-23.45 | 53.6  | 49.3                                    | 54.6                        | 47.6                                    | 7.0              |
|                            | 23.45-23.50 | 53.7  | 49.1                                    | 54.9                        | 48.4                                    | 6.4              |
|                            | 23.50-23.55 | 53.6  | 50.2                                    | 53.9                        | 48.2                                    | 5.8              |
|                            | 23.55-00.00 | 53.5  | 50.1                                    | 53.8                        | 48.6                                    | 5.2              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(12/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 22-23/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 15.                        | 00.00-00.05 | 53.8  | 53.2                                    | 47.9                        | 49.5                                    | -1.6             |
|                            | 00.05-00.10 | 53.6  | 53.7                                    | 53.6                        | 52.3                                    | 1.3              |
|                            | 00.10-00.15 | 53.5  | 51.0                                    | 52.9                        | 48.3                                    | 4.6              |
|                            | 00.15-00.20 | 53.2  | 47.6                                    | 54.8                        | 45.9                                    | 8.9              |
|                            | 00.20-00.25 | 52.8  | 48.7                                    | 53.7                        | 46.0                                    | 7.7              |
|                            | 00.25-00.30 | 54.2  | 49.4                                    | 55.5                        | 46.3                                    | 9.2              |
|                            | 00.30-00.35 | 55.6  | 55.4                                    | 45.1                        | 52.7                                    | -7.6             |
|                            | 00.35-00.40 | 54.5  | 53.9                                    | 48.6                        | 50.2                                    | -1.6             |
|                            | 00.40-00.45 | 52.4  | 50.2                                    | 51.4                        | 47.5                                    | 3.9              |
|                            | 00.45-00.50 | 53.5  | 54.6                                    | 53.5                        | 52.4                                    | 1.1              |
|                            | 00.50-00.55 | 56.1  | 51.3                                    | 57.4                        | 47.9                                    | 9.4              |
| 16.                        | 00.55-01.00 | 55.0  | 53.6                                    | 52.4                        | 51.2                                    | 1.2              |
|                            | 01.00-01.05 | 53.0  | 48.0                                    | 54.3                        | 45.3                                    | 9.0              |
|                            | 01.05-01.10 | 52.8  | 53.4                                    | 52.8                        | 51.6                                    | 1.2              |
|                            | 01.10-01.15 | 55.4  | 53.6                                    | 53.7                        | 51.1                                    | 2.6              |
|                            | 01.15-01.20 | 56.4  | 50.3                                    | 58.2                        | 48.9                                    | 9.3              |
|                            | 01.20-01.25 | 52.4  | 51.2                                    | 49.2                        | 49.7                                    | -0.5             |
|                            | 01.25-01.30 | 51.9  | 50.6                                    | 49.0                        | 48.9                                    | 0.1              |
|                            | 01.30-01.35 | 51.6  | 49.1                                    | 51.0                        | 46.4                                    | 4.6              |
|                            | 01.35-01.40 | 52.1  | 51.7                                    | 44.5                        | 49.0                                    | -4.5             |
|                            | 01.40-01.45 | 51.6  | 48.5                                    | 51.7                        | 45.8                                    | 5.9              |
|                            | 01.45-01.50 | 52.0  | 49.3                                    | 51.7                        | 46.6                                    | 5.1              |
| 17.                        | 01.50-01.55 | 53.2  | 56.7                                    | 53.2                        | 54.0                                    | -0.8             |
|                            | 01.55-02.00 | 52.8  | 55.9                                    | 52.8                        | 53.2                                    | -0.4             |
|                            | 02.00-02.05 | 52.9  | 55.3                                    | 52.9                        | 52.6                                    | 0.3              |
|                            | 02.05-02.10 | 53.2  | 53.9                                    | 53.2                        | 51.2                                    | 2.0              |
|                            | 02.10-02.15 | 52.8  | 48.1                                    | 54.0                        | 45.4                                    | 8.6              |
|                            | 02.15-02.20 | 52.4  | 47.5                                    | 53.7                        | 44.8                                    | 8.9              |
|                            | 02.20-02.25 | 51.7  | 53.4                                    | 51.7                        | 50.7                                    | 1.0              |
|                            | 02.25-02.30 | 51.0  | 48.4                                    | 50.5                        | 45.7                                    | 4.8              |
|                            | 02.30-02.35 | 52.2  | 47.5                                    | 53.4                        | 44.8                                    | 8.6              |
|                            | 02.35-02.40 | 51.8  | 47.2                                    | 53.0                        | 44.5                                    | 8.4              |
|                            | 02.40-02.45 | 51.2  | 47.2                                    | 52.0                        | 46.3                                    | 5.7              |
| 18.                        | 02.45-02.50 | 51.1  | 48.9                                    | 50.1                        | 46.2                                    | 3.9              |
|                            | 02.50-02.55 | 51.0  | 49.2                                    | 49.3                        | 47.3                                    | 2.0              |
|                            | 02.55-03.00 | 51.2  | 47.9                                    | 51.5                        | 46.2                                    | 5.3              |
|                            | 03.00-03.05 | 51.1  | 48.8                                    | 50.2                        | 46.1                                    | 4.1              |
|                            | 03.05-03.10 | 51.3  | 48.0                                    | 51.6                        | 45.3                                    | 6.3              |
|                            | 03.10-03.15 | 51.2  | 47.5                                    | 51.8                        | 46.2                                    | 5.6              |
|                            | 03.15-03.20 | 51.3  | 48.7                                    | 50.8                        | 46.3                                    | 4.5              |
|                            | 03.20-03.25 | 51.5  | 48.2                                    | 51.8                        | 45.5                                    | 6.3              |
|                            | 03.25-03.30 | 51.0  | 48.4                                    | 50.5                        | 45.7                                    | 4.8              |
|                            | 03.30-03.35 | 51.3  | 47.7                                    | 51.8                        | 45.0                                    | 6.8              |
|                            | 03.35-03.40 | 51.8  | 49.1                                    | 51.5                        | 46.4                                    | 5.1              |
|                            | 03.40-03.45 | 51.5  | 47.6                                    | 52.2                        | 44.9                                    | 7.3              |
|                            | 03.45-03.50 | 52.1  | 49.0                                    | 52.2                        | 46.3                                    | 5.9              |
|                            | 03.50-03.55 | 51.5  | 49.4                                    | 50.3                        | 46.7                                    | 3.6              |
|                            | 03.55-04.00 | 52.4  | 47.3                                    | 53.8                        | 44.6                                    | 9.2              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(12/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 22-23/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 19.                        | 04.00-04.05 | 51.3  | 48.0                                    | 51.6                        | 46.8                                    | 4.8              |
|                            | 04.05-04.10 | 51.3  | 48.0                                    | 51.6                        | 45.3                                    | 6.3              |
|                            | 04.10-04.15 | 51.3  | 48.3                                    | 51.3                        | 45.6                                    | 5.7              |
|                            | 04.15-04.20 | 51.5  | 48.9                                    | 51.0                        | 46.2                                    | 4.8              |
|                            | 04.20-04.25 | 51.3  | 48.5                                    | 51.1                        | 45.8                                    | 5.3              |
|                            | 04.25-04.30 | 51.1  | 50.3                                    | 46.4                        | 47.6                                    | -1.2             |
|                            | 04.30-04.35 | 51.5  | 50.0                                    | 49.2                        | 47.3                                    | 1.8              |
|                            | 04.35-04.40 | 52.0  | 50.2                                    | 50.3                        | 47.5                                    | 2.8              |
|                            | 04.40-04.45 | 52.3  | 57.1                                    | 52.3                        | 54.4                                    | -2.1             |
|                            | 04.45-04.50 | 52.2  | 50.6                                    | 50.1                        | 47.9                                    | 2.2              |
| 20.                        | 04.50-04.55 | 51.3  | 50.9                                    | 43.7                        | 48.2                                    | -4.5             |
|                            | 04.55-05.00 | 51.4  | 49.7                                    | 49.5                        | 47.0                                    | 2.5              |
|                            | 05.00-05.05 | 51.6  | 50.0                                    | 49.5                        | 47.3                                    | 2.2              |
|                            | 05.05-05.10 | 51.6  | 50.6                                    | 47.7                        | 47.9                                    | -0.2             |
|                            | 05.10-05.15 | 52.2  | 52.9                                    | 52.2                        | 50.2                                    | 2.0              |
|                            | 05.15-05.20 | 52.1  | 51.9                                    | 41.6                        | 49.2                                    | -7.6             |
|                            | 05.20-05.25 | 52.4  | 52.8                                    | 52.4                        | 50.1                                    | 2.3              |
|                            | 05.25-05.30 | 51.6  | 52.2                                    | 51.6                        | 49.5                                    | 2.1              |
|                            | 05.30-05.35 | 52.4  | 54.1                                    | 52.4                        | 51.4                                    | 1.0              |
|                            | 05.35-05.40 | 52.6  | 53.3                                    | 52.6                        | 50.6                                    | 2.0              |
| 21.                        | 05.40-05.45 | 53.1  | 54.0                                    | 53.1                        | 51.3                                    | 1.8              |
|                            | 05.45-05.50 | 51.8  | 53.2                                    | 51.8                        | 51.7                                    | 0.1              |
|                            | 05.50-05.55 | 51.9  | 50.9                                    | 48.0                        | 48.2                                    | -0.2             |
|                            | 05.55-06.00 | 51.9  | 50.6                                    | 49.0                        | 47.9                                    | 1.1              |
|                            | 06.00-07.00 | 51.7  | 51.3                                    | 41.5                        | 50.4                                    | -8.9             |
|                            | 07.00-08.00 | 54.1  | 53.4                                    | 45.8                        | 51.3                                    | -5.4             |
|                            | 08.00-09.00 | 53.9  | 53.9                                    | 33.8                        | 52.7                                    | -18.8            |
|                            | 09.00-10.00 | 54.6  | 55.0                                    | 54.6                        | 53.1                                    | 1.5              |
|                            |             |   |   |                             |   |                  |
|                            |             |   |   |                             |   |                  |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/13-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(13/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดปึงศรีเทพรัดนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 23-24/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 10.00-11.00 | 54.8  | 56.0                                    | 54.8                        | 52.1                                    | 2.7              |
| 2.                         | 11.00-12.00 | 54.7  | 58.7                                    | 54.7                        | 54.9                                    | -0.2             |
| 3.                         | 12.00-13.00 | 54.6  | 53.0                                    | 49.3                        | 50.7                                    | -1.4             |
| 4.                         | 13.00-14.00 | 54.9  | 52.0                                    | 51.7                        | 50.6                                    | 1.1              |
| 5.                         | 14.00-15.00 | 55.5  | 54.3                                    | 49.3                        | 50.2                                    | -0.9             |
| 6.                         | 15.00-16.00 | 55.5  | 55.4                                    | 40.0                        | 49.3                                    | -9.3             |
| 7.                         | 16.00-17.00 | 55.1  | 53.8                                    | 49.2                        | 47.1                                    | 2.1              |
| 8.                         | 17.00-18.00 | 54.8  | 52.6                                    | 50.9                        | 46.8                                    | 4.1              |
| 9.                         | 18.00-19.00 | 54.4  | 52.7                                    | 49.4                        | 49.7                                    | -0.3             |
| 10.                        | 19.00-20.00 | 53.4  | 50.6                                    | 50.1                        | 46.4                                    | 3.8              |
| 11.                        | 20.00-21.00 | 53.0  | 51.6                                    | 47.5                        | 50.2                                    | -2.7             |
| 12.                        | 21.00-22.00 | 52.7  | 48.8                                    | 50.5                        | 47.2                                    | 3.3              |
| 13.                        | 22.00-22.05 | 52.7  | 55.7                                    | 52.7                        | 52.6                                    | 0.1              |
|                            | 22.05-22.10 | 53.7  | 50.7                                    | 53.7                        | 49.0                                    | 4.7              |
|                            | 22.10-22.15 | 54.4  | 49.7                                    | 55.6                        | 47.0                                    | 8.6              |
|                            | 22.15-22.20 | 53.4  | 51.5                                    | 51.9                        | 48.8                                    | 3.1              |
|                            | 22.20-22.25 | 51.5  | 50.2                                    | 48.6                        | 47.5                                    | 1.1              |
|                            | 22.25-22.30 | 51.6  | 50.3                                    | 48.7                        | 48.6                                    | 0.1              |
|                            | 22.30-22.35 | 51.9  | 55.6                                    | 51.9                        | 50.8                                    | 1.1              |
|                            | 22.35-22.40 | 51.5  | 50.6                                    | 47.2                        | 47.9                                    | -0.7             |
|                            | 22.40-22.45 | 51.7  | 49.1                                    | 51.2                        | 46.4                                    | 4.8              |
|                            | 22.45-22.50 | 51.6  | 49.2                                    | 50.9                        | 47.0                                    | 3.9              |
|                            | 22.50-22.55 | 51.7  | 54.3                                    | 51.7                        | 52.6                                    | -0.9             |
|                            | 22.55-23.00 | 51.5  | 50.4                                    | 48.0                        | 48.8                                    | -0.8             |
| 14.                        | 23.00-23.05 | 51.9  | 49.8                                    | 50.7                        | 46.1                                    | 4.6              |
|                            | 23.05-23.10 | 52.4  | 48.6                                    | 53.1                        | 45.9                                    | 7.2              |
|                            | 23.10-23.15 | 53.4  | 49.3                                    | 54.3                        | 46.6                                    | 7.7              |
|                            | 23.15-23.20 | 53.2  | 49.0                                    | 54.1                        | 46.3                                    | 7.8              |
|                            | 23.20-23.25 | 53.1  | 53.0                                    | 39.7                        | 51.8                                    | -12.1            |
|                            | 23.25-23.30 | 53.5  | 49.1                                    | 54.5                        | 47.4                                    | 7.1              |
|                            | 23.30-23.35 | 53.8  | 50.8                                    | 53.8                        | 48.1                                    | 5.7              |
|                            | 23.35-23.40 | 53.9  | 49.8                                    | 54.8                        | 47.3                                    | 7.5              |
|                            | 23.40-23.45 | 53.7  | 49.3                                    | 54.7                        | 47.6                                    | 7.1              |
|                            | 23.45-23.50 | 53.4  | 49.1                                    | 54.4                        | 48.4                                    | 6.0              |
|                            | 23.50-23.55 | 53.7  | 50.2                                    | 54.1                        | 48.2                                    | 5.9              |
|                            | 23.55-00.00 | 53.4  | 50.1                                    | 53.7                        | 48.6                                    | 5.1              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(13/2-3)

| Item | Time                       | Result (dB(A))                                    |   |                             |   |                  |
|------|----------------------------|---|---|-----------------------------|---|------------------|
|      |                            | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|      |                            | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|      |                            | 23-24/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 15.  | 00.00-00.05                | 53.5  | 53.2                                    | 44.7                        | 49.5                                    | -4.8             |
|      | 00.05-00.10                | 53.5  | 53.7                                    | 53.5                        | 52.3                                    | 1.2              |
|      | 00.10-00.15                | 53.6  | 51.0                                    | 53.1                        | 48.3                                    | 4.8              |
|      | 00.15-00.20                | 53.8  | 47.6                                    | 55.6                        | 45.9                                    | 9.7              |
|      | 00.20-00.25                | 53.5  | 48.7                                    | 54.8                        | 46.0                                    | 8.8              |
|      | 00.25-00.30                | 53.4  | 49.4                                    | 54.2                        | 46.3                                    | 7.9              |
|      | 00.30-00.35                | 52.6  | 55.4                                    | 52.6                        | 52.7                                    | -0.1             |
|      | 00.35-00.40                | 52.9  | 53.9                                    | 52.9                        | 50.2                                    | 2.7              |
|      | 00.40-00.45                | 53.3  | 50.2                                    | 53.4                        | 47.5                                    | 5.9              |
|      | 00.45-00.50                | 53.7  | 54.6                                    | 53.7                        | 52.4                                    | 1.3              |
|      | 00.50-00.55                | 53.7  | 51.3                                    | 53.0                        | 47.9                                    | 5.1              |
| 16.  | 00.55-01.00                | 52.9  | 53.6                                    | 52.9                        | 51.2                                    | 1.7              |
|      | 01.00-01.05                | 52.7  | 48.0                                    | 53.9                        | 45.3                                    | 8.6              |
|      | 01.05-01.10                | 52.9  | 53.4                                    | 52.9                        | 51.6                                    | 1.3              |
|      | 01.10-01.15                | 52.8  | 53.6                                    | 52.8                        | 51.1                                    | 1.7              |
|      | 01.15-01.20                | 52.8  | 50.3                                    | 52.2                        | 48.9                                    | 3.3              |
|      | 01.20-01.25                | 52.9  | 51.2                                    | 51.0                        | 49.7                                    | 1.3              |
|      | 01.25-01.30                | 52.7  | 50.6                                    | 51.5                        | 48.9                                    | 2.6              |
|      | 01.30-01.35                | 52.5  | 49.1                                    | 52.8                        | 46.4                                    | 6.4              |
|      | 01.35-01.40                | 52.4  | 51.7                                    | 47.1                        | 49.0                                    | -1.9             |
|      | 01.40-01.45                | 52.5  | 48.5                                    | 53.3                        | 45.8                                    | 7.5              |
|      | 01.45-01.50                | 52.9  | 49.3                                    | 53.4                        | 46.6                                    | 6.8              |
| 17.  | 01.50-01.55                | 52.8  | 56.7                                    | 52.8                        | 54.0                                    | -1.2             |
|      | 01.55-02.00                | 52.9  | 55.9                                    | 52.9                        | 53.2                                    | -0.3             |
|      | 02.00-02.05                | 53.0  | 55.3                                    | 53.0                        | 52.6                                    | 0.4              |
|      | 02.05-02.10                | 53.1  | 53.9                                    | 53.1                        | 51.2                                    | 1.9              |
|      | 02.10-02.15                | 52.9  | 48.1                                    | 54.2                        | 45.4                                    | 8.8              |
|      | 02.15-02.20                | 52.3  | 47.5                                    | 53.6                        | 44.8                                    | 8.8              |
|      | 02.20-02.25                | 52.3  | 53.4                                    | 52.3                        | 50.7                                    | 1.6              |
|      | 02.25-02.30                | 52.7  | 48.4                                    | 53.7                        | 45.7                                    | 8.0              |
|      | 02.30-02.35                | 51.3  | 47.5                                    | 52.0                        | 44.8                                    | 7.2              |
|      | 02.35-02.40                | 51.2  | 47.2                                    | 52.0                        | 44.5                                    | 7.5              |
|      | 02.40-02.45                | 52.4  | 47.2                                    | 53.8                        | 46.3                                    | 7.5              |
| 18.  | 02.45-02.50                | 52.6  | 48.9                                    | 53.2                        | 46.2                                    | 7.0              |
|      | 02.50-02.55                | 51.9  | 49.2                                    | 51.6                        | 47.3                                    | 4.3              |
|      | 02.55-03.00                | 51.5  | 47.9                                    | 52.0                        | 46.2                                    | 5.8              |
|      | 03.00-03.05                | 51.9  | 48.8                                    | 52.0                        | 46.1                                    | 5.9              |
|      | 03.05-03.10                | 51.5  | 48.0                                    | 51.9                        | 45.3                                    | 6.6              |
|      | 03.10-03.15                | 51.7  | 47.5                                    | 52.6                        | 46.2                                    | 6.4              |
|      | 03.15-03.20                | 51.8  | 48.7                                    | 51.9                        | 46.3                                    | 5.6              |
|      | 03.20-03.25                | 51.9  | 48.2                                    | 52.5                        | 45.5                                    | 7.0              |
|      | 03.25-03.30                | 51.9  | 48.4                                    | 52.3                        | 45.7                                    | 6.6              |
|      | 03.30-03.35                | 52.2  | 47.7                                    | 53.3                        | 45.0                                    | 8.3              |
|      | 03.35-03.40                | 52.6  | 49.1                                    | 53.0                        | 46.4                                    | 6.6              |
|      | 03.40-03.45                | 52.5  | 47.6                                    | 53.8                        | 44.9                                    | 8.9              |
|      | 03.45-03.50                | 53.0  | 49.0                                    | 53.8                        | 46.3                                    | 7.5              |
|      | 03.50-03.55                | 51.2  | 49.4                                    | 49.5                        | 46.7                                    | 2.8              |
|      | 03.55-04.00                | 51.4  | 47.3                                    | 52.3                        | 44.6                                    | 7.7              |
|      | Standard <sup>(1)(2)</sup> |   |   |                             |   | 10               |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(13/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 23-24/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 19.                        | 04.00-04.05 | 51.3  | 48.0                                    | 51.6                        | 46.8                                    | 4.8              |
|                            | 04.05-04.10 | 51.3  | 48.0                                    | 51.6                        | 45.3                                    | 6.3              |
|                            | 04.10-04.15 | 51.1  | 48.3                                    | 50.9                        | 45.6                                    | 5.3              |
|                            | 04.15-04.20 | 51.3  | 48.9                                    | 50.6                        | 46.2                                    | 4.4              |
|                            | 04.20-04.25 | 51.1  | 48.5                                    | 50.6                        | 45.8                                    | 4.8              |
|                            | 04.25-04.30 | 51.3  | 50.3                                    | 47.4                        | 47.6                                    | -0.2             |
|                            | 04.30-04.35 | 52.2  | 50.0                                    | 51.2                        | 47.3                                    | 3.9              |
|                            | 04.35-04.40 | 51.7  | 50.2                                    | 49.4                        | 47.5                                    | 1.8              |
|                            | 04.40-04.45 | 51.5  | 57.1                                    | 51.5                        | 54.4                                    | -2.9             |
|                            | 04.45-04.50 | 51.7  | 50.6                                    | 48.2                        | 47.9                                    | 0.3              |
|                            | 04.50-04.55 | 53.0  | 50.9                                    | 51.8                        | 48.2                                    | 3.6              |
|                            | 04.55-05.00 | 51.2  | 49.7                                    | 48.9                        | 47.0                                    | 1.8              |
| 20.                        | 05.00-05.05 | 50.7  | 50.0                                    | 45.4                        | 47.3                                    | -1.9             |
|                            | 05.05-05.10 | 51.5  | 50.6                                    | 47.2                        | 47.9                                    | -0.7             |
|                            | 05.10-05.15 | 51.5  | 52.9                                    | 51.5                        | 50.2                                    | 1.3              |
|                            | 05.15-05.20 | 51.5  | 51.9                                    | 51.5                        | 49.2                                    | 2.3              |
|                            | 05.20-05.25 | 52.2  | 52.8                                    | 52.2                        | 50.1                                    | 2.1              |
|                            | 05.25-05.30 | 51.5  | 52.2                                    | 51.5                        | 49.5                                    | 2.0              |
|                            | 05.30-05.35 | 51.0  | 54.1                                    | 51.0                        | 51.4                                    | -0.4             |
|                            | 05.35-05.40 | 51.2  | 53.3                                    | 51.2                        | 50.6                                    | 0.6              |
|                            | 05.40-05.45 | 51.4  | 54.0                                    | 51.4                        | 51.3                                    | 0.1              |
|                            | 05.45-05.50 | 58.9  | 53.2                                    | 60.5                        | 51.7                                    | 8.8              |
|                            | 05.50-05.55 | 53.0  | 50.9                                    | 51.8                        | 48.2                                    | 3.6              |
|                            | 05.55-06.00 | 51.8  | 50.6                                    | 48.6                        | 47.9                                    | 0.7              |
| 21.                        | 06.00-07.00 | 53.4  | 51.3                                    | 49.2                        | 50.4                                    | -1.2             |
| 22.                        | 07.00-08.00 | 50.5  | 53.4                                    | 50.5                        | 51.3                                    | -0.8             |
| 23.                        | 08.00-09.00 | 53.1  | 53.9                                    | 53.1                        | 52.7                                    | 0.4              |
| 24.                        | 09.00-10.00 | 52.0  | 55.0                                    | 52.0                        | 53.1                                    | -1.1             |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : (1) Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

(2) Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/14-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(14/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 24-25/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 10.00-11.00 | 53.3  | 56.0                                    | 53.3                        | 52.1                                    | 1.2              |
| 2.                         | 11.00-12.00 | 53.1  | 58.7                                    | 53.1                        | 54.9                                    | -1.8             |
| 3.                         | 12.00-13.00 | 52.3  | 53.0                                    | 52.3                        | 50.7                                    | 1.6              |
| 4.                         | 13.00-14.00 | 52.8  | 52.0                                    | 44.9                        | 50.6                                    | -5.7             |
| 5.                         | 14.00-15.00 | 52.9  | 54.3                                    | 52.9                        | 50.2                                    | 2.8              |
| 6.                         | 15.00-16.00 | 52.1  | 55.4                                    | 52.1                        | 49.3                                    | 2.8              |
| 7.                         | 16.00-17.00 | 52.0  | 53.8                                    | 52.0                        | 47.1                                    | 4.9              |
| 8.                         | 17.00-18.00 | 51.9  | 52.6                                    | 51.9                        | 46.8                                    | 5.1              |
| 9.                         | 18.00-19.00 | 52.9  | 52.7                                    | 39.2                        | 49.7                                    | -10.5            |
| 10.                        | 19.00-20.00 | 53.3  | 50.6                                    | 49.9                        | 46.4                                    | 3.6              |
| 11.                        | 20.00-21.00 | 53.5  | 51.6                                    | 49.1                        | 50.2                                    | -1.1             |
| 12.                        | 21.00-22.00 | 53.5  | 48.8                                    | 51.7                        | 47.2                                    | 4.5              |
| 13.                        | 22.00-22.05 | 53.1  | 55.7                                    | 53.1                        | 52.6                                    | 0.5              |
|                            | 22.05-22.10 | 53.7  | 50.7                                    | 53.7                        | 49.0                                    | 4.7              |
|                            | 22.10-22.15 | 52.7  | 49.7                                    | 52.7                        | 47.0                                    | 5.7              |
|                            | 22.15-22.20 | 52.4  | 51.5                                    | 48.1                        | 48.8                                    | -0.7             |
|                            | 22.20-22.25 | 52.0  | 50.2                                    | 50.3                        | 47.5                                    | 2.8              |
|                            | 22.25-22.30 | 51.9  | 50.3                                    | 49.8                        | 48.6                                    | 1.2              |
|                            | 22.30-22.35 | 52.1  | 55.6                                    | 52.1                        | 50.8                                    | 1.3              |
|                            | 22.35-22.40 | 51.9  | 50.6                                    | 49.0                        | 47.9                                    | 1.1              |
|                            | 22.40-22.45 | 51.9  | 49.1                                    | 51.7                        | 46.4                                    | 5.3              |
|                            | 22.45-22.50 | 52.4  | 49.2                                    | 52.6                        | 47.0                                    | 5.6              |
|                            | 22.50-22.55 | 60.4  | 54.3                                    | 62.2                        | 52.6                                    | 9.6              |
|                            | 22.55-23.00 | 56.4  | 50.4                                    | 58.1                        | 48.8                                    | 9.3              |
| 14.                        | 23.00-23.05 | 54.6  | 49.8                                    | 55.9                        | 46.1                                    | 9.8              |
|                            | 23.05-23.10 | 53.3  | 48.6                                    | 54.5                        | 45.9                                    | 8.6              |
|                            | 23.10-23.15 | 52.7  | 49.3                                    | 53.0                        | 46.6                                    | 6.4              |
|                            | 23.15-23.20 | 52.6  | 49.0                                    | 53.1                        | 46.3                                    | 6.8              |
|                            | 23.20-23.25 | 59.1  | 53.0                                    | 60.9                        | 51.8                                    | 9.1              |
|                            | 23.25-23.30 | 55.1  | 49.1                                    | 56.8                        | 47.4                                    | 9.4              |
|                            | 23.30-23.35 | 52.1  | 50.8                                    | 49.2                        | 48.1                                    | 1.1              |
|                            | 23.35-23.40 | 51.9  | 49.8                                    | 50.7                        | 47.3                                    | 3.4              |
|                            | 23.40-23.45 | 53.3  | 49.3                                    | 54.1                        | 47.6                                    | 6.5              |
|                            | 23.45-23.50 | 52.8  | 49.1                                    | 53.4                        | 48.4                                    | 5.0              |
|                            | 23.50-23.55 | 52.1  | 50.2                                    | 50.6                        | 48.2                                    | 2.4              |
|                            | 23.55-00.00 | 51.9  | 50.1                                    | 50.2                        | 48.6                                    | 1.6              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(14/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 24-25/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 15.                        | 00.00-00.05 | 52.4  | 53.2                                    | 52.4                        | 49.5                                    | 2.9              |
|                            | 00.05-00.10 | 53.0  | 53.7                                    | 53.0                        | 52.3                                    | 0.7              |
|                            | 00.10-00.15 | 53.1  | 51.0                                    | 51.9                        | 48.3                                    | 3.6              |
|                            | 00.15-00.20 | 53.0  | 47.6                                    | 54.5                        | 45.9                                    | 8.6              |
|                            | 00.20-00.25 | 53.3  | 48.7                                    | 54.5                        | 46.0                                    | 8.4              |
|                            | 00.25-00.30 | 54.4  | 49.4                                    | 55.7                        | 46.3                                    | 9.4              |
|                            | 00.30-00.35 | 55.0  | 55.4                                    | 55.0                        | 52.7                                    | 2.3              |
|                            | 00.35-00.40 | 55.2  | 53.9                                    | 52.3                        | 50.2                                    | 2.1              |
|                            | 00.40-00.45 | 55.1  | 50.2                                    | 56.4                        | 47.5                                    | 8.9              |
|                            | 00.45-00.50 | 54.8  | 54.6                                    | 44.3                        | 52.4                                    | -8.1             |
|                            | 00.50-00.55 | 55.4  | 51.3                                    | 56.3                        | 47.9                                    | 8.4              |
|                            | 00.55-01.00 | 59.4  | 53.6                                    | 61.1                        | 51.2                                    | 9.9              |
| 16.                        | 01.00-01.05 | 51.6  | 48.0                                    | 52.1                        | 45.3                                    | 6.8              |
|                            | 01.05-01.10 | 51.8  | 53.4                                    | 51.8                        | 51.6                                    | 0.2              |
|                            | 01.10-01.15 | 51.7  | 53.6                                    | 51.7                        | 51.1                                    | 0.6              |
|                            | 01.15-01.20 | 51.9  | 50.3                                    | 49.8                        | 48.9                                    | 0.9              |
|                            | 01.20-01.25 | 57.6  | 51.2                                    | 59.5                        | 49.7                                    | 9.8              |
|                            | 01.25-01.30 | 56.9  | 50.6                                    | 58.7                        | 48.9                                    | 9.8              |
|                            | 01.30-01.35 | 53.9  | 49.1                                    | 55.2                        | 46.4                                    | 8.8              |
|                            | 01.35-01.40 | 49.5  | 51.7                                    | 49.5                        | 49.0                                    | 0.5              |
|                            | 01.40-01.45 | 49.9  | 48.5                                    | 47.3                        | 45.8                                    | 1.5              |
|                            | 01.45-01.50 | 49.8  | 49.3                                    | 43.2                        | 46.6                                    | -3.4             |
|                            | 01.50-01.55 | 52.2  | 56.7                                    | 52.2                        | 54.0                                    | -1.8             |
|                            | 01.55-02.00 | 58.6  | 55.9                                    | 58.3                        | 53.2                                    | 5.1              |
| 17.                        | 02.00-02.05 | 58.4  | 55.3                                    | 58.5                        | 52.6                                    | 5.9              |
|                            | 02.05-02.10 | 55.8  | 53.9                                    | 54.3                        | 51.2                                    | 3.1              |
|                            | 02.10-02.15 | 50.6  | 48.1                                    | 50.0                        | 45.4                                    | 4.6              |
|                            | 02.15-02.20 | 50.0  | 47.5                                    | 49.4                        | 44.8                                    | 4.6              |
|                            | 02.20-02.25 | 51.3  | 53.4                                    | 51.3                        | 50.7                                    | 0.6              |
|                            | 02.25-02.30 | 49.8  | 48.4                                    | 47.2                        | 45.7                                    | 1.5              |
|                            | 02.30-02.35 | 50.1  | 47.5                                    | 49.6                        | 44.8                                    | 4.8              |
|                            | 02.35-02.40 | 49.9  | 47.2                                    | 49.6                        | 44.5                                    | 5.1              |
|                            | 02.40-02.45 | 49.9  | 47.2                                    | 49.6                        | 46.3                                    | 3.3              |
|                            | 02.45-02.50 | 49.9  | 48.9                                    | 46.0                        | 46.2                                    | -0.2             |
|                            | 02.50-02.55 | 50.8  | 49.2                                    | 48.7                        | 47.3                                    | 1.4              |
|                            | 02.55-03.00 | 53.6  | 47.9                                    | 55.2                        | 46.2                                    | 9.0              |
| 18.                        | 03.00-03.05 | 49.5  | 48.8                                    | 44.2                        | 46.1                                    | -1.9             |
|                            | 03.05-03.10 | 49.8  | 48.0                                    | 48.1                        | 45.3                                    | 2.8              |
|                            | 03.10-03.15 | 49.7  | 47.5                                    | 48.7                        | 46.2                                    | 2.5              |
|                            | 03.15-03.20 | 49.8  | 48.7                                    | 46.3                        | 46.3                                    | 0.0              |
|                            | 03.20-03.25 | 50.2  | 48.2                                    | 48.9                        | 45.5                                    | 3.4              |
|                            | 03.25-03.30 | 49.6  | 48.4                                    | 46.4                        | 45.7                                    | 0.7              |
|                            | 03.30-03.35 | 50.2  | 47.7                                    | 49.6                        | 45.0                                    | 4.6              |
|                            | 03.35-03.40 | 49.6  | 49.1                                    | 43.0                        | 46.4                                    | -3.4             |
|                            | 03.40-03.45 | 50.5  | 47.6                                    | 50.4                        | 44.9                                    | 5.5              |
|                            | 03.45-03.50 | 50.8  | 49.0                                    | 49.1                        | 46.3                                    | 2.8              |
|                            | 03.50-03.55 | 50.7  | 49.4                                    | 47.8                        | 46.7                                    | 1.1              |
|                            | 03.55-04.00 | 49.6  | 47.3                                    | 48.7                        | 44.6                                    | 4.1              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(14/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | วัดบึงศรีเทพรัตนาราม                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 24-25/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 19.                        | 04.00-04.05 | 50.6  | 48.0                                    | 50.1                        | 46.8                                    | 3.3              |
|                            | 04.05-04.10 | 49.9  | 48.0                                    | 48.4                        | 45.3                                    | 3.1              |
|                            | 04.10-04.15 | 50.1  | 48.3                                    | 48.4                        | 45.6                                    | 2.8              |
|                            | 04.15-04.20 | 49.6  | 48.9                                    | 44.3                        | 46.2                                    | -1.9             |
|                            | 04.20-04.25 | 50.4  | 48.5                                    | 48.9                        | 45.8                                    | 3.1              |
|                            | 04.25-04.30 | 50.2  | 50.3                                    | 50.2                        | 47.6                                    | 2.6              |
|                            | 04.30-04.35 | 50.4  | 50.0                                    | 42.8                        | 47.3                                    | -4.5             |
|                            | 04.35-04.40 | 50.6  | 50.2                                    | 43.0                        | 47.5                                    | -4.5             |
|                            | 04.40-04.45 | 50.4  | 57.1                                    | 50.4                        | 54.4                                    | -4.0             |
|                            | 04.45-04.50 | 50.8  | 50.6                                    | 40.3                        | 47.9                                    | -7.6             |
|                            | 04.50-04.55 | 54.0  | 50.9                                    | 54.1                        | 48.2                                    | 5.9              |
|                            | 04.55-05.00 | 50.3  | 49.7                                    | 44.4                        | 47.0                                    | -2.6             |
| 20.                        | 05.00-05.05 | 50.7  | 50.0                                    | 45.4                        | 47.3                                    | -1.9             |
|                            | 05.05-05.10 | 50.1  | 50.6                                    | 50.1                        | 47.9                                    | 2.2              |
|                            | 05.10-05.15 | 50.3  | 52.9                                    | 50.3                        | 50.2                                    | 0.1              |
|                            | 05.15-05.20 | 50.6  | 51.9                                    | 50.6                        | 49.2                                    | 1.4              |
|                            | 05.20-05.25 | 50.3  | 52.8                                    | 50.3                        | 50.1                                    | 0.2              |
|                            | 05.25-05.30 | 50.1  | 52.2                                    | 50.1                        | 49.5                                    | 0.6              |
|                            | 05.30-05.35 | 49.1  | 54.1                                    | 49.1                        | 51.4                                    | -2.3             |
|                            | 05.35-05.40 | 49.1  | 53.3                                    | 49.1                        | 50.6                                    | -1.5             |
|                            | 05.40-05.45 | 48.9  | 54.0                                    | 48.9                        | 51.3                                    | -2.4             |
|                            | 05.45-05.50 | 48.7  | 53.2                                    | 48.7                        | 51.7                                    | -3.0             |
|                            | 05.50-05.55 | 51.1  | 50.9                                    | 40.6                        | 48.2                                    | -7.6             |
|                            | 05.55-06.00 | 50.9  | 50.6                                    | 42.1                        | 47.9                                    | -5.8             |
| 21.                        | 06.00-07.00 | 50.8  | 51.3                                    | 50.8                        | 50.4                                    | 0.4              |
| 22.                        | 07.00-08.00 | 51.1  | 53.4                                    | 51.1                        | 51.3                                    | -0.2             |
| 23.                        | 08.00-09.00 | 50.0  | 53.9                                    | 50.0                        | 52.7                                    | -2.6             |
| 24.                        | 09.00-10.00 | 50.1  | 55.0                                    | 50.1                        | 53.1                                    | -3.0             |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/15-21  
 Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
 Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
 Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
 Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(15/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 18-19/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 09.00-10.00 | 52.3  | 57.5                                    | 52.3                        | 50.5                                    | 1.8              |
| 2.                         | 10.00-11.00 | 52.9  | 57.0                                    | 52.9                        | 48.9                                    | 4.0              |
| 3.                         | 11.00-12.00 | 51.0  | 59.7                                    | 51.0                        | 49.2                                    | 1.8              |
| 4.                         | 12.00-13.00 | 51.8  | 52.7                                    | 51.8                        | 45.0                                    | 6.8              |
| 5.                         | 13.00-14.00 | 52.9  | 51.3                                    | 47.6                        | 43.8                                    | 3.8              |
| 6.                         | 14.00-15.00 | 52.6  | 48.7                                    | 50.2                        | 45.3                                    | 4.9              |
| 7.                         | 15.00-16.00 | 50.6  | 58.6                                    | 50.6                        | 45.4                                    | 5.2              |
| 8.                         | 16.00-17.00 | 53.7  | 48.4                                    | 52.2                        | 45.3                                    | 6.9              |
| 9.                         | 17.00-18.00 | 51.4  | 52.6                                    | 51.4                        | 44.3                                    | 7.1              |
| 10.                        | 18.00-19.00 | 52.0  | 60.1                                    | 52.0                        | 45.7                                    | 6.3              |
| 11.                        | 19.00-20.00 | 52.2  | 61.4                                    | 52.2                        | 46.1                                    | 6.1              |
| 12.                        | 20.00-21.00 | 51.5  | 61.9                                    | 51.5                        | 50.3                                    | 1.3              |
| 13.                        | 21.00-22.00 | 51.6  | 63.1                                    | 51.6                        | 51.7                                    | 0.0              |
| 14.                        | 22.00-22.05 | 52.0  | 64.1                                    | 52.0                        | 53.5                                    | -1.5             |
|                            | 22.05-22.10 | 51.7  | 65.8                                    | 51.7                        | 54.1                                    | -2.4             |
|                            | 22.10-22.15 | 51.7  | 64.0                                    | 51.7                        | 55.3                                    | -3.6             |
|                            | 22.15-22.20 | 51.3  | 62.6                                    | 51.3                        | 54.6                                    | -3.3             |
|                            | 22.20-22.25 | 50.9  | 62.0                                    | 50.9                        | 49.3                                    | 1.6              |
|                            | 22.25-22.30 | 50.7  | 67.1                                    | 50.7                        | 49.6                                    | 1.1              |
|                            | 22.30-22.35 | 51.0  | 50.6                                    | 43.4                        | 49.1                                    | -5.7             |
|                            | 22.35-22.40 | 50.7  | 49.8                                    | 46.4                        | 48.5                                    | -2.1             |
|                            | 22.40-22.45 | 50.0  | 54.0                                    | 50.0                        | 48.3                                    | 1.7              |
|                            | 22.45-22.50 | 50.4  | 49.0                                    | 47.8                        | 47.7                                    | 0.1              |
|                            | 22.50-22.55 | 50.8  | 50.2                                    | 44.9                        | 47.8                                    | -2.9             |
|                            | 22.55-23.00 | 51.8  | 50.9                                    | 47.5                        | 47.8                                    | -0.3             |
| 15.                        | 23.00-23.05 | 52.0  | 63.2                                    | 52.0                        | 49.6                                    | 2.4              |
|                            | 23.05-23.10 | 51.5  | 64.2                                    | 51.5                        | 48.9                                    | 2.6              |
|                            | 23.10-23.15 | 51.5  | 62.0                                    | 51.5                        | 49.3                                    | 2.2              |
|                            | 23.15-23.20 | 51.0  | 50.0                                    | 47.1                        | 48.6                                    | -1.5             |
|                            | 23.20-23.25 | 51.1  | 49.1                                    | 49.8                        | 47.7                                    | 2.1              |
|                            | 23.25-23.30 | 50.9  | 51.1                                    | 50.9                        | 47.9                                    | 3.0              |
|                            | 23.30-23.35 | 51.4  | 52.0                                    | 51.4                        | 48.6                                    | 2.8              |
|                            | 23.35-23.40 | 51.9  | 49.8                                    | 50.7                        | 48.4                                    | 2.3              |
|                            | 23.40-23.45 | 52.1  | 49.6                                    | 51.5                        | 48.4                                    | 3.1              |
|                            | 23.45-23.50 | 51.9  | 49.3                                    | 51.4                        | 47.5                                    | 3.9              |
|                            | 23.50-23.55 | 52.1  | 55.6                                    | 52.1                        | 53.2                                    | -1.1             |
|                            | 23.55-00.00 | 51.2  | 49.3                                    | 49.7                        | 48.3                                    | 1.4              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(15/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 18-19/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 16.                        | 00.00-00.05 | 50.5  | 49.4                                    | 47.0                        | 48.1                                    | -1.1             |
|                            | 00.05-00.10 | 51.0  | 49.5                                    | 48.7                        | 48.1                                    | 0.6              |
|                            | 00.10-00.15 | 51.2  | 49.2                                    | 49.9                        | 47.8                                    | 2.1              |
|                            | 00.15-00.20 | 51.1  | 67.5                                    | 51.1                        | 48.4                                    | 2.7              |
|                            | 00.20-00.25 | 50.2  | 65.4                                    | 50.2                        | 54.2                                    | -4.0             |
|                            | 00.25-00.30 | 49.8  | 58.2                                    | 49.8                        | 50.3                                    | -0.5             |
|                            | 00.30-00.35 | 51.1  | 53.2                                    | 51.1                        | 50.1                                    | 1.0              |
|                            | 00.35-00.40 | 50.8  | 56.8                                    | 50.8                        | 50.1                                    | 0.7              |
|                            | 00.40-00.45 | 50.4  | 53.2                                    | 50.4                        | 50.1                                    | 0.3              |
|                            | 00.45-00.50 | 50.2  | 53.2                                    | 50.2                        | 50.1                                    | 0.1              |
|                            | 00.50-00.55 | 49.8  | 63.4                                    | 49.8                        | 49.7                                    | 0.1              |
|                            | 00.55-01.00 | 49.8  | 56.1                                    | 49.8                        | 54.6                                    | -4.8             |
| 17.                        | 01.00-01.05 | 49.1  | 66.1                                    | 49.1                        | 48.5                                    | 0.6              |
|                            | 01.05-01.10 | 49.1  | 52.0                                    | 49.1                        | 49.6                                    | -0.5             |
|                            | 01.10-01.15 | 48.3  | 53.9                                    | 48.3                        | 49.5                                    | -1.2             |
|                            | 01.15-01.20 | 48.1  | 67.5                                    | 48.1                        | 51.4                                    | -3.3             |
|                            | 01.20-01.25 | 48.3  | 53.6                                    | 48.3                        | 51.1                                    | -2.8             |
|                            | 01.25-01.30 | 48.5  | 54.5                                    | 48.5                        | 51.8                                    | -3.3             |
|                            | 01.30-01.35 | 48.1  | 53.7                                    | 48.1                        | 51.3                                    | -3.2             |
|                            | 01.35-01.40 | 48.8  | 64.0                                    | 48.8                        | 51.5                                    | -2.7             |
|                            | 01.40-01.45 | 48.8  | 50.6                                    | 48.8                        | 49.5                                    | -0.7             |
|                            | 01.45-01.50 | 48.7  | 50.9                                    | 48.7                        | 48.6                                    | 0.1              |
|                            | 01.50-01.55 | 48.9  | 50.0                                    | 48.9                        | 49.0                                    | -0.1             |
|                            | 01.55-02.00 | 48.9  | 49.5                                    | 48.9                        | 48.3                                    | 0.6              |
| 18.                        | 02.00-02.05 | 49.3  | 49.5                                    | 49.3                        | 48.4                                    | 0.9              |
|                            | 02.05-02.10 | 50.0  | 49.8                                    | 39.5                        | 48.4                                    | -8.9             |
|                            | 02.10-02.15 | 50.4  | 49.9                                    | 43.8                        | 48.5                                    | -4.7             |
|                            | 02.15-02.20 | 51.4  | 51.0                                    | 43.8                        | 49.5                                    | -5.7             |
|                            | 02.20-02.25 | 50.9  | 51.2                                    | 50.9                        | 49.5                                    | 1.4              |
|                            | 02.25-02.30 | 50.3  | 66.3                                    | 50.3                        | 48.2                                    | 2.1              |
|                            | 02.30-02.35 | 51.5  | 66.0                                    | 51.5                        | 49.5                                    | 2.0              |
|                            | 02.35-02.40 | 51.0  | 61.3                                    | 51.0                        | 50.9                                    | 0.1              |
|                            | 02.40-02.45 | 49.8  | 53.3                                    | 49.8                        | 50.9                                    | -1.1             |
|                            | 02.45-02.50 | 50.0  | 69.0                                    | 50.0                        | 50.6                                    | -0.6             |
|                            | 02.50-02.55 | 50.7  | 51.7                                    | 50.7                        | 49.5                                    | 1.2              |
|                            | 02.55-03.00 | 50.9  | 52.6                                    | 50.9                        | 49.9                                    | 1.0              |
| 19.                        | 03.00-03.05 | 50.8  | 53.0                                    | 50.8                        | 49.8                                    | 1.0              |
|                            | 03.05-03.10 | 50.7  | 54.1                                    | 50.7                        | 51.5                                    | -0.8             |
|                            | 03.10-03.15 | 50.9  | 60.9                                    | 50.9                        | 49.0                                    | 1.9              |
|                            | 03.15-03.20 | 51.9  | 48.8                                    | 52.0                        | 47.5                                    | 4.5              |
|                            | 03.20-03.25 | 52.3  | 48.1                                    | 53.2                        | 47.1                                    | 6.1              |
|                            | 03.25-03.30 | 51.5  | 48.0                                    | 51.9                        | 46.9                                    | 5.0              |
|                            | 03.30-03.35 | 50.8  | 47.8                                    | 50.8                        | 47.0                                    | 3.8              |
|                            | 03.35-03.40 | 51.9  | 47.3                                    | 53.1                        | 46.4                                    | 6.6              |
|                            | 03.40-03.45 | 51.8  | 47.3                                    | 52.9                        | 46.5                                    | 6.4              |
|                            | 03.45-03.50 | 55.4  | 50.8                                    | 56.6                        | 46.8                                    | 9.8              |
|                            | 03.50-03.55 | 58.6  | 53.5                                    | 60.0                        | 51.1                                    | 8.9              |
|                            | 03.55-04.00 | 53.7  | 48.1                                    | 55.3                        | 46.6                                    | 8.7              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(15/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 18-19/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 20.                        | 04.00-04.05 | 53.5  | 49.6                                    | 54.2                        | 48.2                                    | 6.0              |
|                            | 04.05-04.10 | 54.0  | 48.8                                    | 55.4                        | 47.7                                    | 7.7              |
|                            | 04.10-04.15 | 52.4  | 49.3                                    | 52.5                        | 48.2                                    | 4.3              |
|                            | 04.15-04.20 | 53.2  | 48.6                                    | 54.4                        | 47.5                                    | 6.8              |
|                            | 04.20-04.25 | 53.7  | 48.8                                    | 55.0                        | 47.5                                    | 7.5              |
|                            | 04.25-04.30 | 53.0  | 52.5                                    | 46.4                        | 48.8                                    | -2.4             |
|                            | 04.30-04.35 | 53.6  | 53.8                                    | 53.6                        | 49.0                                    | 4.6              |
|                            | 04.35-04.40 | 53.1  | 49.6                                    | 53.5                        | 48.4                                    | 5.1              |
|                            | 04.40-04.45 | 52.9  | 49.5                                    | 53.2                        | 48.2                                    | 5.0              |
|                            | 04.45-04.50 | 53.5  | 65.2                                    | 53.5                        | 48.7                                    | 4.8              |
|                            | 04.50-04.55 | 52.7  | 49.4                                    | 53.0                        | 47.6                                    | 5.4              |
|                            | 04.55-05.00 | 52.4  | 47.9                                    | 53.5                        | 46.9                                    | 6.6              |
| 21.                        | 05.00-05.05 | 52.0  | 48.2                                    | 52.7                        | 46.5                                    | 6.2              |
|                            | 05.05-05.10 | 51.5  | 49.1                                    | 50.8                        | 48.2                                    | 2.6              |
|                            | 05.10-05.15 | 52.1  | 68.7                                    | 52.1                        | 48.4                                    | 3.7              |
|                            | 05.15-05.20 | 52.4  | 63.5                                    | 52.4                        | 47.2                                    | 5.2              |
|                            | 05.20-05.25 | 52.6  | 62.6                                    | 52.6                        | 46.4                                    | 6.2              |
|                            | 05.25-05.30 | 53.7  | 48.8                                    | 55.0                        | 46.5                                    | 8.5              |
|                            | 05.30-05.35 | 53.4  | 58.9                                    | 53.4                        | 47.0                                    | 6.4              |
|                            | 05.35-05.40 | 53.0  | 57.1                                    | 53.0                        | 47.0                                    | 6.0              |
|                            | 05.40-05.45 | 55.3  | 50.6                                    | 56.5                        | 47.5                                    | 9.0              |
|                            | 05.45-05.50 | 52.7  | 65.1                                    | 52.7                        | 46.2                                    | 6.5              |
|                            | 05.50-05.55 | 52.8  | 60.4                                    | 52.8                        | 44.8                                    | 8.0              |
|                            | 05.55-06.00 | 53.1  | 48.7                                    | 54.1                        | 45.2                                    | 8.9              |
| 22.                        | 06.00-07.00 | 55.0  | 61.4                                    | 55.0                        | 49.8                                    | 5.2              |
| 23.                        | 07.00-08.00 | 55.1  | 62.3                                    | 55.1                        | 46.7                                    | 8.4              |
| 24.                        | 08.00-09.00 | 53.1  | 62.3                                    | 53.1                        | 48.9                                    | 4.2              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/16-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(16/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 19-20/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 09.00-10.00 | 51.4  | 57.5                                    | 51.4                        | 50.5                                    | 0.9              |
| 2.                         | 10.00-11.00 | 52.1  | 57.0                                    | 52.1                        | 48.9                                    | 3.2              |
| 3.                         | 11.00-12.00 | 53.5  | 59.7                                    | 53.5                        | 49.2                                    | 4.3              |
| 4.                         | 12.00-13.00 | 54.3  | 52.7                                    | 49.3                        | 45.0                                    | 4.4              |
| 5.                         | 13.00-14.00 | 53.3  | 51.3                                    | 48.9                        | 43.8                                    | 5.2              |
| 6.                         | 14.00-15.00 | 53.2  | 48.7                                    | 51.3                        | 45.3                                    | 6.0              |
| 7.                         | 15.00-16.00 | 51.7  | 58.6                                    | 51.7                        | 45.4                                    | 6.2              |
| 8.                         | 16.00-17.00 | 54.1  | 48.4                                    | 52.8                        | 45.3                                    | 7.4              |
| 9.                         | 17.00-18.00 | 52.2  | 52.6                                    | 52.2                        | 44.3                                    | 7.9              |
| 10.                        | 18.00-19.00 | 51.3  | 60.1                                    | 51.3                        | 45.7                                    | 5.7              |
| 11.                        | 19.00-20.00 | 52.3  | 61.4                                    | 52.3                        | 46.1                                    | 6.2              |
| 12.                        | 20.00-21.00 | 52.4  | 61.9                                    | 52.4                        | 50.3                                    | 2.1              |
| 13.                        | 21.00-22.00 | 52.5  | 63.1                                    | 52.5                        | 51.7                                    | 0.8              |
| 14.                        | 22.00-22.05 | 52.7  | 64.1                                    | 52.7                        | 53.5                                    | -0.8             |
|                            | 22.05-22.10 | 52.6  | 65.8                                    | 52.6                        | 54.1                                    | -1.5             |
|                            | 22.10-22.15 | 53.1  | 64.0                                    | 53.1                        | 55.3                                    | -2.2             |
|                            | 22.15-22.20 | 52.8  | 62.6                                    | 52.8                        | 54.6                                    | -1.8             |
|                            | 22.20-22.25 | 52.7  | 62.0                                    | 52.7                        | 49.3                                    | 3.4              |
|                            | 22.25-22.30 | 53.0  | 67.1                                    | 53.0                        | 49.6                                    | 3.4              |
|                            | 22.30-22.35 | 53.2  | 50.6                                    | 52.7                        | 49.1                                    | 3.6              |
|                            | 22.35-22.40 | 52.9  | 49.8                                    | 53.0                        | 48.5                                    | 4.5              |
|                            | 22.40-22.45 | 54.9  | 54.0                                    | 50.6                        | 48.3                                    | 2.3              |
|                            | 22.45-22.50 | 54.1  | 49.0                                    | 55.5                        | 47.7                                    | 7.8              |
|                            | 22.50-22.55 | 53.7  | 50.2                                    | 54.1                        | 47.8                                    | 6.3              |
|                            | 22.55-23.00 | 55.0  | 50.9                                    | 55.9                        | 47.8                                    | 8.1              |
| 15.                        | 23.00-23.05 | 58.6  | 63.2                                    | 58.6                        | 49.6                                    | 9.0              |
|                            | 23.05-23.10 | 58.5  | 64.2                                    | 58.5                        | 48.9                                    | 9.6              |
|                            | 23.10-23.15 | 54.8  | 62.0                                    | 54.8                        | 49.3                                    | 5.5              |
|                            | 23.15-23.20 | 54.3  | 50.0                                    | 55.3                        | 48.6                                    | 6.7              |
|                            | 23.20-23.25 | 53.4  | 49.1                                    | 54.4                        | 47.7                                    | 6.7              |
|                            | 23.25-23.30 | 51.9  | 51.1                                    | 47.2                        | 47.9                                    | -0.7             |
|                            | 23.30-23.35 | 52.6  | 52.0                                    | 46.7                        | 48.6                                    | -1.9             |
|                            | 23.35-23.40 | 52.2  | 49.8                                    | 51.5                        | 48.4                                    | 3.1              |
|                            | 23.40-23.45 | 52.1  | 49.6                                    | 51.5                        | 48.4                                    | 3.1              |
|                            | 23.45-23.50 | 52.4  | 49.3                                    | 52.5                        | 47.5                                    | 5.0              |
|                            | 23.50-23.55 | 61.1  | 55.6                                    | 62.7                        | 53.2                                    | 9.5              |
|                            | 23.55-00.00 | 55.9  | 49.3                                    | 57.8                        | 48.3                                    | 9.5              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited  
บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(16/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | บริเวณพื้นที่โครงการ                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 19-20/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 16.                        | 00.00-00.05 | 53.1  | 49.4                                    | 53.7                        | 48.1                                    | 5.6              |
|                            | 00.05-00.10 | 52.3  | 49.5                                    | 52.1                        | 48.1                                    | 4.0              |
|                            | 00.10-00.15 | 54.5  | 49.2                                    | 56.0                        | 47.8                                    | 8.2              |
|                            | 00.15-00.20 | 52.7  | 67.5                                    | 52.7                        | 48.4                                    | 4.3              |
|                            | 00.20-00.25 | 51.8  | 65.4                                    | 51.8                        | 54.2                                    | -2.4             |
|                            | 00.25-00.30 | 51.9  | 58.2                                    | 51.9                        | 50.3                                    | 1.6              |
|                            | 00.30-00.35 | 52.0  | 53.2                                    | 52.0                        | 50.1                                    | 1.9              |
|                            | 00.35-00.40 | 51.6  | 56.8                                    | 51.6                        | 50.1                                    | 1.5              |
|                            | 00.40-00.45 | 51.9  | 53.2                                    | 51.9                        | 50.1                                    | 1.8              |
|                            | 00.45-00.50 | 52.5  | 53.2                                    | 52.5                        | 50.1                                    | 2.4              |
|                            | 00.50-00.55 | 52.6  | 63.4                                    | 52.6                        | 49.7                                    | 2.9              |
|                            | 00.55-01.00 | 62.2  | 56.1                                    | 64.0                        | 54.6                                    | 9.4              |
| 17.                        | 01.00-01.05 | 52.8  | 66.1                                    | 52.8                        | 48.5                                    | 4.3              |
|                            | 01.05-01.10 | 51.6  | 52.0                                    | 51.6                        | 49.6                                    | 2.0              |
|                            | 01.10-01.15 | 51.4  | 53.9                                    | 51.4                        | 49.5                                    | 1.9              |
|                            | 01.15-01.20 | 51.1  | 67.5                                    | 51.1                        | 51.4                                    | -0.3             |
|                            | 01.20-01.25 | 49.8  | 53.6                                    | 49.8                        | 51.1                                    | -1.3             |
|                            | 01.25-01.30 | 50.4  | 54.5                                    | 50.4                        | 51.8                                    | -1.4             |
|                            | 01.30-01.35 | 52.9  | 53.7                                    | 52.9                        | 51.3                                    | 1.6              |
|                            | 01.35-01.40 | 54.5  | 64.0                                    | 54.5                        | 51.5                                    | 3.0              |
|                            | 01.40-01.45 | 54.3  | 50.6                                    | 54.9                        | 49.5                                    | 5.4              |
|                            | 01.45-01.50 | 51.7  | 50.9                                    | 47.0                        | 48.6                                    | -1.6             |
|                            | 01.50-01.55 | 52.4  | 50.0                                    | 51.7                        | 49.0                                    | 2.7              |
|                            | 01.55-02.00 | 54.9  | 49.5                                    | 56.4                        | 48.3                                    | 8.1              |
| 18.                        | 02.00-02.05 | 55.6  | 49.5                                    | 57.4                        | 48.4                                    | 9.0              |
|                            | 02.05-02.10 | 55.8  | 49.8                                    | 57.5                        | 48.4                                    | 9.1              |
|                            | 02.10-02.15 | 56.1  | 49.9                                    | 57.9                        | 48.5                                    | 9.4              |
|                            | 02.15-02.20 | 55.4  | 51.0                                    | 56.4                        | 49.5                                    | 6.9              |
|                            | 02.20-02.25 | 56.5  | 51.2                                    | 58.0                        | 49.5                                    | 8.5              |
|                            | 02.25-02.30 | 53.9  | 66.3                                    | 53.9                        | 48.2                                    | 5.7              |
|                            | 02.30-02.35 | 55.9  | 66.0                                    | 55.9                        | 49.5                                    | 6.4              |
|                            | 02.35-02.40 | 55.3  | 61.3                                    | 55.3                        | 50.9                                    | 4.4              |
|                            | 02.40-02.45 | 53.5  | 53.3                                    | 43.0                        | 50.9                                    | -7.9             |
|                            | 02.45-02.50 | 50.9  | 69.0                                    | 50.9                        | 50.6                                    | 0.3              |
|                            | 02.50-02.55 | 51.4  | 51.7                                    | 51.4                        | 49.5                                    | 1.9              |
|                            | 02.55-03.00 | 52.4  | 52.6                                    | 52.4                        | 49.9                                    | 2.5              |
| 19.                        | 03.00-03.05 | 52.3  | 53.0                                    | 52.3                        | 49.8                                    | 2.5              |
|                            | 03.05-03.10 | 53.4  | 54.1                                    | 53.4                        | 51.5                                    | 1.9              |
|                            | 03.10-03.15 | 53.0  | 60.9                                    | 53.0                        | 49.0                                    | 4.0              |
|                            | 03.15-03.20 | 52.7  | 48.8                                    | 53.4                        | 47.5                                    | 5.9              |
|                            | 03.20-03.25 | 52.3  | 48.1                                    | 53.2                        | 47.1                                    | 6.1              |
|                            | 03.25-03.30 | 52.5  | 48.0                                    | 53.6                        | 46.9                                    | 6.7              |
|                            | 03.30-03.35 | 52.5  | 47.8                                    | 53.7                        | 47.0                                    | 6.7              |
|                            | 03.35-03.40 | 52.7  | 47.3                                    | 54.2                        | 46.4                                    | 7.8              |
|                            | 03.40-03.45 | 53.2  | 47.3                                    | 54.9                        | 46.5                                    | 8.4              |
|                            | 03.45-03.50 | 53.4  | 50.8                                    | 52.9                        | 46.8                                    | 6.1              |
|                            | 03.50-03.55 | 53.3  | 53.5                                    | 53.3                        | 51.1                                    | 2.2              |
|                            | 03.55-04.00 | 53.1  | 48.1                                    | 54.4                        | 46.6                                    | 7.8              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(16/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | บริเวณพื้นที่โครงการ                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 19-20/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 20.                        | 04.00-04.05 | 53.7  | 49.6                                    | 54.6                        | 48.2                                    | 6.4              |
|                            | 04.05-04.10 | 54.0  | 48.8                                    | 55.4                        | 47.7                                    | 7.7              |
|                            | 04.10-04.15 | 53.3  | 49.3                                    | 54.1                        | 48.2                                    | 5.9              |
|                            | 04.15-04.20 | 53.4  | 48.6                                    | 54.7                        | 47.5                                    | 7.2              |
|                            | 04.20-04.25 | 52.8  | 48.8                                    | 53.6                        | 47.5                                    | 6.1              |
|                            | 04.25-04.30 | 53.6  | 52.5                                    | 50.1                        | 48.8                                    | 1.3              |
|                            | 04.30-04.35 | 53.4  | 53.8                                    | 53.4                        | 49.0                                    | 4.4              |
|                            | 04.35-04.40 | 53.3  | 49.6                                    | 53.9                        | 48.4                                    | 5.5              |
|                            | 04.40-04.45 | 53.7  | 49.5                                    | 54.6                        | 48.2                                    | 6.4              |
|                            | 04.45-04.50 | 53.0  | 65.2                                    | 53.0                        | 48.7                                    | 4.3              |
|                            | 04.50-04.55 | 52.5  | 49.4                                    | 52.6                        | 47.6                                    | 5.0              |
|                            | 04.55-05.00 | 52.2  | 47.9                                    | 53.2                        | 46.9                                    | 6.3              |
| 21.                        | 05.00-05.05 | 52.6  | 48.2                                    | 53.6                        | 46.5                                    | 7.1              |
|                            | 05.05-05.10 | 52.4  | 49.1                                    | 52.7                        | 48.2                                    | 4.5              |
|                            | 05.10-05.15 | 52.0  | 68.7                                    | 52.0                        | 48.4                                    | 3.6              |
|                            | 05.15-05.20 | 52.0  | 63.5                                    | 52.0                        | 47.2                                    | 4.8              |
|                            | 05.20-05.25 | 52.3  | 62.6                                    | 52.3                        | 46.4                                    | 5.9              |
|                            | 05.25-05.30 | 52.9  | 48.8                                    | 53.8                        | 46.5                                    | 7.3              |
|                            | 05.30-05.35 | 52.4  | 58.9                                    | 52.4                        | 47.0                                    | 5.4              |
|                            | 05.35-05.40 | 52.7  | 57.1                                    | 52.7                        | 47.0                                    | 5.7              |
|                            | 05.40-05.45 | 53.3  | 50.6                                    | 53.0                        | 47.5                                    | 5.5              |
|                            | 05.45-05.50 | 52.3  | 65.1                                    | 52.3                        | 46.2                                    | 6.1              |
|                            | 05.50-05.55 | 52.8  | 60.4                                    | 52.8                        | 44.8                                    | 8.0              |
|                            | 05.55-06.00 | 52.6  | 48.7                                    | 53.3                        | 45.2                                    | 8.1              |
| 22.                        | 06.00-07.00 | 53.6  | 61.4                                    | 53.6                        | 49.8                                    | 3.8              |
| 23.                        | 07.00-08.00 | 52.8  | 62.3                                    | 52.8                        | 46.7                                    | 6.0              |
| 24.                        | 08.00-09.00 | 58.1  | 62.3                                    | 58.1                        | 48.9                                    | 9.2              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/17-21  
 Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
 Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
 Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
 Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(17/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 20-21/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 09.00-10.00 | 61.6  | 57.5                                    | 59.5                        | 50.5                                    | 9.0              |
| 2.                         | 10.00-11.00 | 59.7  | 57.0                                    | 56.3                        | 48.9                                    | 7.4              |
| 3.                         | 11.00-12.00 | 58.1  | 59.7                                    | 58.1                        | 49.2                                    | 8.9              |
| 4.                         | 12.00-13.00 | 53.6  | 52.7                                    | 46.3                        | 45.0                                    | 1.3              |
| 5.                         | 13.00-14.00 | 53.3  | 51.3                                    | 48.8                        | 43.8                                    | 5.0              |
| 6.                         | 14.00-15.00 | 52.9  | 48.7                                    | 50.8                        | 45.3                                    | 5.5              |
| 7.                         | 15.00-16.00 | 53.5  | 58.6                                    | 53.5                        | 45.4                                    | 8.1              |
| 8.                         | 16.00-17.00 | 55.3  | 48.4                                    | 54.3                        | 45.3                                    | 9.0              |
| 9.                         | 17.00-18.00 | 54.7  | 52.6                                    | 50.5                        | 44.3                                    | 6.2              |
| 10.                        | 18.00-19.00 | 54.5  | 60.1                                    | 54.5                        | 45.7                                    | 8.9              |
| 11.                        | 19.00-20.00 | 55.2  | 61.4                                    | 55.2                        | 46.1                                    | 9.1              |
| 12.                        | 20.00-21.00 | 55.4  | 61.9                                    | 55.4                        | 50.3                                    | 5.1              |
| 13.                        | 21.00-22.00 | 54.7  | 63.1                                    | 54.7                        | 51.7                                    | 3.1              |
| 14.                        | 22.00-22.05 | 55.2  | 64.1                                    | 55.2                        | 53.5                                    | 1.7              |
|                            | 22.05-22.10 | 55.2  | 65.8                                    | 55.2                        | 54.1                                    | 1.1              |
|                            | 22.10-22.15 | 55.2  | 64.0                                    | 55.2                        | 55.3                                    | -0.1             |
|                            | 22.15-22.20 | 55.1  | 62.6                                    | 55.1                        | 54.6                                    | 0.5              |
|                            | 22.20-22.25 | 54.4  | 62.0                                    | 54.4                        | 49.3                                    | 5.1              |
|                            | 22.25-22.30 | 53.8  | 67.1                                    | 53.8                        | 49.6                                    | 4.2              |
|                            | 22.30-22.35 | 53.6  | 50.6                                    | 53.6                        | 49.1                                    | 4.5              |
|                            | 22.35-22.40 | 52.7  | 49.8                                    | 52.6                        | 48.5                                    | 4.1              |
|                            | 22.40-22.45 | 52.5  | 54.0                                    | 52.5                        | 48.3                                    | 4.2              |
|                            | 22.45-22.50 | 52.7  | 49.0                                    | 53.3                        | 47.7                                    | 5.6              |
|                            | 22.50-22.55 | 53.0  | 50.2                                    | 52.8                        | 47.8                                    | 5.0              |
|                            | 22.55-23.00 | 53.6  | 50.9                                    | 53.3                        | 47.8                                    | 5.5              |
| 15.                        | 23.00-23.05 | 53.7  | 63.2                                    | 53.7                        | 49.6                                    | 4.1              |
|                            | 23.05-23.10 | 53.5  | 64.2                                    | 53.5                        | 48.9                                    | 4.6              |
|                            | 23.10-23.15 | 53.2  | 62.0                                    | 53.2                        | 49.3                                    | 3.9              |
|                            | 23.15-23.20 | 52.1  | 50.0                                    | 50.9                        | 48.6                                    | 2.3              |
|                            | 23.20-23.25 | 52.3  | 49.1                                    | 52.5                        | 47.7                                    | 4.8              |
|                            | 23.25-23.30 | 51.8  | 51.1                                    | 46.5                        | 47.9                                    | -1.4             |
|                            | 23.30-23.35 | 51.9  | 52.0                                    | 51.9                        | 48.6                                    | 3.3              |
|                            | 23.35-23.40 | 50.3  | 49.8                                    | 43.7                        | 48.4                                    | -4.7             |
|                            | 23.40-23.45 | 50.8  | 49.6                                    | 47.6                        | 48.4                                    | -0.8             |
|                            | 23.45-23.50 | 50.3  | 49.3                                    | 46.4                        | 47.5                                    | -1.1             |
|                            | 23.50-23.55 | 50.8  | 55.6                                    | 50.8                        | 53.2                                    | -2.4             |
|                            | 23.55-00.00 | 50.5  | 49.3                                    | 47.3                        | 48.3                                    | -1.0             |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(17/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 20-21/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 16.                        | 00.00-00.05 | 51.5  | 49.4                                    | 50.3                        | 48.1                                    | 2.2              |
|                            | 00.05-00.10 | 51.8  | 49.5                                    | 50.9                        | 48.1                                    | 2.8              |
|                            | 00.10-00.15 | 50.5  | 49.2                                    | 47.6                        | 47.8                                    | -0.2             |
|                            | 00.15-00.20 | 50.4  | 67.5                                    | 50.4                        | 48.4                                    | 2.0              |
|                            | 00.20-00.25 | 50.3  | 65.4                                    | 50.3                        | 54.2                                    | -3.9             |
|                            | 00.25-00.30 | 50.4  | 58.2                                    | 50.4                        | 50.3                                    | 0.1              |
|                            | 00.30-00.35 | 50.0  | 53.2                                    | 50.0                        | 50.1                                    | -0.1             |
|                            | 00.35-00.40 | 49.7  | 56.8                                    | 49.7                        | 50.1                                    | -0.4             |
|                            | 00.40-00.45 | 50.1  | 53.2                                    | 50.1                        | 50.1                                    | 0.0              |
|                            | 00.45-00.50 | 50.3  | 53.2                                    | 50.3                        | 50.1                                    | 0.2              |
|                            | 00.50-00.55 | 50.4  | 63.4                                    | 50.4                        | 49.7                                    | 0.7              |
| 17.                        | 00.55-01.00 | 50.6  | 56.1                                    | 50.6                        | 54.6                                    | -4.0             |
|                            | 01.00-01.05 | 50.9  | 66.1                                    | 50.9                        | 48.5                                    | 2.4              |
|                            | 01.05-01.10 | 50.8  | 52.0                                    | 50.8                        | 49.6                                    | 1.2              |
|                            | 01.10-01.15 | 50.7  | 53.9                                    | 50.7                        | 49.5                                    | 1.2              |
|                            | 01.15-01.20 | 49.6  | 67.5                                    | 49.6                        | 51.4                                    | -1.8             |
|                            | 01.20-01.25 | 49.6  | 53.6                                    | 49.6                        | 51.1                                    | -1.5             |
|                            | 01.25-01.30 | 49.8  | 54.5                                    | 49.8                        | 51.8                                    | -2.0             |
|                            | 01.30-01.35 | 50.5  | 53.7                                    | 50.5                        | 51.3                                    | -0.8             |
|                            | 01.35-01.40 | 49.8  | 64.0                                    | 49.8                        | 51.5                                    | -1.7             |
|                            | 01.40-01.45 | 49.7  | 50.6                                    | 49.7                        | 49.5                                    | 0.2              |
|                            | 01.45-01.50 | 50.2  | 50.9                                    | 50.2                        | 48.6                                    | 1.6              |
| 18.                        | 01.50-01.55 | 50.8  | 50.0                                    | 46.1                        | 49.0                                    | -2.9             |
|                            | 01.55-02.00 | 51.0  | 49.5                                    | 48.7                        | 48.3                                    | 0.4              |
|                            | 02.00-02.05 | 50.0  | 49.5                                    | 43.4                        | 48.4                                    | -5.0             |
|                            | 02.05-02.10 | 50.9  | 49.8                                    | 47.4                        | 48.4                                    | -1.0             |
|                            | 02.10-02.15 | 51.1  | 49.9                                    | 47.9                        | 48.5                                    | -0.6             |
|                            | 02.15-02.20 | 50.8  | 51.0                                    | 50.8                        | 49.5                                    | 1.3              |
|                            | 02.20-02.25 | 50.6  | 51.2                                    | 50.6                        | 49.5                                    | 1.1              |
|                            | 02.25-02.30 | 50.7  | 66.3                                    | 50.7                        | 48.2                                    | 2.5              |
|                            | 02.30-02.35 | 50.7  | 66.0                                    | 50.7                        | 49.5                                    | 1.2              |
|                            | 02.35-02.40 | 50.1  | 61.3                                    | 50.1                        | 50.9                                    | -0.8             |
|                            | 02.40-02.45 | 50.0  | 53.3                                    | 50.0                        | 50.9                                    | -0.9             |
| 19.                        | 02.45-02.50 | 50.3  | 69.0                                    | 50.3                        | 50.6                                    | -0.3             |
|                            | 02.50-02.55 | 51.1  | 51.7                                    | 51.1                        | 49.5                                    | 1.6              |
|                            | 02.55-03.00 | 51.0  | 52.6                                    | 51.0                        | 49.9                                    | 1.1              |
|                            | 03.00-03.05 | 54.3  | 53.0                                    | 51.4                        | 49.8                                    | 1.6              |
|                            | 03.05-03.10 | 51.8  | 54.1                                    | 51.8                        | 51.5                                    | 0.3              |
|                            | 03.10-03.15 | 51.7  | 60.9                                    | 51.7                        | 49.0                                    | 2.7              |
|                            | 03.15-03.20 | 51.2  | 48.8                                    | 50.5                        | 47.5                                    | 3.0              |
|                            | 03.20-03.25 | 50.6  | 48.1                                    | 50.0                        | 47.1                                    | 2.9              |
|                            | 03.25-03.30 | 50.8  | 48.0                                    | 50.6                        | 46.9                                    | 3.7              |
|                            | 03.30-03.35 | 51.0  | 47.8                                    | 51.2                        | 47.0                                    | 4.2              |
|                            | 03.35-03.40 | 51.0  | 47.3                                    | 51.6                        | 46.4                                    | 5.2              |
|                            | 03.40-03.45 | 50.6  | 47.3                                    | 50.9                        | 46.5                                    | 4.4              |
|                            | 03.45-03.50 | 51.0  | 50.8                                    | 40.5                        | 46.8                                    | -6.3             |
|                            | 03.50-03.55 | 50.5  | 53.5                                    | 50.5                        | 51.1                                    | -0.6             |
|                            | 03.55-04.00 | 50.5  | 48.1                                    | 49.8                        | 46.6                                    | 3.2              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(17/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 20-21/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 20.                        | 04.00-04.05 | 50.7  | 49.6                                    | 47.2                        | 48.2                                    | -1.0             |
|                            | 04.05-04.10 | 53.5  | 48.8                                    | 54.7                        | 47.7                                    | 7.0              |
|                            | 04.10-04.15 | 50.7  | 49.3                                    | 48.1                        | 48.2                                    | -0.1             |
|                            | 04.15-04.20 | 50.2  | 48.6                                    | 48.1                        | 47.5                                    | 0.6              |
|                            | 04.20-04.25 | 50.2  | 48.8                                    | 47.6                        | 47.5                                    | 0.1              |
|                            | 04.25-04.30 | 50.1  | 52.5                                    | 50.1                        | 48.8                                    | 1.3              |
|                            | 04.30-04.35 | 49.8  | 53.8                                    | 49.8                        | 49.0                                    | 0.8              |
|                            | 04.35-04.40 | 49.8  | 49.6                                    | 39.3                        | 48.4                                    | -9.1             |
|                            | 04.40-04.45 | 50.2  | 49.5                                    | 44.9                        | 48.2                                    | -3.3             |
|                            | 04.45-04.50 | 49.7  | 65.2                                    | 49.7                        | 48.7                                    | 1.0              |
| 21.                        | 04.50-04.55 | 51.0  | 49.4                                    | 48.9                        | 47.6                                    | 1.3              |
|                            | 04.55-05.00 | 51.8  | 47.9                                    | 52.5                        | 46.9                                    | 5.6              |
|                            | 05.00-05.05 | 51.3  | 48.2                                    | 51.4                        | 46.5                                    | 4.9              |
|                            | 05.05-05.10 | 51.7  | 49.1                                    | 51.2                        | 48.2                                    | 3.0              |
|                            | 05.10-05.15 | 52.0  | 68.7                                    | 52.0                        | 48.4                                    | 3.6              |
|                            | 05.15-05.20 | 52.1  | 63.5                                    | 52.1                        | 47.2                                    | 4.9              |
|                            | 05.20-05.25 | 52.1  | 62.6                                    | 52.1                        | 46.4                                    | 5.7              |
|                            | 05.25-05.30 | 52.0  | 48.8                                    | 52.2                        | 46.5                                    | 5.7              |
|                            | 05.30-05.35 | 52.1  | 58.9                                    | 52.1                        | 47.0                                    | 5.1              |
|                            | 05.35-05.40 | 51.7  | 57.1                                    | 51.7                        | 47.0                                    | 4.7              |
| 22.                        | 05.40-05.45 | 51.5  | 50.6                                    | 47.2                        | 47.5                                    | -0.3             |
|                            | 05.45-05.50 | 51.9  | 65.1                                    | 51.9                        | 46.2                                    | 5.7              |
|                            | 05.50-05.55 | 51.9  | 60.4                                    | 51.9                        | 44.8                                    | 7.1              |
|                            | 05.55-06.00 | 51.3  | 48.7                                    | 50.8                        | 45.2                                    | 5.6              |
|                            | 06.00-07.00 | 52.2  | 61.4                                    | 52.2                        | 49.8                                    | 2.4              |
|                            | 07.00-08.00 | 53.5  | 62.3                                    | 53.5                        | 46.7                                    | 6.8              |
|                            | 08.00-09.00 | 52.3  | 62.3                                    | 52.3                        | 48.9                                    | 3.4              |
|                            |             |   |   |                             |   |                  |
|                            |             |   |   |                             |   |                  |
|                            |             |   |   |                             |   |                  |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/18-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(18/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 21-22/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 09.00-10.00 | 54.0  | 57.5                                    | 54.0                        | 50.5                                    | 3.5              |
| 2.                         | 10.00-11.00 | 53.1  | 57.0                                    | 53.1                        | 48.9                                    | 4.2              |
| 3.                         | 11.00-12.00 | 54.4  | 59.7                                    | 54.4                        | 49.2                                    | 5.2              |
| 4.                         | 12.00-13.00 | 52.8  | 52.7                                    | 37.8                        | 45.0                                    | -7.1             |
| 5.                         | 13.00-14.00 | 52.2  | 51.3                                    | 44.9                        | 43.8                                    | 1.2              |
| 6.                         | 14.00-15.00 | 52.3  | 48.7                                    | 49.8                        | 45.3                                    | 4.5              |
| 7.                         | 15.00-16.00 | 53.0  | 58.6                                    | 53.0                        | 45.4                                    | 7.6              |
| 8.                         | 16.00-17.00 | 53.1  | 48.4                                    | 51.3                        | 45.3                                    | 6.0              |
| 9.                         | 17.00-18.00 | 54.5  | 52.6                                    | 49.8                        | 44.3                                    | 5.5              |
| 10.                        | 18.00-19.00 | 52.1  | 60.1                                    | 52.1                        | 45.7                                    | 6.5              |
| 11.                        | 19.00-20.00 | 51.7  | 61.4                                    | 51.7                        | 46.1                                    | 5.6              |
| 12.                        | 20.00-21.00 | 53.4  | 61.9                                    | 53.4                        | 50.3                                    | 3.2              |
| 13.                        | 21.00-22.00 | 52.0  | 63.1                                    | 52.0                        | 51.7                                    | 0.4              |
| 14.                        | 22.00-22.05 | 51.8  | 64.1                                    | 51.8                        | 53.5                                    | -1.7             |
|                            | 22.05-22.10 | 51.8  | 65.8                                    | 51.8                        | 54.1                                    | -2.3             |
|                            | 22.10-22.15 | 51.9  | 64.0                                    | 51.9                        | 55.3                                    | -3.4             |
|                            | 22.15-22.20 | 51.4  | 62.6                                    | 51.4                        | 54.6                                    | -3.2             |
|                            | 22.20-22.25 | 51.3  | 62.0                                    | 51.3                        | 49.3                                    | 2.0              |
|                            | 22.25-22.30 | 52.0  | 67.1                                    | 52.0                        | 49.6                                    | 2.4              |
|                            | 22.30-22.35 | 50.3  | 50.6                                    | 50.3                        | 49.1                                    | 1.2              |
|                            | 22.35-22.40 | 49.9  | 49.8                                    | 36.5                        | 48.5                                    | -12.0            |
|                            | 22.40-22.45 | 50.2  | 54.0                                    | 50.2                        | 48.3                                    | 1.9              |
|                            | 22.45-22.50 | 49.9  | 49.0                                    | 45.6                        | 47.7                                    | -2.1             |
|                            | 22.50-22.55 | 50.7  | 50.2                                    | 44.1                        | 47.8                                    | -3.7             |
|                            | 22.55-23.00 | 50.3  | 50.9                                    | 50.3                        | 47.8                                    | 2.5              |
| 15.                        | 23.00-23.05 | 51.0  | 63.2                                    | 51.0                        | 49.6                                    | 1.4              |
|                            | 23.05-23.10 | 51.0  | 64.2                                    | 51.0                        | 48.9                                    | 2.1              |
|                            | 23.10-23.15 | 52.3  | 62.0                                    | 52.3                        | 49.3                                    | 3.0              |
|                            | 23.15-23.20 | 50.5  | 50.0                                    | 43.9                        | 48.6                                    | -4.7             |
|                            | 23.20-23.25 | 49.8  | 49.1                                    | 44.5                        | 47.7                                    | -3.2             |
|                            | 23.25-23.30 | 50.1  | 51.1                                    | 50.1                        | 47.9                                    | 2.2              |
|                            | 23.30-23.35 | 51.3  | 52.0                                    | 51.3                        | 48.6                                    | 2.7              |
|                            | 23.35-23.40 | 50.4  | 49.8                                    | 44.5                        | 48.4                                    | -3.9             |
|                            | 23.40-23.45 | 51.2  | 49.6                                    | 49.1                        | 48.4                                    | 0.7              |
|                            | 23.45-23.50 | 50.6  | 49.3                                    | 47.7                        | 47.5                                    | 0.2              |
|                            | 23.50-23.55 | 49.9  | 55.6                                    | 49.9                        | 53.2                                    | -3.3             |
|                            | 23.55-00.00 | 50.7  | 49.3                                    | 48.1                        | 48.3                                    | -0.2             |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(18/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 21-22/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 16.                        | 00.00-00.05 | 50.1  | 49.4                                    | 44.8                        | 48.1                                    | -3.3             |
|                            | 00.05-00.10 | 50.3  | 49.5                                    | 45.6                        | 48.1                                    | -2.5             |
|                            | 00.10-00.15 | 51.8  | 49.2                                    | 51.3                        | 47.8                                    | 3.5              |
|                            | 00.15-00.20 | 52.9  | 67.5                                    | 52.9                        | 48.4                                    | 4.5              |
|                            | 00.20-00.25 | 50.4  | 65.4                                    | 50.4                        | 54.2                                    | -3.8             |
|                            | 00.25-00.30 | 50.1  | 58.2                                    | 50.1                        | 50.3                                    | -0.2             |
|                            | 00.30-00.35 | 49.5  | 53.2                                    | 49.5                        | 50.1                                    | -0.6             |
|                            | 00.35-00.40 | 49.3  | 56.8                                    | 49.3                        | 50.1                                    | -0.8             |
|                            | 00.40-00.45 | 50.4  | 53.2                                    | 50.4                        | 50.1                                    | 0.3              |
|                            | 00.45-00.50 | 50.5  | 53.2                                    | 50.5                        | 50.1                                    | 0.4              |
|                            | 00.50-00.55 | 52.3  | 63.4                                    | 52.3                        | 49.7                                    | 2.6              |
| 17.                        | 00.55-01.00 | 50.3  | 56.1                                    | 50.3                        | 54.6                                    | -4.3             |
|                            | 01.00-01.05 | 51.7  | 66.1                                    | 51.7                        | 48.5                                    | 3.2              |
|                            | 01.05-01.10 | 51.8  | 52.0                                    | 51.8                        | 49.6                                    | 2.2              |
|                            | 01.10-01.15 | 50.6  | 53.9                                    | 50.6                        | 49.5                                    | 1.1              |
|                            | 01.15-01.20 | 51.0  | 67.5                                    | 51.0                        | 51.4                                    | -0.4             |
|                            | 01.20-01.25 | 50.9  | 53.6                                    | 50.9                        | 51.1                                    | -0.2             |
|                            | 01.25-01.30 | 50.8  | 54.5                                    | 50.8                        | 51.8                                    | -1.0             |
|                            | 01.30-01.35 | 51.9  | 53.7                                    | 51.9                        | 51.3                                    | 0.6              |
|                            | 01.35-01.40 | 51.7  | 64.0                                    | 51.7                        | 51.5                                    | 0.2              |
|                            | 01.40-01.45 | 51.4  | 50.6                                    | 46.7                        | 49.5                                    | -2.8             |
|                            | 01.45-01.50 | 51.9  | 50.9                                    | 48.0                        | 48.6                                    | -0.6             |
| 18.                        | 01.50-01.55 | 51.9  | 50.0                                    | 50.4                        | 49.0                                    | 1.4              |
|                            | 01.55-02.00 | 51.9  | 49.5                                    | 51.2                        | 48.3                                    | 2.9              |
|                            | 02.00-02.05 | 52.7  | 49.5                                    | 52.9                        | 48.4                                    | 4.5              |
|                            | 02.05-02.10 | 51.0  | 49.8                                    | 47.8                        | 48.4                                    | -0.6             |
|                            | 02.10-02.15 | 50.9  | 49.9                                    | 47.0                        | 48.5                                    | -1.5             |
|                            | 02.15-02.20 | 50.8  | 51.0                                    | 50.8                        | 49.5                                    | 1.3              |
|                            | 02.20-02.25 | 51.1  | 51.2                                    | 51.1                        | 49.5                                    | 1.6              |
|                            | 02.25-02.30 | 50.2  | 66.3                                    | 50.2                        | 48.2                                    | 2.0              |
|                            | 02.30-02.35 | 52.4  | 66.0                                    | 52.4                        | 49.5                                    | 2.9              |
|                            | 02.35-02.40 | 50.2  | 61.3                                    | 50.2                        | 50.9                                    | -0.7             |
|                            | 02.40-02.45 | 49.8  | 53.3                                    | 49.8                        | 50.9                                    | -1.1             |
| 19.                        | 02.45-02.50 | 50.2  | 69.0                                    | 50.2                        | 50.6                                    | -0.4             |
|                            | 02.50-02.55 | 50.7  | 51.7                                    | 50.7                        | 49.5                                    | 1.2              |
|                            | 02.55-03.00 | 52.0  | 52.6                                    | 52.0                        | 49.9                                    | 2.1              |
|                            | 03.00-03.05 | 50.7  | 53.0                                    | 50.7                        | 49.8                                    | 0.9              |
|                            | 03.05-03.10 | 50.9  | 54.1                                    | 50.9                        | 51.5                                    | -0.6             |
|                            | 03.10-03.15 | 50.7  | 60.9                                    | 50.7                        | 49.0                                    | 1.7              |
|                            | 03.15-03.20 | 51.1  | 48.8                                    | 50.2                        | 47.5                                    | 2.7              |
|                            | 03.20-03.25 | 51.8  | 48.1                                    | 52.4                        | 47.1                                    | 5.3              |
|                            | 03.25-03.30 | 50.5  | 48.0                                    | 49.9                        | 46.9                                    | 3.0              |
|                            | 03.30-03.35 | 51.6  | 47.8                                    | 52.3                        | 47.0                                    | 5.3              |
|                            | 03.35-03.40 | 51.3  | 47.3                                    | 52.1                        | 46.4                                    | 5.7              |
|                            | 03.40-03.45 | 51.8  | 47.3                                    | 52.9                        | 46.5                                    | 6.4              |
|                            | 03.45-03.50 | 50.9  | 50.8                                    | 37.5                        | 46.8                                    | -9.3             |
|                            | 03.50-03.55 | 51.7  | 53.5                                    | 51.7                        | 51.1                                    | 0.6              |
|                            | 03.55-04.00 | 51.8  | 48.1                                    | 52.4                        | 46.6                                    | 5.8              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited  
บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(18/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | บริเวณพื้นที่โครงการ                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 21-22/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 20.                        | 04.00-04.05 | 51.3  | 49.6                                    | 49.4                        | 48.2                                    | 1.2              |
|                            | 04.05-04.10 | 50.1  | 48.8                                    | 47.2                        | 47.7                                    | -0.5             |
|                            | 04.10-04.15 | 50.8  | 49.3                                    | 48.5                        | 48.2                                    | 0.2              |
|                            | 04.15-04.20 | 51.4  | 48.6                                    | 51.2                        | 47.5                                    | 3.7              |
|                            | 04.20-04.25 | 50.3  | 48.8                                    | 48.0                        | 47.5                                    | 0.4              |
|                            | 04.25-04.30 | 50.5  | 52.5                                    | 50.5                        | 48.8                                    | 1.7              |
|                            | 04.30-04.35 | 51.1  | 53.8                                    | 51.1                        | 49.0                                    | 2.1              |
|                            | 04.35-04.40 | 51.3  | 49.6                                    | 49.4                        | 48.4                                    | 1.0              |
|                            | 04.40-04.45 | 51.5  | 49.5                                    | 50.2                        | 48.2                                    | 2.0              |
|                            | 04.45-04.50 | 51.1  | 65.2                                    | 51.1                        | 48.7                                    | 2.4              |
|                            | 04.50-04.55 | 52.6  | 49.4                                    | 52.8                        | 47.6                                    | 5.2              |
|                            | 04.55-05.00 | 51.0  | 47.9                                    | 51.1                        | 46.9                                    | 4.2              |
| 21.                        | 05.00-05.05 | 51.9  | 48.2                                    | 52.5                        | 46.5                                    | 6.0              |
|                            | 05.05-05.10 | 53.3  | 49.1                                    | 54.2                        | 48.2                                    | 6.0              |
|                            | 05.10-05.15 | 51.6  | 68.7                                    | 51.6                        | 48.4                                    | 3.2              |
|                            | 05.15-05.20 | 52.7  | 63.5                                    | 52.7                        | 47.2                                    | 5.5              |
|                            | 05.20-05.25 | 52.3  | 62.6                                    | 52.3                        | 46.4                                    | 5.9              |
|                            | 05.25-05.30 | 53.2  | 48.8                                    | 54.2                        | 46.5                                    | 7.7              |
|                            | 05.30-05.35 | 51.9  | 58.9                                    | 51.9                        | 47.0                                    | 4.9              |
|                            | 05.35-05.40 | 51.3  | 57.1                                    | 51.3                        | 47.0                                    | 4.3              |
|                            | 05.40-05.45 | 52.4  | 50.6                                    | 50.7                        | 47.5                                    | 3.2              |
|                            | 05.45-05.50 | 52.1  | 65.1                                    | 52.1                        | 46.2                                    | 5.9              |
|                            | 05.50-05.55 | 52.9  | 60.4                                    | 52.9                        | 44.8                                    | 8.1              |
|                            | 05.55-06.00 | 51.0  | 48.7                                    | 50.1                        | 45.2                                    | 4.9              |
| 22.                        | 06.00-07.00 | 52.2  | 61.4                                    | 52.2                        | 49.8                                    | 2.4              |
| 23.                        | 07.00-08.00 | 51.6  | 62.3                                    | 51.6                        | 46.7                                    | 4.8              |
| 24.                        | 08.00-09.00 | 51.4  | 62.3                                    | 51.4                        | 48.9                                    | 2.5              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/19-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(19/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 22-23/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 09.00-10.00 | 52.3  | 57.5                                    | 52.3                        | 50.5                                    | 1.8              |
| 2.                         | 10.00-11.00 | 52.5  | 57.0                                    | 52.5                        | 48.9                                    | 3.6              |
| 3.                         | 11.00-12.00 | 55.1  | 59.7                                    | 55.1                        | 49.2                                    | 5.9              |
| 4.                         | 12.00-13.00 | 54.4  | 52.7                                    | 49.6                        | 45.0                                    | 4.6              |
| 5.                         | 13.00-14.00 | 55.6  | 51.3                                    | 53.5                        | 43.8                                    | 9.8              |
| 6.                         | 14.00-15.00 | 55.3  | 48.7                                    | 54.3                        | 45.3                                    | 9.0              |
| 7.                         | 15.00-16.00 | 52.9  | 58.6                                    | 52.9                        | 45.4                                    | 7.5              |
| 8.                         | 16.00-17.00 | 53.8  | 48.4                                    | 52.3                        | 45.3                                    | 7.0              |
| 9.                         | 17.00-18.00 | 53.0  | 52.6                                    | 42.4                        | 44.3                                    | -1.9             |
| 10.                        | 18.00-19.00 | 50.9  | 60.1                                    | 50.9                        | 45.7                                    | 5.3              |
| 11.                        | 19.00-20.00 | 50.8  | 61.4                                    | 50.8                        | 46.1                                    | 4.8              |
| 12.                        | 20.00-21.00 | 51.1  | 61.9                                    | 51.1                        | 50.3                                    | 0.9              |
| 13.                        | 21.00-22.00 | 49.9  | 63.1                                    | 49.9                        | 51.7                                    | -1.8             |
| 14.                        | 22.00-22.05 | 49.9  | 64.1                                    | 49.9                        | 53.5                                    | -3.6             |
|                            | 22.05-22.10 | 50.1  | 65.8                                    | 50.1                        | 54.1                                    | -4.0             |
|                            | 22.10-22.15 | 50.9  | 64.0                                    | 50.9                        | 55.3                                    | -4.4             |
|                            | 22.15-22.20 | 49.7  | 62.6                                    | 49.7                        | 54.6                                    | -4.9             |
|                            | 22.20-22.25 | 50.0  | 62.0                                    | 50.0                        | 49.3                                    | 0.7              |
|                            | 22.25-22.30 | 49.8  | 67.1                                    | 49.8                        | 49.6                                    | 0.2              |
|                            | 22.30-22.35 | 50.5  | 50.6                                    | 50.5                        | 49.1                                    | 1.4              |
|                            | 22.35-22.40 | 51.5  | 49.8                                    | 49.6                        | 48.5                                    | 1.1              |
|                            | 22.40-22.45 | 50.2  | 54.0                                    | 50.2                        | 48.3                                    | 1.9              |
|                            | 22.45-22.50 | 50.4  | 49.0                                    | 47.8                        | 47.7                                    | 0.1              |
|                            | 22.50-22.55 | 51.0  | 50.2                                    | 46.3                        | 47.8                                    | -1.5             |
|                            | 22.55-23.00 | 51.5  | 50.9                                    | 45.6                        | 47.8                                    | -2.2             |
| 15.                        | 23.00-23.05 | 51.5  | 63.2                                    | 51.5                        | 49.6                                    | 1.9              |
|                            | 23.05-23.10 | 51.0  | 64.2                                    | 51.0                        | 48.9                                    | 2.1              |
|                            | 23.10-23.15 | 51.4  | 62.0                                    | 51.4                        | 49.3                                    | 2.1              |
|                            | 23.15-23.20 | 51.6  | 50.0                                    | 49.5                        | 48.6                                    | 0.9              |
|                            | 23.20-23.25 | 52.5  | 49.1                                    | 52.8                        | 47.7                                    | 5.2              |
|                            | 23.25-23.30 | 51.6  | 51.1                                    | 45.0                        | 47.9                                    | -2.9             |
|                            | 23.30-23.35 | 52.1  | 52.0                                    | 38.7                        | 48.6                                    | -9.9             |
|                            | 23.35-23.40 | 53.4  | 49.8                                    | 53.9                        | 48.4                                    | 5.5              |
|                            | 23.40-23.45 | 53.2  | 49.6                                    | 53.7                        | 48.4                                    | 5.3              |
|                            | 23.45-23.50 | 51.6  | 49.3                                    | 50.7                        | 47.5                                    | 3.2              |
|                            | 23.50-23.55 | 51.9  | 55.6                                    | 51.9                        | 53.2                                    | -1.3             |
|                            | 23.55-00.00 | 51.4  | 49.3                                    | 50.2                        | 48.3                                    | 1.9              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(19/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | บริเวณพื้นที่โครงการ                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 22-23/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 16.                        | 00.00-00.05 | 52.1  | 49.4                                    | 51.8                        | 48.1                                    | 3.7              |
|                            | 00.05-00.10 | 51.8  | 49.5                                    | 50.9                        | 48.1                                    | 2.8              |
|                            | 00.10-00.15 | 51.6  | 49.2                                    | 50.9                        | 47.8                                    | 3.1              |
|                            | 00.15-00.20 | 52.2  | 67.5                                    | 52.2                        | 48.4                                    | 3.8              |
|                            | 00.20-00.25 | 52.2  | 65.4                                    | 52.2                        | 54.2                                    | -2.0             |
|                            | 00.25-00.30 | 53.0  | 58.2                                    | 53.0                        | 50.3                                    | 2.7              |
|                            | 00.30-00.35 | 52.9  | 53.2                                    | 52.9                        | 50.1                                    | 2.8              |
|                            | 00.35-00.40 | 50.6  | 56.8                                    | 50.6                        | 50.1                                    | 0.5              |
|                            | 00.40-00.45 | 51.0  | 53.2                                    | 51.0                        | 50.1                                    | 0.9              |
|                            | 00.45-00.50 | 50.0  | 53.2                                    | 50.0                        | 50.1                                    | -0.1             |
| 17.                        | 00.50-00.55 | 50.7  | 63.4                                    | 50.7                        | 49.7                                    | 1.0              |
|                            | 00.55-01.00 | 50.7  | 56.1                                    | 50.7                        | 54.6                                    | -3.9             |
|                            | 01.00-01.05 | 49.8  | 66.1                                    | 49.8                        | 48.5                                    | 1.3              |
|                            | 01.05-01.10 | 49.8  | 52.0                                    | 49.8                        | 49.6                                    | 0.2              |
|                            | 01.10-01.15 | 51.7  | 53.9                                    | 51.7                        | 49.5                                    | 2.2              |
|                            | 01.15-01.20 | 53.9  | 67.5                                    | 53.9                        | 51.4                                    | 2.5              |
|                            | 01.20-01.25 | 52.1  | 53.6                                    | 52.1                        | 51.1                                    | 1.0              |
|                            | 01.25-01.30 | 49.2  | 54.5                                    | 49.2                        | 51.8                                    | -2.6             |
|                            | 01.30-01.35 | 49.7  | 53.7                                    | 49.7                        | 51.3                                    | -1.6             |
|                            | 01.35-01.40 | 49.6  | 64.0                                    | 49.6                        | 51.5                                    | -1.9             |
| 18.                        | 01.40-01.45 | 51.9  | 50.6                                    | 49.0                        | 49.5                                    | -0.5             |
|                            | 01.45-01.50 | 51.1  | 50.9                                    | 40.6                        | 48.6                                    | -8.0             |
|                            | 01.50-01.55 | 49.4  | 50.0                                    | 49.4                        | 49.0                                    | 0.4              |
|                            | 01.55-02.00 | 49.2  | 49.5                                    | 49.2                        | 48.3                                    | 0.9              |
|                            | 02.00-02.05 | 49.4  | 49.5                                    | 49.4                        | 48.4                                    | 1.0              |
|                            | 02.05-02.10 | 50.0  | 49.8                                    | 39.5                        | 48.4                                    | -8.9             |
|                            | 02.10-02.15 | 49.7  | 49.9                                    | 49.7                        | 48.5                                    | 1.2              |
|                            | 02.15-02.20 | 50.7  | 51.0                                    | 50.7                        | 49.5                                    | 1.2              |
|                            | 02.20-02.25 | 50.6  | 51.2                                    | 50.6                        | 49.5                                    | 1.1              |
|                            | 02.25-02.30 | 49.9  | 66.3                                    | 49.9                        | 48.2                                    | 1.7              |
| 19.                        | 02.30-02.35 | 52.9  | 66.0                                    | 52.9                        | 49.5                                    | 3.4              |
|                            | 02.35-02.40 | 49.0  | 61.3                                    | 49.0                        | 50.9                                    | -1.9             |
|                            | 02.40-02.45 | 49.9  | 53.3                                    | 49.9                        | 50.9                                    | -1.0             |
|                            | 02.45-02.50 | 51.5  | 69.0                                    | 51.5                        | 50.6                                    | 0.9              |
|                            | 02.50-02.55 | 49.7  | 51.7                                    | 49.7                        | 49.5                                    | 0.2              |
|                            | 02.55-03.00 | 50.1  | 52.6                                    | 50.1                        | 49.9                                    | 0.2              |
|                            | 03.00-03.05 | 50.6  | 53.0                                    | 50.6                        | 49.8                                    | 0.8              |
|                            | 03.05-03.10 | 50.3  | 54.1                                    | 50.3                        | 51.5                                    | -1.2             |
|                            | 03.10-03.15 | 52.0  | 60.9                                    | 52.0                        | 49.0                                    | 3.0              |
|                            | 03.15-03.20 | 50.0  | 48.8                                    | 46.8                        | 47.5                                    | -0.7             |
|                            | 03.20-03.25 | 50.7  | 48.1                                    | 50.2                        | 47.1                                    | 3.1              |
|                            | 03.25-03.30 | 50.5  | 48.0                                    | 49.9                        | 46.9                                    | 3.0              |
|                            | 03.30-03.35 | 54.7  | 47.8                                    | 56.7                        | 47.0                                    | 9.7              |
|                            | 03.35-03.40 | 52.3  | 47.3                                    | 53.6                        | 46.4                                    | 7.2              |
|                            | 03.40-03.45 | 51.9  | 47.3                                    | 53.1                        | 46.5                                    | 6.6              |
|                            | 03.45-03.50 | 52.2  | 50.8                                    | 49.6                        | 46.8                                    | 2.8              |
|                            | 03.50-03.55 | 52.3  | 53.5                                    | 52.3                        | 51.1                                    | 1.2              |
|                            | 03.55-04.00 | 50.4  | 48.1                                    | 49.5                        | 46.6                                    | 2.9              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(19/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | บริเวณพื้นที่โครงการ                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 22-23/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 20.                        | 04.00-04.05 | 51.0  | 49.6                                    | 48.4                        | 48.2                                    | 0.2              |
|                            | 04.05-04.10 | 50.4  | 48.8                                    | 48.3                        | 47.7                                    | 0.6              |
|                            | 04.10-04.15 | 50.3  | 49.3                                    | 46.4                        | 48.2                                    | -1.8             |
|                            | 04.15-04.20 | 50.6  | 48.6                                    | 49.3                        | 47.5                                    | 1.8              |
|                            | 04.20-04.25 | 49.7  | 48.8                                    | 45.4                        | 47.5                                    | -2.1             |
|                            | 04.25-04.30 | 49.4  | 52.5                                    | 49.4                        | 48.8                                    | 0.6              |
|                            | 04.30-04.35 | 49.7  | 53.8                                    | 49.7                        | 49.0                                    | 0.7              |
|                            | 04.35-04.40 | 49.5  | 49.6                                    | 49.5                        | 48.4                                    | 1.1              |
|                            | 04.40-04.45 | 49.4  | 49.5                                    | 49.4                        | 48.2                                    | 1.2              |
|                            | 04.45-04.50 | 49.0  | 65.2                                    | 49.0                        | 48.7                                    | 0.3              |
| 21.                        | 04.50-04.55 | 48.7  | 49.4                                    | 48.7                        | 47.6                                    | 1.1              |
|                            | 04.55-05.00 | 49.4  | 47.9                                    | 47.1                        | 46.9                                    | 0.2              |
|                            | 05.00-05.05 | 49.8  | 48.2                                    | 47.7                        | 46.5                                    | 1.2              |
|                            | 05.05-05.10 | 49.4  | 49.1                                    | 40.6                        | 48.2                                    | -7.6             |
|                            | 05.10-05.15 | 49.4  | 68.7                                    | 49.4                        | 48.4                                    | 1.0              |
|                            | 05.15-05.20 | 50.1  | 63.5                                    | 50.1                        | 47.2                                    | 2.9              |
|                            | 05.20-05.25 | 50.3  | 62.6                                    | 50.3                        | 46.4                                    | 3.9              |
|                            | 05.25-05.30 | 50.7  | 48.8                                    | 49.2                        | 46.5                                    | 2.7              |
|                            | 05.30-05.35 | 51.5  | 58.9                                    | 51.5                        | 47.0                                    | 4.5              |
|                            | 05.35-05.40 | 51.1  | 57.1                                    | 51.1                        | 47.0                                    | 4.1              |
| 22.                        | 05.40-05.45 | 50.1  | 50.6                                    | 50.1                        | 47.5                                    | 2.6              |
|                            | 05.45-05.50 | 50.2  | 65.1                                    | 50.2                        | 46.2                                    | 4.0              |
|                            | 05.50-05.55 | 51.1  | 60.4                                    | 51.1                        | 44.8                                    | 6.3              |
|                            | 05.55-06.00 | 51.9  | 48.7                                    | 52.1                        | 45.2                                    | 6.9              |
|                            | 06.00-07.00 | 51.0  | 61.4                                    | 51.0                        | 49.8                                    | 1.2              |
|                            | 07.00-08.00 | 50.0  | 62.3                                    | 50.0                        | 46.7                                    | 3.3              |
|                            | 08.00-09.00 | 51.1  | 62.3                                    | 51.1                        | 48.9                                    | 2.2              |
|                            |             |   |   |                             |   |                  |
|                            |             |   |   |                             |   |                  |
|                            |             |   |   |                             |   |                  |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/20-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(20/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 23-24/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 09.00-10.00 | 53.6  | 57.5                                    | 53.6                        | 50.5                                    | 3.1              |
| 2.                         | 10.00-11.00 | 52.1  | 57.0                                    | 52.1                        | 48.9                                    | 3.2              |
| 3.                         | 11.00-12.00 | 51.5  | 59.7                                    | 51.5                        | 49.2                                    | 2.3              |
| 4.                         | 12.00-13.00 | 51.9  | 52.7                                    | 51.9                        | 45.0                                    | 7.0              |
| 5.                         | 13.00-14.00 | 50.9  | 51.3                                    | 50.9                        | 43.8                                    | 7.1              |
| 6.                         | 14.00-15.00 | 50.1  | 48.7                                    | 44.4                        | 45.3                                    | -0.9             |
| 7.                         | 15.00-16.00 | 51.4  | 58.6                                    | 51.4                        | 45.4                                    | 6.0              |
| 8.                         | 16.00-17.00 | 52.8  | 48.4                                    | 50.8                        | 45.3                                    | 5.5              |
| 9.                         | 17.00-18.00 | 49.0  | 52.6                                    | 49.0                        | 44.3                                    | 4.7              |
| 10.                        | 18.00-19.00 | 50.8  | 60.1                                    | 50.8                        | 45.7                                    | 5.2              |
| 11.                        | 19.00-20.00 | 49.6  | 61.4                                    | 49.6                        | 46.1                                    | 3.5              |
| 12.                        | 20.00-21.00 | 50.5  | 61.9                                    | 50.5                        | 50.3                                    | 0.2              |
| 13.                        | 21.00-22.00 | 50.3  | 63.1                                    | 50.3                        | 51.7                                    | -1.4             |
| 14.                        | 22.00-22.05 | 50.3  | 64.1                                    | 50.3                        | 53.5                                    | -3.2             |
|                            | 22.05-22.10 | 48.0  | 65.8                                    | 48.0                        | 54.1                                    | -6.1             |
|                            | 22.10-22.15 | 48.4  | 64.0                                    | 48.4                        | 55.3                                    | -6.9             |
|                            | 22.15-22.20 | 48.5  | 62.6                                    | 48.5                        | 54.6                                    | -6.1             |
|                            | 22.20-22.25 | 48.7  | 62.0                                    | 48.7                        | 49.3                                    | -0.6             |
|                            | 22.25-22.30 | 48.4  | 67.1                                    | 48.4                        | 49.6                                    | -1.2             |
|                            | 22.30-22.35 | 48.5  | 50.6                                    | 48.5                        | 49.1                                    | -0.6             |
|                            | 22.35-22.40 | 47.9  | 49.8                                    | 47.9                        | 48.5                                    | -0.6             |
|                            | 22.40-22.45 | 47.4  | 54.0                                    | 47.4                        | 48.3                                    | -0.9             |
|                            | 22.45-22.50 | 47.3  | 49.0                                    | 47.3                        | 47.7                                    | -0.4             |
|                            | 22.50-22.55 | 47.5  | 50.2                                    | 47.5                        | 47.8                                    | -0.3             |
|                            | 22.55-23.00 | 47.6  | 50.9                                    | 47.6                        | 47.8                                    | -0.2             |
| 15.                        | 23.00-23.05 | 48.1  | 63.2                                    | 48.1                        | 49.6                                    | -1.5             |
|                            | 23.05-23.10 | 48.6  | 64.2                                    | 48.6                        | 48.9                                    | -0.3             |
|                            | 23.10-23.15 | 48.3  | 62.0                                    | 48.3                        | 49.3                                    | -1.0             |
|                            | 23.15-23.20 | 47.6  | 50.0                                    | 47.6                        | 48.6                                    | -1.0             |
|                            | 23.20-23.25 | 47.9  | 49.1                                    | 47.9                        | 47.7                                    | 0.2              |
|                            | 23.25-23.30 | 48.8  | 51.1                                    | 48.8                        | 47.9                                    | 0.9              |
|                            | 23.30-23.35 | 48.7  | 52.0                                    | 48.7                        | 48.6                                    | 0.1              |
|                            | 23.35-23.40 | 48.9  | 49.8                                    | 48.9                        | 48.4                                    | 0.5              |
|                            | 23.40-23.45 | 49.9  | 49.6                                    | 41.1                        | 48.4                                    | -7.3             |
|                            | 23.45-23.50 | 50.0  | 49.3                                    | 44.7                        | 47.5                                    | -2.8             |
|                            | 23.50-23.55 | 49.1  | 55.6                                    | 49.1                        | 53.2                                    | -4.1             |
|                            | 23.55-00.00 | 49.8  | 49.3                                    | 43.2                        | 48.3                                    | -5.1             |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited  
บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(20/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 23-24/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 16.                        | 00.00-00.05 | 49.1  | 49.4                                    | 49.1                        | 48.1                                    | 1.0              |
|                            | 00.05-00.10 | 48.5  | 49.5                                    | 48.5                        | 48.1                                    | 0.4              |
|                            | 00.10-00.15 | 48.8  | 49.2                                    | 48.8                        | 47.8                                    | 1.0              |
|                            | 00.15-00.20 | 48.5  | 67.5                                    | 48.5                        | 48.4                                    | 0.1              |
|                            | 00.20-00.25 | 48.8  | 65.4                                    | 48.8                        | 54.2                                    | -5.4             |
|                            | 00.25-00.30 | 48.4  | 58.2                                    | 48.4                        | 50.3                                    | -1.9             |
|                            | 00.30-00.35 | 47.9  | 53.2                                    | 47.9                        | 50.1                                    | -2.2             |
|                            | 00.35-00.40 | 48.0  | 56.8                                    | 48.0                        | 50.1                                    | -2.1             |
|                            | 00.40-00.45 | 47.8  | 53.2                                    | 47.8                        | 50.1                                    | -2.3             |
|                            | 00.45-00.50 | 47.8  | 53.2                                    | 47.8                        | 50.1                                    | -2.3             |
|                            | 00.50-00.55 | 48.0  | 63.4                                    | 48.0                        | 49.7                                    | -1.7             |
|                            | 00.55-01.00 | 48.6  | 56.1                                    | 48.6                        | 54.6                                    | -6.0             |
| 17.                        | 01.00-01.05 | 48.7  | 66.1                                    | 48.7                        | 48.5                                    | 0.2              |
|                            | 01.05-01.10 | 48.5  | 52.0                                    | 48.5                        | 49.6                                    | -1.1             |
|                            | 01.10-01.15 | 48.9  | 53.9                                    | 48.9                        | 49.5                                    | -0.6             |
|                            | 01.15-01.20 | 49.0  | 67.5                                    | 49.0                        | 51.4                                    | -2.4             |
|                            | 01.20-01.25 | 48.7  | 53.6                                    | 48.7                        | 51.1                                    | -2.4             |
|                            | 01.25-01.30 | 48.6  | 54.5                                    | 48.6                        | 51.8                                    | -3.2             |
|                            | 01.30-01.35 | 49.0  | 53.7                                    | 49.0                        | 51.3                                    | -2.3             |
|                            | 01.35-01.40 | 49.1  | 64.0                                    | 49.1                        | 51.5                                    | -2.4             |
|                            | 01.40-01.45 | 49.6  | 50.6                                    | 49.6                        | 49.5                                    | 0.1              |
|                            | 01.45-01.50 | 49.1  | 50.9                                    | 49.1                        | 48.6                                    | 0.5              |
|                            | 01.50-01.55 | 49.3  | 50.0                                    | 49.3                        | 49.0                                    | 0.3              |
|                            | 01.55-02.00 | 49.3  | 49.5                                    | 49.3                        | 48.3                                    | 1.0              |
| 18.                        | 02.00-02.05 | 49.5  | 49.5                                    | 49.5                        | 48.4                                    | 1.1              |
|                            | 02.05-02.10 | 49.6  | 49.8                                    | 49.6                        | 48.4                                    | 1.2              |
|                            | 02.10-02.15 | 49.8  | 49.9                                    | 49.8                        | 48.5                                    | 1.3              |
|                            | 02.15-02.20 | 50.1  | 51.0                                    | 50.1                        | 49.5                                    | 0.6              |
|                            | 02.20-02.25 | 49.7  | 51.2                                    | 49.7                        | 49.5                                    | 0.2              |
|                            | 02.25-02.30 | 49.4  | 66.3                                    | 49.4                        | 48.2                                    | 1.2              |
|                            | 02.30-02.35 | 49.3  | 66.0                                    | 49.3                        | 49.5                                    | -0.2             |
|                            | 02.35-02.40 | 49.5  | 61.3                                    | 49.5                        | 50.9                                    | -1.4             |
|                            | 02.40-02.45 | 49.3  | 53.3                                    | 49.3                        | 50.9                                    | -1.6             |
|                            | 02.45-02.50 | 49.0  | 69.0                                    | 49.0                        | 50.6                                    | -1.6             |
|                            | 02.50-02.55 | 49.3  | 51.7                                    | 49.3                        | 49.5                                    | -0.2             |
|                            | 02.55-03.00 | 49.2  | 52.6                                    | 49.2                        | 49.9                                    | -0.7             |
| 19.                        | 03.00-03.05 | 48.9  | 53.0                                    | 48.9                        | 49.8                                    | -0.9             |
|                            | 03.05-03.10 | 48.8  | 54.1                                    | 48.8                        | 51.5                                    | -2.7             |
|                            | 03.10-03.15 | 49.0  | 60.9                                    | 49.0                        | 49.0                                    | 0.0              |
|                            | 03.15-03.20 | 49.4  | 48.8                                    | 43.5                        | 47.5                                    | -4.0             |
|                            | 03.20-03.25 | 49.7  | 48.1                                    | 47.6                        | 47.1                                    | 0.5              |
|                            | 03.25-03.30 | 49.8  | 48.0                                    | 48.1                        | 46.9                                    | 1.2              |
|                            | 03.30-03.35 | 49.9  | 47.8                                    | 48.7                        | 47.0                                    | 1.7              |
|                            | 03.35-03.40 | 49.5  | 47.3                                    | 48.5                        | 46.4                                    | 2.1              |
|                            | 03.40-03.45 | 49.5  | 47.3                                    | 48.5                        | 46.5                                    | 2.0              |
|                            | 03.45-03.50 | 49.2  | 50.8                                    | 49.2                        | 46.8                                    | 2.4              |
|                            | 03.50-03.55 | 49.3  | 53.5                                    | 49.3                        | 51.1                                    | -1.8             |
|                            | 03.55-04.00 | 48.7  | 48.1                                    | 42.8                        | 46.6                                    | -3.8             |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(20/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 23-24/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 20.                        | 04.00-04.05 | 48.9  | 49.6                                    | 48.9                        | 48.2                                    | 0.7              |
|                            | 04.05-04.10 | 49.1  | 48.8                                    | 40.3                        | 47.7                                    | -7.4             |
|                            | 04.10-04.15 | 49.0  | 49.3                                    | 49.0                        | 48.2                                    | 0.8              |
|                            | 04.15-04.20 | 49.2  | 48.6                                    | 43.3                        | 47.5                                    | -4.2             |
|                            | 04.20-04.25 | 48.8  | 48.8                                    | 48.8                        | 47.5                                    | 1.3              |
|                            | 04.25-04.30 | 49.0  | 52.5                                    | 49.0                        | 48.8                                    | 0.2              |
|                            | 04.30-04.35 | 49.3  | 53.8                                    | 49.3                        | 49.0                                    | 0.3              |
|                            | 04.35-04.40 | 49.6  | 49.6                                    | 49.6                        | 48.4                                    | 1.2              |
|                            | 04.40-04.45 | 49.3  | 49.5                                    | 49.3                        | 48.2                                    | 1.1              |
|                            | 04.45-04.50 | 49.4  | 65.2                                    | 49.4                        | 48.7                                    | 0.7              |
|                            | 04.50-04.55 | 49.3  | 49.4                                    | 49.3                        | 47.6                                    | 1.7              |
|                            | 04.55-05.00 | 49.6  | 47.9                                    | 47.7                        | 46.9                                    | 0.8              |
| 21.                        | 05.00-05.05 | 49.4  | 48.2                                    | 46.2                        | 46.5                                    | -0.3             |
|                            | 05.05-05.10 | 49.9  | 49.1                                    | 45.2                        | 48.2                                    | -3.0             |
|                            | 05.10-05.15 | 49.6  | 68.7                                    | 49.6                        | 48.4                                    | 1.2              |
|                            | 05.15-05.20 | 49.3  | 63.5                                    | 49.3                        | 47.2                                    | 2.1              |
|                            | 05.20-05.25 | 49.5  | 62.6                                    | 49.5                        | 46.4                                    | 3.1              |
|                            | 05.25-05.30 | 49.1  | 48.8                                    | 40.3                        | 46.5                                    | -6.2             |
|                            | 05.30-05.35 | 49.7  | 58.9                                    | 49.7                        | 47.0                                    | 2.7              |
|                            | 05.35-05.40 | 49.3  | 57.1                                    | 49.3                        | 47.0                                    | 2.3              |
|                            | 05.40-05.45 | 49.5  | 50.6                                    | 49.5                        | 47.5                                    | 2.0              |
|                            | 05.45-05.50 | 49.6  | 65.1                                    | 49.6                        | 46.2                                    | 3.4              |
|                            | 05.50-05.55 | 49.7  | 60.4                                    | 49.7                        | 44.8                                    | 4.9              |
|                            | 05.55-06.00 | 49.4  | 48.7                                    | 44.1                        | 45.2                                    | -1.1             |
| 22.                        | 06.00-07.00 | 49.2  | 61.4                                    | 49.2                        | 49.8                                    | -0.6             |
| 23.                        | 07.00-08.00 | 49.3  | 62.3                                    | 49.3                        | 46.7                                    | 2.6              |
| 24.                        | 08.00-09.00 | 51.9  | 62.3                                    | 51.9                        | 48.9                                    | 3.0              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด Report No. : 2023/21-21  
Project : โครงการ โรงไฟฟ้าชีวมวล สาขา 2 Report Date : January 10, 2024  
Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170 Sampling Date : September 18-25  
Contact : Tel. (056) 798 007-8 Fax. (056) 798 017 & May 18-19, 2023  
Job No. : S660153/Dec/1 Type of Sample : เสียงรบกวน

(21/1-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | บริเวณพื้นที่โครงการ                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 24-25/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 1.                         | 09.00-10.00 | 50.7  | 57.5                                    | 50.7                        | 50.5                                    | 0.2              |
| 2.                         | 10.00-11.00 | 50.0  | 57.0                                    | 50.0                        | 48.9                                    | 1.1              |
| 3.                         | 11.00-12.00 | 51.6  | 59.7                                    | 51.6                        | 49.2                                    | 2.4              |
| 4.                         | 12.00-13.00 | 52.3  | 52.7                                    | 52.3                        | 45.0                                    | 7.3              |
| 5.                         | 13.00-14.00 | 51.3  | 51.3                                    | 51.3                        | 43.8                                    | 7.5              |
| 6.                         | 14.00-15.00 | 49.3  | 48.7                                    | 40.3                        | 45.3                                    | -5.0             |
| 7.                         | 15.00-16.00 | 48.3  | 58.6                                    | 48.3                        | 45.4                                    | 2.9              |
| 8.                         | 16.00-17.00 | 51.4  | 48.4                                    | 48.3                        | 45.3                                    | 3.0              |
| 9.                         | 17.00-18.00 | 54.4  | 52.6                                    | 49.6                        | 44.3                                    | 5.3              |
| 10.                        | 18.00-19.00 | 49.0  | 60.1                                    | 49.0                        | 45.7                                    | 3.3              |
| 11.                        | 19.00-20.00 | 49.4  | 61.4                                    | 49.4                        | 46.1                                    | 3.3              |
| 12.                        | 20.00-21.00 | 51.8  | 61.9                                    | 51.8                        | 50.3                                    | 1.6              |
| 13.                        | 21.00-22.00 | 50.0  | 63.1                                    | 50.0                        | 51.7                                    | -1.7             |
| 14.                        | 22.00-22.05 | 47.5  | 64.1                                    | 47.5                        | 53.5                                    | -6.0             |
|                            | 22.05-22.10 | 47.2  | 65.8                                    | 47.2                        | 54.1                                    | -6.9             |
|                            | 22.10-22.15 | 47.7  | 64.0                                    | 47.7                        | 55.3                                    | -7.6             |
|                            | 22.15-22.20 | 48.2  | 62.6                                    | 48.2                        | 54.6                                    | -6.4             |
|                            | 22.20-22.25 | 48.3  | 62.0                                    | 48.3                        | 49.3                                    | -1.0             |
|                            | 22.25-22.30 | 48.0  | 67.1                                    | 48.0                        | 49.6                                    | -1.6             |
|                            | 22.30-22.35 | 48.8  | 50.6                                    | 48.8                        | 49.1                                    | -0.3             |
|                            | 22.35-22.40 | 49.3  | 49.8                                    | 49.3                        | 48.5                                    | 0.8              |
|                            | 22.40-22.45 | 50.6  | 54.0                                    | 50.6                        | 48.3                                    | 2.3              |
|                            | 22.45-22.50 | 50.0  | 49.0                                    | 46.1                        | 47.7                                    | -1.6             |
|                            | 22.50-22.55 | 50.2  | 50.2                                    | 50.2                        | 47.8                                    | 2.4              |
|                            | 22.55-23.00 | 50.2  | 50.9                                    | 50.2                        | 47.8                                    | 2.4              |
| 15.                        | 23.00-23.05 | 49.1  | 63.2                                    | 49.1                        | 49.6                                    | -0.5             |
|                            | 23.05-23.10 | 48.9  | 64.2                                    | 48.9                        | 48.9                                    | 0.0              |
|                            | 23.10-23.15 | 50.0  | 62.0                                    | 50.0                        | 49.3                                    | 0.7              |
|                            | 23.15-23.20 | 50.9  | 50.0                                    | 46.6                        | 48.6                                    | -2.0             |
|                            | 23.20-23.25 | 51.4  | 49.1                                    | 50.5                        | 47.7                                    | 2.8              |
|                            | 23.25-23.30 | 51.2  | 51.1                                    | 37.8                        | 47.9                                    | -10.1            |
|                            | 23.30-23.35 | 50.8  | 52.0                                    | 50.8                        | 48.6                                    | 2.2              |
|                            | 23.35-23.40 | 50.3  | 49.8                                    | 43.7                        | 48.4                                    | -4.7             |
|                            | 23.40-23.45 | 50.1  | 49.6                                    | 43.5                        | 48.4                                    | -4.9             |
|                            | 23.45-23.50 | 50.0  | 49.3                                    | 44.7                        | 47.5                                    | -2.8             |
|                            | 23.50-23.55 | 49.5  | 55.6                                    | 49.5                        | 53.2                                    | -3.7             |
|                            | 23.55-00.00 | 48.6  | 49.3                                    | 48.6                        | 48.3                                    | 0.3              |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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## TEST REPORT

(21/2-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | ริมรั้วพื้นที่โครงการ                             |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 24-25/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 16.                        | 00.00-00.05 | 49.0  | 49.4                                    | 49.0                        | 48.1                                    | 0.9              |
|                            | 00.05-00.10 | 49.1  | 49.5                                    | 49.1                        | 48.1                                    | 1.0              |
|                            | 00.10-00.15 | 48.4  | 49.2                                    | 48.4                        | 47.8                                    | 0.6              |
|                            | 00.15-00.20 | 48.4  | 67.5                                    | 48.4                        | 48.4                                    | 0.0              |
|                            | 00.20-00.25 | 49.1  | 65.4                                    | 49.1                        | 54.2                                    | -5.1             |
|                            | 00.25-00.30 | 48.4  | 58.2                                    | 48.4                        | 50.3                                    | -1.9             |
|                            | 00.30-00.35 | 48.4  | 53.2                                    | 48.4                        | 50.1                                    | -1.7             |
|                            | 00.35-00.40 | 48.4  | 56.8                                    | 48.4                        | 50.1                                    | -1.7             |
|                            | 00.40-00.45 | 48.4  | 53.2                                    | 48.4                        | 50.1                                    | -1.7             |
|                            | 00.45-00.50 | 49.8  | 53.2                                    | 49.8                        | 50.1                                    | -0.3             |
|                            | 00.50-00.55 | 49.1  | 63.4                                    | 49.1                        | 49.7                                    | -0.6             |
|                            | 00.55-01.00 | 48.5  | 56.1                                    | 48.5                        | 54.6                                    | -6.1             |
| 17.                        | 01.00-01.05 | 48.1  | 66.1                                    | 48.1                        | 48.5                                    | -0.4             |
|                            | 01.05-01.10 | 48.1  | 52.0                                    | 48.1                        | 49.6                                    | -1.5             |
|                            | 01.10-01.15 | 48.7  | 53.9                                    | 48.7                        | 49.5                                    | -0.8             |
|                            | 01.15-01.20 | 48.6  | 67.5                                    | 48.6                        | 51.4                                    | -2.8             |
|                            | 01.20-01.25 | 48.0  | 53.6                                    | 48.0                        | 51.1                                    | -3.1             |
|                            | 01.25-01.30 | 48.0  | 54.5                                    | 48.0                        | 51.8                                    | -3.8             |
|                            | 01.30-01.35 | 47.6  | 53.7                                    | 47.6                        | 51.3                                    | -3.7             |
|                            | 01.35-01.40 | 48.3  | 64.0                                    | 48.3                        | 51.5                                    | -3.2             |
|                            | 01.40-01.45 | 48.3  | 50.6                                    | 48.3                        | 49.5                                    | -1.2             |
|                            | 01.45-01.50 | 49.0  | 50.9                                    | 49.0                        | 48.6                                    | 0.4              |
|                            | 01.50-01.55 | 48.6  | 50.0                                    | 48.6                        | 49.0                                    | -0.4             |
|                            | 01.55-02.00 | 48.7  | 49.5                                    | 48.7                        | 48.3                                    | 0.4              |
| 18.                        | 02.00-02.05 | 48.4  | 49.5                                    | 48.4                        | 48.4                                    | 0.0              |
|                            | 02.05-02.10 | 47.6  | 49.8                                    | 47.6                        | 48.4                                    | -0.8             |
|                            | 02.10-02.15 | 47.7  | 49.9                                    | 47.7                        | 48.5                                    | -0.8             |
|                            | 02.15-02.20 | 48.7  | 51.0                                    | 48.7                        | 49.5                                    | -0.8             |
|                            | 02.20-02.25 | 49.5  | 51.2                                    | 49.5                        | 49.5                                    | 0.0              |
|                            | 02.25-02.30 | 49.4  | 66.3                                    | 49.4                        | 48.2                                    | 1.2              |
|                            | 02.30-02.35 | 48.8  | 66.0                                    | 48.8                        | 49.5                                    | -0.7             |
|                            | 02.35-02.40 | 49.0  | 61.3                                    | 49.0                        | 50.9                                    | -1.9             |
|                            | 02.40-02.45 | 49.1  | 53.3                                    | 49.1                        | 50.9                                    | -1.8             |
|                            | 02.45-02.50 | 49.7  | 69.0                                    | 49.7                        | 50.6                                    | -0.9             |
|                            | 02.50-02.55 | 49.2  | 51.7                                    | 49.2                        | 49.5                                    | -0.3             |
|                            | 02.55-03.00 | 49.5  | 52.6                                    | 49.5                        | 49.9                                    | -0.4             |
| 19.                        | 03.00-03.05 | 49.5  | 53.0                                    | 49.5                        | 49.8                                    | -0.3             |
|                            | 03.05-03.10 | 48.7  | 54.1                                    | 48.7                        | 51.5                                    | -2.8             |
|                            | 03.10-03.15 | 48.5  | 60.9                                    | 48.5                        | 49.0                                    | -0.5             |
|                            | 03.15-03.20 | 48.8  | 48.8                                    | 48.8                        | 47.5                                    | 1.3              |
|                            | 03.20-03.25 | 49.1  | 48.1                                    | 45.2                        | 47.1                                    | -1.9             |
|                            | 03.25-03.30 | 49.2  | 48.0                                    | 46.0                        | 46.9                                    | -0.9             |
|                            | 03.30-03.35 | 49.2  | 47.8                                    | 46.6                        | 47.0                                    | -0.4             |
|                            | 03.35-03.40 | 49.2  | 47.3                                    | 47.7                        | 46.4                                    | 1.3              |
|                            | 03.40-03.45 | 49.0  | 47.3                                    | 47.1                        | 46.5                                    | 0.6              |
|                            | 03.45-03.50 | 48.9  | 50.8                                    | 48.9                        | 46.8                                    | 2.1              |
|                            | 03.50-03.55 | 48.8  | 53.5                                    | 48.8                        | 51.1                                    | -2.3             |
|                            | 03.55-04.00 | 48.9  | 48.1                                    | 44.2                        | 46.6                                    | -2.4             |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

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Thai Environmental Technic Limited  
บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

(21/3-3)

| Item                       | Time        | Result (dB(A))                                    |   |                             |   |                  |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
|                            |             | บริเวณพื้นที่โครงการ                              |   |                             |   |                  |
|                            |             | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Leq) | ระดับเสียงขณะ<br>ไม่มีการรบกวน<br>(Leq) | ระดับเสียงขณะ<br>มีการรบกวน | ระดับเสียงพื้นฐาน<br>(L <sub>90</sub> ) | ค่าระดับการรบกวน |
|                            |             | 24-25/09/23                                       | 18-19/05/23                             | -                           | 18-19/05/23                             | -                |
| 20.                        | 04.00-04.05 | 48.8  | 49.6                                    | 48.8                        | 48.2                                    | 0.6              |
|                            | 04.05-04.10 | 49.0  | 48.8                                    | 38.5                        | 47.7                                    | -9.2             |
|                            | 04.10-04.15 | 49.3  | 49.3                                    | 49.3                        | 48.2                                    | 1.1              |
|                            | 04.15-04.20 | 48.8  | 48.6                                    | 38.3                        | 47.5                                    | -9.2             |
|                            | 04.20-04.25 | 48.6  | 48.8                                    | 48.6                        | 47.5                                    | 1.1              |
|                            | 04.25-04.30 | 48.5  | 52.5                                    | 48.5                        | 48.8                                    | -0.3             |
|                            | 04.30-04.35 | 49.0  | 53.8                                    | 49.0                        | 49.0                                    | 0.0              |
|                            | 04.35-04.40 | 48.9  | 49.6                                    | 48.9                        | 48.4                                    | 0.5              |
|                            | 04.40-04.45 | 48.5  | 49.5                                    | 48.5                        | 48.2                                    | 0.3              |
|                            | 04.45-04.50 | 48.3  | 65.2                                    | 48.3                        | 48.7                                    | -0.4             |
| 21.                        | 04.50-04.55 | 48.5  | 49.4                                    | 48.5                        | 47.6                                    | 0.9              |
|                            | 04.55-05.00 | 48.7  | 47.9                                    | 44.0                        | 46.9                                    | -2.9             |
|                            | 05.00-05.05 | 48.5  | 48.2                                    | 39.7                        | 46.5                                    | -6.8             |
|                            | 05.05-05.10 | 48.7  | 49.1                                    | 48.7                        | 48.2                                    | 0.5              |
|                            | 05.10-05.15 | 48.4  | 68.7                                    | 48.4                        | 48.4                                    | 0.0              |
|                            | 05.15-05.20 | 47.6  | 63.5                                    | 47.6                        | 47.2                                    | 0.4              |
|                            | 05.20-05.25 | 49.1  | 62.6                                    | 49.1                        | 46.4                                    | 2.7              |
|                            | 05.25-05.30 | 48.8  | 48.8                                    | 48.8                        | 46.5                                    | 2.3              |
|                            | 05.30-05.35 | 48.8  | 58.9                                    | 48.8                        | 47.0                                    | 1.8              |
|                            | 05.35-05.40 | 48.9  | 57.1                                    | 48.9                        | 47.0                                    | 1.9              |
| 22.                        | 05.40-05.45 | 48.9  | 50.6                                    | 48.9                        | 47.5                                    | 1.4              |
|                            | 05.45-05.50 | 49.0  | 65.1                                    | 49.0                        | 46.2                                    | 2.8              |
|                            | 05.50-05.55 | 48.9  | 60.4                                    | 48.9                        | 44.8                                    | 4.1              |
|                            | 05.55-06.00 | 49.3  | 48.7                                    | 43.4                        | 45.2                                    | -1.8             |
|                            | 06.00-07.00 | 47.9  | 61.4                                    | 47.9                        | 49.8                                    | -1.9             |
|                            | 07.00-08.00 | 48.9  | 62.3                                    | 48.9                        | 46.7                                    | 2.2              |
|                            | 08.00-09.00 | 50.5  | 62.3                                    | 50.5                        | 48.9                                    | 1.6              |
|                            |             |   |   |                             |   |                  |
|                            |             |   |   |                             |   |                  |
|                            |             |   |   |                             |   |                  |
|                            |             |   |   |                             |   |                  |
| Standard <sup>(1)(2)</sup> |             |   |   |                             |   | 10               |

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 29 (2007) (B.E. 2550)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul  
General Manager

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## TEST REPORT

**Analysis No.** : R23-2147  
**Received Date** : 10/07/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2307-WW0183 = yellow turbid/high black sediment

**Report Date** : 21/07/23  
**Analysis Date** : 09-17/07/23  
**Job No.** : S660153/July  
**Sampling Date** : 09/07/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------------|
|      |                         |            |   | 2307-WW0183            |          |               |
|      |                         |            |   | บ่อพักน้ำทิ้งหมายเลข 1 |          |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 29.8                   | 40       | 09/07/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.34                   | 5.5-9.0  | 09/07/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 4.1                    | 50       | 17/07/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 649                    | 3,000    | 13/07/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                      | 20       | 12-17/07/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 46                     | 120      | 11/07/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8                    | 5        | 12/07/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | $7.0 \times 10^3$      | -        | 11-14/07/23   |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 1 = 47P 0726673 UTM 1710600  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory

21/07/23



Approved by

Mrs. Pornpip Pethshee  
Laboratory Manager

21/07/23

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## TEST REPORT

**Analysis No.** : R23-2147/DIW  
**Received Date** : 10/07/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2307-WW0183 = yellow turbid/high black sediment

**Report Date** : 21/07/23  
**Analysis Date** : 09-17/07/23  
**Job No.** : S660153/July  
**Sampling Date** : 09/07/23  
**Sampling By** : Mr. Suriyapong Yongyut  
**Registration No.** : ว-236-จ-0008  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                   | Standard | Analysis Date |
|------|--------------|------|---|--------------------------|----------|---------------|
|      |              |      |   | 2307-WW0183              |          |               |
|      |              |      |   | ข้อพิพาททั้งหมดหมายเลข 1 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 29.8                     | 40       | 09/07/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.34                     | 5.5-9.0  | 09/07/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 4.1                      | 50       | 17/07/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 649                      | 3,000    | 13/07/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                        | 20       | 12-17/07/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 46                       | 120      | 11/07/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8                      | 5        | 12/07/23      |

**Remarks** : ข้อพิพาททั้งหมดหมายเลข 1 = 47P 0726673 UTM 1710600

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

ว-236-ท-0002

21.07.23



Approved by

Mrs. Pornip Pethshee

Laboratory Manager

ว-236-ท-0003

21.07.23

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Thai Environmental Technic Limited

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 2 of 6

## TEST REPORT

**Analysis No.** : R23-2147  
**Received Date** : 10/07/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2307-WW0184 = yellow turbid/high black sediment

**Report Date** : 21/07/23  
**Analysis Date** : 09-17/07/23  
**Job No.** : S660153/July  
**Sampling Date** : 09/07/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------------|
|      |                         |            |   | 2307-WW0184            |          |               |
|      |                         |            |   | บ่อพักน้ำทิ้งหมายเลข 2 |          |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 27.5                   | 40       | 09/07/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.35                   | 5.5-9.0  | 09/07/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 3.9                    | 50       | 17/07/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 819                    | 3,000    | 13/07/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                      | 20       | 12-17/07/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 35                     | 120      | 11/07/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8                    | 5        | 12/07/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | $1.3 \times 10^4$      | -        | 11-14/07/23   |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 2 = 47P 0726676 UTM 1710611

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

21/07/23



Approved by

Mrs. Pornip Pethshee

Laboratory Manager

21/07/23

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

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Page 2 of 4

## TEST REPORT

**Analysis No.** : R23-2147/DIW  
**Received Date** : 10/07/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2307-WW0184 = yellow turbid/high black sediment

**Report Date** : 21/07/23  
**Analysis Date** : 09-17/07/23  
**Job No.** : S660153/July  
**Sampling Date** : 09/07/23  
**Sampling By** : Mr. Suriyapong Yongyut  
**Registration No.** : จ-236-จ-0008  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                | Standard | Analysis Date |
|------|--------------|------|---|-----------------------|----------|---------------|
|      |              |      |   | 2307-WW0184           |          |               |
|      |              |      |   | ข้อพิพาททั้งหมายเลข 2 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 27.5                  | 40       | 09/07/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.35                  | 5.5-9.0  | 09/07/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 3.9                   | 50       | 17/07/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 819                   | 3,000    | 13/07/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                     | 20       | 12-17/07/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 35                    | 120      | 11/07/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8                   | 5        | 12/07/23      |

**Remarks** : ข้อพิพาททั้งหมายเลข 2 = 47P 0726676 UTM 1710611

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

จ-236-ก-0002

21/07/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

จ-236-ก-0003

21/07/23

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## TEST REPORT

**Analysis No.** : R23-2147  
**Received Date** : 10/07/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2307-WW0185 = yellow turbid/high black sediment

**Report Date** : 21/07/23  
**Analysis Date** : 09-17/07/23  
**Job No.** : S660153/July  
**Sampling Date** : 09/07/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------------|
|      |                         |            |   | 2307-WW0185            |          |               |
|      |                         |            |   | บ่อพักน้ำทิ้งหมายเลข 3 |          |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 29.2                   | 40       | 09/07/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.49                   | 5.5-9.0  | 09/07/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 3.0                    | 50       | 17/07/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 937                    | 3,000    | 13/07/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                      | 20       | 12-17/07/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 44                     | 120      | 11/07/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.7                    | 5        | 12/07/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 5.4 x 10 <sup>4</sup>  | -        | 11-14/07/23   |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 3 = 47P 0726427 UTM 1710290  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by   
Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
21. 07. 23

Approved by   
Mrs. Pomtip Pethshee  
Laboratory Manager  
21. 07. 23



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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

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Page 3 of 4

## TEST REPORT

**Analysis No.** : R23-2147/DIW  
**Received Date** : 10/07/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
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 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2307-WW0185 = yellow turbid/high black sediment

**Report Date** : 21/07/23  
**Analysis Date** : 09-17/07/23  
**Job No.** : S660153/July  
**Sampling Date** : 09/07/23  
**Sampling By** : Mr. Suriyapong Yongyut  
**Registration No.** : ว-236-จ-0008  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date |
|------|--------------|------|---|------------------------|----------|---------------|
|      |              |      |   | 2307-WW0185            |          |               |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 3 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 29.2                   | 40       | 09/07/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.49                   | 5.5-9.0  | 09/07/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 3.0                    | 50       | 17/07/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 937                    | 3,000    | 13/07/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                      | 20       | 12-17/07/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 44                     | 120      | 11/07/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.7                    | 5        | 12/07/23      |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 3 = 47P 0726427 UTM 1710290

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

ว-236-จ-0002

21/07/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

ว-236-จ-0003

21/07/23

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## TEST REPORT

**Analysis No.** : R23-2147  
**Received Date** : 10/07/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2307-WW0186 = yellow turbid/high black sediment

**Report Date** : 21/07/23  
**Analysis Date** : 09-17/07/23  
**Job No.** : S660153/July  
**Sampling Date** : 09/07/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result               | Standard | Analysis Date |
|------|-------------------------|------------|---|----------------------|----------|---------------|
|      |                         |            |   | 2307-WW0186          |          |               |
|      |                         |            |   | ข้อพิพาททั้งหมดเลข 4 |          |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 29.0                 | 40       | 09/07/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.64                 | 5.5-9.0  | 09/07/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 6.0                  | 50       | 17/07/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 889                  | 3,000    | 13/07/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                    | 20       | 12-17/07/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 31                   | 120      | 11/07/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                  | 5        | 12/07/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | $2.8 \times 10^4$    | -        | 11-14/07/23   |

**Remarks** : ข้อพิพาททั้งหมดเลข 4 = 47P 0726426 UTM 1710298

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

21.07.23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

21.07.23

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## TEST REPORT

**Analysis No.** : R23-2147/DIW  
**Received Date** : 10/07/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2307-WW0186 = yellow turbid/high black sediment

**Report Date** : 21/07/23  
**Analysis Date** : 09-17/07/23  
**Job No.** : S660153/July  
**Sampling Date** : 09/07/23  
**Sampling By** : Mr. Suriyapong Yongyut  
**Registration No.** : ว-236-จ-0008  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date |
|------|--------------|------|---|------------------------|----------|---------------|
|      |              |      |   | 2307-WW0186            |          |               |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 4 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 29.0                   | 40       | 09/07/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.64                   | 5.5-9.0  | 09/07/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 6.0                    | 50       | 17/07/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 889                    | 3,000    | 13/07/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                      | 20       | 12-17/07/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 31                     | 120      | 11/07/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 12/07/23      |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 4 = 47P 0726426 UTM 1710298

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

ว-236-จ-0002

21/07/23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

ว-236-จ-0003

21/07/23

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## TEST REPORT

**Analysis No.** : R23-2506  
**Received Date** : 10/08/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2308-WW0286 = yellow turbid/high yellow sediment

**Report Date** : 22/08/23  
**Analysis Date** : 09-16/08/23  
**Job No.** : S660153/Aug  
**Sampling Date** : 09/08/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result               | Standard | Analysis Date |
|------|-------------------------|------------|---|----------------------|----------|---------------|
|      |                         |            |   | 2308-WW0286          |          |               |
|      |                         |            |   | ข้อพิพาททั้งหมดเลข 1 |          |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 28.6                 | 40       | 09/08/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.16                 | 5.5-9.0  | 09/08/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 2.8                  | 50       | 15/08/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 736                  | 3,000    | 16/08/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                    | 20       | 10-15/08/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 27                   | 120      | 15/08/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                  | 5        | 11/08/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | $3.5 \times 10^4$    | -        | 11-15/08/23   |

**Remarks** : ข้อพิพาททั้งหมดเลข 1 = 47P 0726673 UTM 1710600  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

10/09/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

22/08/23

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## TEST REPORT

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For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2308-WW0286 = yellow turbid/high yellow sediment

**Report Date** : 22/08/23  
**Analysis Date** : 09-16/08/23  
**Job No.** : S660153/Aug  
**Sampling Date** : 09/08/23  
**Sampling By** : Mr. Suriyapong Yongyut  
**Registration No.** : ๖-236-จ-0008  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                   | Standard | Analysis Date |
|------|--------------|------|---|--------------------------|----------|---------------|
|      |              |      |   | 2308-WW0286              |          |               |
|      |              |      |   | ข้อพิพาททั้งหมดหมายเลข 1 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 28.6                     | 40       | 09/08/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.16                     | 5.5-9.0  | 09/08/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 2.8                      | 50       | 15/08/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 736                      | 3,000    | 16/08/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                        | 20       | 10-15/08/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 27                       | 120      | 15/08/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                      | 5        | 11/08/23      |

**Remarks** : ข้อพิพาททั้งหมดหมายเลข 1 = 47P 0726673 UTM 1710600  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by   
Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
๖-236-จ-0002  
22/08/23

Approved by   
Mrs. Pomtip Pethshee  
Laboratory Manager  
๖-236-จ-0003  
22/08/23



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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 2 of 6

## TEST REPORT

**Analysis No.** : R23-2506  
**Received Date** : 10/08/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2308-WW0287 = yellow turbid/high yellow sediment

**Report Date** : 22/08/23  
**Analysis Date** : 09-16/08/23  
**Job No.** : S660153/Aug  
**Sampling Date** : 09/08/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------------|
|      |                         |            |   | 2308-WW0287            |          |               |
|      |                         |            |   | บ่อพักน้ำทิ้งหมายเลข 2 |          |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 28.8                   | 40       | 09/08/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.17                   | 5.5-9.0  | 09/08/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 2.9                    | 50       | 15/08/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 706                    | 3,000    | 16/08/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 4                      | 20       | 10-15/08/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 30                     | 120      | 15/08/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8                    | 5        | 11/08/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 1.4 x 10 <sup>4</sup>  | -        | 11-15/08/23   |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 2 = 47P 0726676 UTM 1710611

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory

22/08/23



Approved by

Mrs. Pornip Pethshee  
Laboratory Manager

22/08/23

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## TEST REPORT

**Analysis No.** : R23-2506/DIW  
**Received Date** : 10/08/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2308-WW0287 = yellow turbid/high yellow sediment

**Report Date** : 22/08/23  
**Analysis Date** : 09-16/08/23  
**Job No.** : S660153/Aug  
**Sampling Date** : 09/08/23  
**Sampling By** : Mr. Suriyapong Yongyut  
**Registration No.** : ๖-236-๖-0008  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date |
|------|--------------|------|---|------------------------|----------|---------------|
|      |              |      |   | 2308-WW0287            |          |               |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 2 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 28.8                   | 40       | 09/08/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.17                   | 5.5-9.0  | 09/08/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 2.9                    | 50       | 15/08/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 706                    | 3,000    | 16/08/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 4                      | 20       | 10-15/08/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 30                     | 120      | 15/08/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8                    | 5        | 11/08/23      |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 2 = 47P 0726676 UTM 1710611  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

๖-236-๖-0002

๑๑/๐๘/๒๓



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

๖-236-๖-0003

๑๑/๐๘/๒๓

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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Page 3 of 6

## TEST REPORT

**Analysis No.** : R23-2506  
**Received Date** : 10/08/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2308-WW0288 = yellow turbid/high yellow sediment

**Report Date** : 22/08/23  
**Analysis Date** : 09-16/08/23  
**Job No.** : S660153/Aug  
**Sampling Date** : 09/08/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------------|
|      |                         |            |   | 2308-WW0288            |          |               |
|      |                         |            |   | บ่อพักน้ำทิ้งหมายเลข 3 |          |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 28.1                   | 40       | 09/08/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.19                   | 5.5-9.0  | 09/08/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                  | 50       | 15/08/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 938                    | 3,000    | 16/08/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                      | 20       | 10-15/08/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 28                     | 120      | 15/08/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 11/08/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 1.1 x 10 <sup>4</sup>  | -        | 11-15/08/23   |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 3 = 47P 0726427 UTM 1710290

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

22/08/23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

22/08/23

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## TEST REPORT

**Analysis No.** : R23-2506/DIW  
**Received Date** : 10/08/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2308-WW0288 = yellow turbid/high yellow sediment

**Report Date** : 22/08/23  
**Analysis Date** : 09-16/08/23  
**Job No.** : S660153/Aug  
**Sampling Date** : 09/08/23  
**Sampling By** : Mr. Suriyapong Yongyut  
**Registration No.** : ว-236-จ-0008  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                | Standard | Analysis Date |
|------|--------------|------|---|-----------------------|----------|---------------|
|      |              |      |   | 2308-WW0288           |          |               |
|      |              |      |   | ข้อพิพาททั้งหมายเลข 3 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 28.1                  | 40       | 09/08/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.19                  | 5.5-9.0  | 09/08/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                 | 50       | 15/08/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 938                   | 3,000    | 16/08/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                     | 20       | 10-15/08/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 28                    | 120      | 15/08/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                   | 5        | 11/08/23      |

**Remarks** : ข้อพิพาททั้งหมายเลข 3 = 47P 0726427 UTM 1710290  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory

ว-236-จ-0002

10/08/23



Approved by

Mrs. Pomtip Pethshee  
Laboratory Manager

ว-236-จ-0003

10/08/23

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## TEST REPORT

**Analysis No.** : R23-2506  
**Received Date** : 10/08/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2308-WW0289 = yellow turbid/high yellow sediment

**Report Date** : 22/08/23  
**Analysis Date** : 09-16/08/23  
**Job No.** : S660153/Aug  
**Sampling Date** : 09/08/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------------|
|      |                         |            |   | 2308-WW0289            |          |               |
|      |                         |            |   | บ่อพักน้ำทิ้งหมายเลข 4 |          |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 28.6                   | 40       | 09/08/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.34                   | 5.5-9.0  | 09/08/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                  | 50       | 15/08/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 934                    | 3,000    | 16/08/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 5                      | 20       | 10-15/08/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 42                     | 120      | 15/08/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 11/08/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 3.3 x 10 <sup>3</sup>  | -        | 11-15/08/23   |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 4 = 47P 0726426 UTM 1710298

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareut Prachumdaeng

Chief of Laboratory

21/08/23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

20/08/23

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## TEST REPORT

**Analysis No.** : R23-2506/DIW  
**Received Date** : 10/08/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
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โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2308-WW0289 = yellow turbid/high yellow sediment

**Report Date** : 22/08/23  
**Analysis Date** : 09-16/08/23  
**Job No.** : S660153/Aug  
**Sampling Date** : 09/08/23  
**Sampling By** : Mr. Suriyapong Yongyut  
**Registration No.** : ๖-236-จ-0008  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date |
|------|--------------|------|---|------------------------|----------|---------------|
|      |              |      |   | 2308-WW0289            |          |               |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 4 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 28.6                   | 40       | 09/08/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.34                   | 5.5-9.0  | 09/08/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                  | 50       | 15/08/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 934                    | 3,000    | 16/08/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 5                      | 20       | 10-15/08/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 42                     | 120      | 15/08/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 11/08/23      |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 4 = 47P 0726426 UTM 1710298  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

๖-236-จ-0002

10/08/23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

๖-236-จ-0003

10/08/23

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บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 7 of 12

## TEST REPORT

**Analysis No.** : R23-3014  
**Received Date** : 25/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2309-WW0671 = yellow turbid/slight brown sediment

**Report Date** : 12/10/23  
**Analysis Date** : 22/09-02/10/23  
**Job No.** : S660153/Sep  
**Sampling Date** : 22/09/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard | Analysis Date  |
|------|-------------------------|------------|---|------------------------|----------|----------------|
|      |                         |            |   | 2309-WW0671            |          |                |
|      |                         |            |   | บ่อพักน้ำทิ้งหมายเลข 1 |          |                |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 29.6                   | 40       | 22/09/23       |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.44                   | 5.5-9.0  | 22/09/23       |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 9.0                    | 50       | 28/09/23       |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 771                    | 3,000    | 26/09/23       |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                      | 20       | 27/09-02/10/23 |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 41                     | 120      | 26/09/23       |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 26/09/23       |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 33                     | -        | 25-28/09/23    |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 1 = 47P 0726673 UTM 1710600

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

12/10/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

12/10/23

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## TEST REPORT

**Analysis No.** : R23-3014/DIW  
**Received Date** : 25/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2309-WW0671 = yellow turbid/slight brown sediment

**Report Date** : 12/10/23  
**Analysis Date** : 22/09-02/10/23  
**Job No.** : S660153/Sep  
**Sampling Date** : 22/09/23  
**Sampling By** : Mr. Witon Walairat  
**Registration No.** : ว-236-0-0021  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result               | Standard | Analysis Date  |
|------|--------------|------|---|----------------------|----------|----------------|
|      |              |      |   | 2309-WW0671          |          |                |
|      |              |      |   | ข้อพิพาททั้งหมดเลข 1 |          |                |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 29.6                 | 40       | 22/09/23       |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.44                 | 5.5-9.0  | 22/09/23       |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 9.0                  | 50       | 28/09/23       |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 771                  | 3,000    | 26/09/23       |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                    | 20       | 27/09-02/10/23 |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 41                   | 120      | 26/09/23       |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                  | 5        | 26/09/23       |

**Remarks** : ข้อพิพาททั้งหมดเลข 1 = 47P 0726673 UTM 1710600  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
ว-236-0-0002  
12/10/23



Approved by

Mrs. Pornip Pethshee  
Laboratory Manager  
ว-236-0-0003  
12/10/23

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 8 of 12

## TEST REPORT

**Analysis No.** : R23-3014  
**Received Date** : 25/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2309-WW0672 = yellow turbid/slight brown sediment

**Report Date** : 12/10/23  
**Analysis Date** : 22/09-02/10/23  
**Job No.** : S660153/Sep  
**Sampling Date** : 22/09/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard | Analysis Date  |
|------|-------------------------|------------|---|------------------------|----------|----------------|
|      |                         |            |   | 2309-WW0672            |          |                |
|      |                         |            |   | บ่อพักน้ำทิ้งหมายเลข 2 |          |                |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 29.0                   | 40       | 22/09/23       |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.48                   | 5.5-9.0  | 22/09/23       |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 5.3                    | 50       | 28/09/23       |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 710                    | 3,000    | 26/09/23       |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                      | 20       | 27/09-02/10/23 |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 33                     | 120      | 26/09/23       |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 26/09/23       |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 1.1 x 10 <sup>2</sup>  | -        | 25-28/09/23    |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 2 = 47P 0726676 UTM 1710611

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
 Chief of Laboratory

12/10/23



Approved by

Mrs. Pornip Pethshee  
 Laboratory Manager

12/10/23

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## TEST REPORT

**Analysis No.** : R23-3014/DIW  
**Received Date** : 25/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2309-WW0672 = yellow turbid/slight brown sediment

**Report Date** : 12/10/23  
**Analysis Date** : 22/09-02/10/23  
**Job No.** : S660153/Sep  
**Sampling Date** : 22/09/23  
**Sampling By** : Mr. Witoon Walairat  
**Registration No.** : ๓-236-๑-0021  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date  |
|------|--------------|------|---|------------------------|----------|----------------|
|      |              |      |   | 2309-WW0672            |          |                |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 2 |          |                |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 29.0                   | 40       | 22/09/23       |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.48                   | 5.5-9.0  | 22/09/23       |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 5.3                    | 50       | 28/09/23       |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 710                    | 3,000    | 26/09/23       |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                      | 20       | 27/09-02/10/23 |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 33                     | 120      | 26/09/23       |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 26/09/23       |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 2 = 47P 0726676 UTM 1710611  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
๓-236-๑-0002  
12/10/23



Approved by

Mrs. Pornip Pethshee  
Laboratory Manager  
๓-236-๑-0003  
12/10/23

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## TEST REPORT

**Analysis No.** : R23-3014/DIW  
**Received Date** : 25/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2309-WW0673 = yellow turbid/slight brown sediment

**Report Date** : 12/10/23  
**Analysis Date** : 22/09-02/10/23  
**Job No.** : S660153/Sep  
**Sampling Date** : 22/09/23  
**Sampling By** : Mr. Witoon Walairat  
**Registration No.** : จ-236-จ-0021  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date  |
|------|--------------|------|---|------------------------|----------|----------------|
|      |              |      |   | 2309-WW0673            |          |                |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 3 |          |                |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 29.8                   | 40       | 22/09/23       |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.93                   | 5.5-9.0  | 22/09/23       |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                  | 50       | 28/09/23       |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 1,100                  | 3,000    | 26/09/23       |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 1                      | 20       | 27/09-02/10/23 |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 33                     | 120      | 26/09/23       |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4                    | 5        | 26/09/23       |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 3 = 47P 0726427 UTM 1710290  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory

จ-236-ก-0002  
12/10/23



Approved by

Mrs. Pomtip Pethshee  
Laboratory Manager

จ-236-ก-0003  
12/10/23

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## TEST REPORT

**Analysis No.** : R23-3014  
**Received Date** : 25/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2309-WW0673 = yellow turbid/slight brown sediment

**Report Date** : 12/10/23  
**Analysis Date** : 22/09-02/10/23  
**Job No.** : S660153/Sep  
**Sampling Date** : 22/09/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                     | Standard | Analysis Date  |
|------|-------------------------|------------|---|----------------------------|----------|----------------|
|      |                         |            |   | 2309-WW0673                |          |                |
|      |                         |            |   | ข้อพิพาททั้งหมดยกเว้นข้อ 3 |          |                |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 29.8                       | 40       | 22/09/23       |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.93                       | 5.5-9.0  | 22/09/23       |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                      | 50       | 28/09/23       |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 1,100                      | 3,000    | 26/09/23       |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 1                          | 20       | 27/09-02/10/23 |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 33                         | 120      | 26/09/23       |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4                        | 5        | 26/09/23       |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | < 1.8                      | -        | 25-28/09/23    |

**Remarks** : ข้อพิพาททั้งหมดยกเว้นข้อ 3 = 47P 0726427 UTM 1710290

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
12/10/23



Approved by

Mrs. Pornip Pethshee  
Laboratory Manager  
12/10/23

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## TEST REPORT

**Analysis No.** : R23-3014/DIW  
**Received Date** : 25/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2309-WW0674 = yellow turbid/slight brown sediment

**Report Date** : 12/10/23  
**Analysis Date** : 22/09-02/10/23  
**Job No.** : S660153/Sep  
**Sampling Date** : 22/09/23  
**Sampling By** : Mr. Witoon Walairat  
**Registration No.** : จ-236-จ-0021  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date  |
|------|--------------|------|---|------------------------|----------|----------------|
|      |              |      |   | 2309-WW0674            |          |                |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 4 |          |                |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 29.5                   | 40       | 22/09/23       |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.91                   | 5.5-9.0  | 22/09/23       |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                  | 50       | 28/09/23       |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 1,148                  | 3,000    | 02/10/23       |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | < 1                    | 20       | 27/09-02/10/23 |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 27                     | 120      | 26/09/23       |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4                    | 5        | 26/09/23       |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 4 = 47P 0726426 UTM 1710298  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
จ-236-ก-0002  
12/10/23



Approved by

Mrs. Pornpip Pethshee  
Laboratory Manager  
จ-236-ก-0003  
12/10/23

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## TEST REPORT

**Analysis No.** : R23-3014  
**Received Date** : 25/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2309-WW0674 = yellow turbid/slight brown sediment

**Report Date** : 12/10/23  
**Analysis Date** : 22/09-02/10/23  
**Job No.** : S660153/Scp  
**Sampling Date** : 22/09/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                | Standard | Analysis Date  |
|------|-------------------------|------------|---|-----------------------|----------|----------------|
|      |                         |            |   | 2309-WW0674           |          |                |
|      |                         |            |   | ข้อพิพาททั้งหมายเลข 4 |          |                |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 29.5                  | 40       | 22/09/23       |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.91                  | 5.5-9.0  | 22/09/23       |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                 | 50       | 28/09/23       |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 1,148                 | 3,000    | 02/10/23       |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | < 1                   | 20       | 27/09-02/10/23 |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 27                    | 120      | 26/09/23       |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4                   | 5        | 26/09/23       |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | < 1.8                 | -        | 25-28/09/23    |

**Remarks** : ข้อพิพาททั้งหมายเลข 4 = 47P 0726426 UTM 1710298

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

12/10/23



Approved by

Mrs. Pornip Pethshee

Laboratory Manager

12/10/23

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## TEST REPORT

**Analysis No.** : R23-3731  
**Received Date** : 09/10/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2310-WW0308 = yellow turbid/high yellow sediment

**Report Date** : 23/11/23  
**Analysis Date** : 07-16/10/23  
**Job No.** : S660153/Oct  
**Sampling Date** : 07/10/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard |         | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------|---------------|
|      |                         |            |   | 2310-WW0308            |          |         |               |
|      |                         |            |   | บ่อพักน้ำทิ้งหมายเลข 1 | (1)      | (2)     |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 28.3                   | 40       | -       | 07/10/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.63                   | 5.5-9.0  | 5.5-9.0 | 07/10/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 4.8                    | 50       | 50      | 12/10/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 716                    | 3,000    | 3,000   | 10-11/10/23   |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 4                      | 20       | 20      | 11-16/10/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 39                     | 120      | 120     | 11/10/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.7                    | 5        | 5       | 12/10/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 13                     | -        | -       | 09-12/10/23   |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 1 = 47P 0726673 UTM 1710600  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** (1) Notification of the Ministry of Industry (2017) (B.E. 2560)  
(2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by   
Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
23/11/23

Approved by   
Mrs. Pornip Pethshee  
Laboratory Manager  
23/11/23

"Refer to Analysis No. R23-3229 and follow to QF-10-02 No. 037/23 in order to edit standard on page 3-4"

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## TEST REPORT

**Analysis No.** : R23-3731/DIW  
**Received Date** : 09/10/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2310-WW0308 = yellow turbid/high yellow sediment

**Report Date** : 23/11/23  
**Analysis Date** : 07-16/10/23  
**Job No.** : S660153/Oct  
**Sampling Date** : 07/10/23  
**Sampling By** : Mr. Paryud Jiwdach  
**Registration No.** : ๖-236-๖-0027  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result               | Standard | Analysis Date |
|------|--------------|------|---|----------------------|----------|---------------|
|      |              |      |   | 2310-WW0308          |          |               |
|      |              |      |   | ข้อพิพาททั้งหมดเลข 1 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 28.3                 | 40       | 07/10/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.63                 | 5.5-9.0  | 07/10/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 4.8                  | 50       | 12/10/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 716                  | 3,000    | 10-11/10/23   |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 4                    | 20       | 11-16/10/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 39                   | 120      | 11/10/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.7                  | 5        | 12/10/23      |

**Remarks** : ข้อพิพาททั้งหมดเลข 1 = 47P 0726673 UTM 1710600

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
๖-236-๖-0002  
23.11.23



Approved by

Mrs. Pornip Pethshee  
Laboratory Manager  
๖-236-๖-0003  
23.11.23

“Refer to Analysis No. R23-3229 and follow to QF-10-02 No. 037/23”

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 2 of 6

## TEST REPORT

**Analysis No.** : R23-3731  
**Received Date** : 09/10/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2310-WW0309 = yellow turbid/high yellow sediment

**Report Date** : 23/11/23  
**Analysis Date** : 07-16/10/23  
**Job No.** : S660153/Oct  
**Sampling Date** : 07/10/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard |         | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------|---------------|
|      |                         |            |   | 2310-WW0309            |          |         |               |
|      |                         |            |   | บ่อกักน้ำทิ้งหมายเลข 2 | (1)      | (2)     |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 28.2                   | 40       | -       | 07/10/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.50                   | 5.5-9.0  | 5.5-9.0 | 07/10/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 3.5                    | 50       | 50      | 12/10/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 710                    | 3,000    | 3,000   | 10-11/10/23   |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                      | 20       | 20      | 11-16/10/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 35                     | 120      | 120     | 11/10/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 5       | 12/10/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 3.3 x 10 <sup>3</sup>  | -        | -       | 09-12/10/23   |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 2 = 47P 0726676 UTM 1710611

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** (1) Notification of the Ministry of Industry (2017) (B.E. 2560)

(2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

23/11/23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

23/11/23

“Refer to Analysis No. R23-3229 and follow to QF-10-02 No. 037/23 in order to edit standard on page 3-4”

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## TEST REPORT

**Analysis No.** : R23-3731/DIW  
**Received Date** : 09/10/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2310-WW0309 = yellow turbid/high yellow sediment

**Report Date** : 23/11/23  
**Analysis Date** : 07-16/10/23  
**Job No.** : S660153/Oct  
**Sampling Date** : 07/10/23  
**Sampling By** : Mr. Paryud Jiwdach  
**Registration No.** : จ-236-จ-0027  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date |
|------|--------------|------|---|------------------------|----------|---------------|
|      |              |      |   | 2310-WW0309            |          |               |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 2 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 28.2                   | 40       | 07/10/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.50                   | 5.5-9.0  | 07/10/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 3.5                    | 50       | 12/10/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 710                    | 3,000    | 10-11/10/23   |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                      | 20       | 11-16/10/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 35                     | 120      | 11/10/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 12/10/23      |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 2 = 47P 0726676 UTM 1710611  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
จ-236-ท-0002  
23.11.23



Approved by

Mrs. Porntip Pethshee  
Laboratory Manager  
จ-236-ท-0003  
23.11.23

“Refer to Analysis No. R23-3229 and follow to QF-10-02 No. 037/23”

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 3 of 6

## TEST REPORT

Analysis No. : R23-3731

Report Date : 23/11/23

Received Date : 09/10/23

Analysis Date : 07-16/10/23

Customer : Technical Division of Thai Environmental Technic Limited

Job No. : S660153/Oct

For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Sampling Date : 07/10/23

โครงการ โรงไฟฟ้าชีวมวล สาขา 2

Sampling By : TET

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170

Type of Sample : Wastewater

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Sample Conditions : 2310-WW0310 = clear/slight black sediment

| Item | Parameter               | Unit       | Method  | Result                 | Standard |         | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------|---------------|
|      |                         |            |   | 2310-WW0310            | (1)      | (2)     |               |
|      |                         |            |   | บ่อกักน้ำทิ้งหมายเลข 3 |          |         |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 28.1                   | 40       | 40      | 07/10/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.56                   | 5.5-9.0  | 5.5-9.0 | 07/10/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                  | 50       | -       | 12/10/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 878                    | 3,000    | -       | 10-11/10/23   |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                      | 20       | -       | 11-16/10/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 19                     | 120      | -       | 11/10/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4                    | 5        | -       | 12/10/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 7.8 x 10 <sup>2</sup>  | -        | -       | 09-12/10/23   |

Remarks : บ่อพักน้ำทิ้งหมายเลข 3 = 47P 0726427 UTM 1710290

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

Standard (1) Notification of the Ministry of Industry (2017) (B.E. 2560)

(2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

23/11/23



Approved by

Mrs. Pornip Pethshee

Laboratory Manager

23/11/23

“Refer to Analysis No. R23-3229 and follow to QF-10-02 No. 037/23 in order to edit standard on page 3-4”

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## TEST REPORT

**Analysis No.** : R23-3731/DIW  
**Received Date** : 09/10/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2310-WW0310 = clear/slight black sediment

**Report Date** : 23/11/23  
**Analysis Date** : 07-16/10/23  
**Job No.** : S660153/Oct  
**Sampling Date** : 07/10/23  
**Sampling By** : Mr. Paryud Jiwdach  
**Registration No.** : จ-236-จ-0027  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date |
|------|--------------|------|---|------------------------|----------|---------------|
|      |              |      |   | 2310-WW0310            |          |               |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 3 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 28.1                   | 40       | 07/10/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.56                   | 5.5-9.0  | 07/10/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                  | 50       | 12/10/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 878                    | 3,000    | 10-11/10/23   |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                      | 20       | 11-16/10/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 19                     | 120      | 11/10/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4                    | 5        | 12/10/23      |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 3 = 47P 0726427 UTM 1710290  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
จ-236-ก-0002  
23/11/23



Approved by

Mrs. Pornpip Pethshee  
Laboratory Manager  
จ-236-ก-0003  
23/11/23

“Refer to Analysis No. R23-3229 and follow to QF-10-02 No. 037/23”

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## TEST REPORT

**Analysis No.** : R23-3731  
**Received Date** : 09/10/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2310-WW0311 = clear/slight black sediment

**Report Date** : 23/11/23  
**Analysis Date** : 07-16/10/23  
**Job No.** : S660153/Oct  
**Sampling Date** : 07/10/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard |         | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------|---------------|
|      |                         |            |   | 2310-WW0311            |          |         |               |
|      |                         |            |   | ข้อกักน้ำทิ้งหมายเลข 4 | (1)      | (2)     |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 28.3                   | 40       | 40      | 07/10/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.64                   | 5.5-9.0  | 5.5-9.0 | 07/10/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                  | 50       | -       | 12/10/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 812                    | 3,000    | -       | 10-11/10/23   |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                      | 20       | -       | 11-16/10/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 16                     | 120      | -       | 11/10/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4                    | 5        | -       | 12/10/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 78                     | -        | -       | 09-12/10/23   |

**Remarks** : ข้อกักน้ำทิ้งหมายเลข 4 = 47P 0726426 UTM 1710298

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** (1) Notification of the Ministry of Industry (2017) (B.E. 2560)  
(2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

03/11/23



Approved by

Mrs. Pornip Pethshee

Laboratory Manager

13/11/23

“Refer to Analysis No. R23-3229 and follow to QF-10-02 No. 037/23 in order to edit standard on page 3-4”

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## TEST REPORT

**Analysis No.** : R23-3731/DIW  
**Received Date** : 09/10/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2310-WW0311 = clear/slight black sediment

**Report Date** : 23/11/23  
**Analysis Date** : 07-16/10/23  
**Job No.** : S660153/Oct  
**Sampling Date** : 07/10/23  
**Sampling By** : Mr. Paryud Jiwdach  
**Registration No.** : ว-236-จ-0027  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                | Standard | Analysis Date |
|------|--------------|------|---|-----------------------|----------|---------------|
|      |              |      |   | 2310-WW0311           |          |               |
|      |              |      |   | ข้อพิพาททั้งหมายเลข 4 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 28.3                  | 40       | 07/10/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.64                  | 5.5-9.0  | 07/10/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                 | 50       | 12/10/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 812                   | 3,000    | 10-11/10/23   |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 3                     | 20       | 11-16/10/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 16                    | 120      | 11/10/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4                   | 5        | 12/10/23      |

**Remarks** : ข้อพิพาททั้งหมายเลข 4 = 47P 0726426 UTM 1710298

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

ว-236-ก-0002

23/11/23



Approved by

Mrs. Pornip Pethshee

Laboratory Manager

ว-236-ก-0003

23/11/23

“Refer to Analysis No. R23-3229 and follow to QF-10-02 No. 037/23”

..... END OF REPORT .....

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## TEST REPORT

**Analysis No.** : R23-3756  
**Received Date** : 22/11/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2311-WW0588 = yellow turbid/slight black sediment

**Report Date** : 01/12/23  
**Analysis Date** : 21-27/11/23  
**Job No.** : S660153/Nov  
**Sampling Date** : 21/11/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard |         | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------|---------------|
|      |                         |            |   | 2311-WW0588            |          |         |               |
|      |                         |            |   | บ่อพักน้ำทิ้งหมายเลข 1 | (1)      | (2)     |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 29.7                   | 40       | -       | 21/11/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.64                   | 5.5-9.0  | 5.5-9.0 | 21/11/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 3.2                    | 50       | 50      | 24/11/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 766                    | 3,000    | 3,000   | 24/11/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 5                      | 20       | 20      | 22-27/11/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 45                     | 120      | 120     | 23/11/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8                    | 5        | 5       | 23/11/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 3.9 x 10 <sup>3</sup>  | -        | -       | 22-27/11/23   |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 1 = 47P 0726673 UTM 1710600  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** (1) Notification of the Ministry of Industry (2017) (B.E. 2560)  
(2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
01.12.23



Approved by

Mrs. Pomtip Pethshee  
Laboratory Manager  
01.12.23

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Thai Environmental Technic Limited

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

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E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 1 of 4

## TEST REPORT

Analysis No. : R23-3756/DIW

Received Date : 22/11/23

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

โครงการ โรงไฟฟ้าชีวมวล สาขา 2

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Sample Conditions : 2311-WW0588 = yellow turbid/slight black sediment

Report Date : 01/12/23

Analysis Date : 21-27/11/23

Job No. : S660153/Nov

Sampling Date : 21/11/23

Sampling By : Mr. Pramual Moonsarn

Registration No. : ว-236-ก-0005

Type of Sample : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date |
|------|--------------|------|---|------------------------|----------|---------------|
|      |              |      |   | 2311-WW0588            |          |               |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 1 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 29.7                   | 40       | 21/11/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.64                   | 5.5-9.0  | 21/11/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 3.2                    | 50       | 24/11/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 766                    | 3,000    | 24/11/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 5                      | 20       | 22-27/11/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 45                     | 120      | 23/11/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8                    | 5        | 23/11/23      |

Remarks : บ่อพักน้ำทิ้งหมายเลข 1 = 47P 0726673 UTM 1710600

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

Standard : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

ว-236-ก-0002

01/12/23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

ว-236-ก-0003

01/12/23

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## TEST REPORT

**Analysis No.** : R23-3756  
**Received Date** : 22/11/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2311-WW0589 = yellow turbid/slight black sediment

**Report Date** : 01/12/23  
**Analysis Date** : 21-27/11/23  
**Job No.** : S660153/Nov  
**Sampling Date** : 21/11/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                | Standard |         | Analysis Date |
|------|-------------------------|------------|---|-----------------------|----------|---------|---------------|
|      |                         |            |   | 2311-WW0589           |          |         |               |
|      |                         |            |   | ข้อพิพาททั้งหมดเลข 2  | (1)      | (2)     |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 26.2                  | 40       | -       | 21/11/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.46                  | 5.5-9.0  | 5.5-9.0 | 21/11/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 3.4                   | 50       | 50      | 24/11/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 654                   | 3,000    | 3,000   | 24/11/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 4                     | 20       | 20      | 22-27/11/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 37                    | 120      | 120     | 23/11/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8                   | 5        | 5       | 23/11/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 3.3 x 10 <sup>2</sup> | -        | -       | 22-27/11/23   |

**Remarks** : ข้อพิพาททั้งหมดเลข 2 = 47P 0726676 UTM 1710611

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** (1) Notification of the Ministry of Industry (2017) (B.E. 2560)  
(2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory  
01.12.23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager  
01.12.23

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 2 of 4

## TEST REPORT

**Analysis No.** : R23-3756/DIW  
**Received Date** : 22/11/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2311-WW0589 = yellow turbid/slight black sediment

**Report Date** : 01/12/23  
**Analysis Date** : 21-27/11/23  
**Job No.** : S660153/Nov  
**Sampling Date** : 21/11/23  
**Sampling By** : Mr. Pramual Moonsarn  
**Registration No.** : ว-236-ก-0005  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                   | Standard | Analysis Date |
|------|--------------|------|---|--------------------------|----------|---------------|
|      |              |      |   | 2311-WW0589              |          |               |
|      |              |      |   | ข้อพิพาททั้งหมดหมายเลข 2 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 26.2                     | 40       | 21/11/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.46                     | 5.5-9.0  | 21/11/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 3.4                      | 50       | 24/11/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 654                      | 3,000    | 24/11/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 4                        | 20       | 22-27/11/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 37                       | 120      | 23/11/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8                      | 5        | 23/11/23      |

**Remarks** : ข้อพิพาททั้งหมดหมายเลข 2 - 47P 0726676 UTM 1710611

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

ว-236-ก-0002

01/12/23



Approved by

Mrs. Pornip Pethshee

Laboratory Manager

ว-236-ก-0003

01/12/23

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## TEST REPORT

**Analysis No.** : R23-3756  
**Received Date** : 22/11/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2311-WW0590 = yellow turbid/slight black sediment

**Report Date** : 01/12/23  
**Analysis Date** : 21-27/11/23  
**Job No.** : S660153/Nov  
**Sampling Date** : 21/11/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                   | Standard |         | Analysis Date |
|------|-------------------------|------------|---|--------------------------|----------|---------|---------------|
|      |                         |            |   | 2311-WW0590              |          |         |               |
|      |                         |            |   | ข้อพิพาททั้งหมดหมายเลข 3 | (1)      | (2)     |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 26.3                     | 40       | 40      | 21/11/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.40                     | 5.5-9.0  | 5.5-9.0 | 21/11/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 3.2                      | 50       | -       | 24/11/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 682                      | 3,000    | -       | 24/11/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 1                        | 20       | -       | 22-27/11/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 14                       | 120      | -       | 23/11/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                      | 5        | -       | 23/11/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 1.3 x 10 <sup>3</sup>    | -        | -       | 22-27/11/23   |

**Remarks** : ข้อพิพาททั้งหมดหมายเลข 3 = 47P 0726427 UTM 1710290

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** (1) Notification of the Ministry of Industry (2017) (B.E. 2560)

(2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

01/12/23



Approved by

Mrs. Pornip Pethshee

Laboratory Manager

01/12/23

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บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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## TEST REPORT

**Analysis No.** : R23-3756/DIW  
**Received Date** : 22/11/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2311-WW0590 = yellow turbid/slight black sediment

**Report Date** : 01/12/23  
**Analysis Date** : 21-27/11/23  
**Job No.** : S660153/Nov  
**Sampling Date** : 21/11/23  
**Sampling By** : Mr. Pramual Moonsarn  
**Registration No.** : ว-236-ก-0005  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date |
|------|--------------|------|---|------------------------|----------|---------------|
|      |              |      |   | 2311-WW0590            |          |               |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 3 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 26.3                   | 40       | 21/11/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.40                   | 5.5-9.0  | 21/11/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 3.2                    | 50       | 24/11/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 682                    | 3,000    | 24/11/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 1                      | 20       | 22-27/11/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 14                     | 120      | 23/11/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 23/11/23      |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 3 = 47P 0726427 UTM 1710290

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

ว-236-ก-0002

01/12/23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

ว-236-ก-0003

01/12/23

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## TEST REPORT

**Analysis No.** : R23-3756  
**Received Date** : 22/11/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2311-WW0591 = yellow turbid/slight black sediment

**Report Date** : 01/12/23  
**Analysis Date** : 21-27/11/23  
**Job No.** : S660153/Nov  
**Sampling Date** : 21/11/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard |         | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------|---------------|
|      |                         |            |   | 2311-WW0591            |          |         |               |
|      |                         |            |   | บ่อกักน้ำทิ้งหมายเลข 4 | (1)      | (2)     |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 26.4                   | 40       | 40      | 21/11/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 8.39                   | 5.5-9.0  | 5.5-9.0 | 21/11/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 3.1                    | 50       | -       | 24/11/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 657                    | 3,000    | -       | 24/11/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                      | 20       | -       | 22-27/11/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 28                     | 120      | -       | 23/11/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | -       | 23/11/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 1.3 x 10 <sup>3</sup>  | -        | -       | 22-27/11/23   |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 4 = 47P 0726426 UTM 1710298

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** (1) Notification of the Ministry of Industry (2017) (B.E. 2560)

(2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

01.12.23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

01.12.23

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## TEST REPORT

**Analysis No.** : R23-3756/DIW  
**Received Date** : 22/11/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2311-WW0591 = yellow turbid/slight black sediment


**Report Date** : 01/12/23  
**Analysis Date** : 21-27/11/23  
**Job No.** : S660153/Nov  
**Sampling Date** : 21/11/23  
**Sampling By** : Mr. Pramual Moonsarn  
**Registration No.** : ว-236-ก-0005  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                | Standard | Analysis Date |
|------|--------------|------|---|-----------------------|----------|---------------|
|      |              |      |   | 2311-WW0591           |          |               |
|      |              |      |   | ข้อพิพาททั้งหมายเลข 4 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 26.4                  | 40       | 21/11/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 8.39                  | 5.5-9.0  | 21/11/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 3.1                   | 50       | 24/11/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 657                   | 3,000    | 24/11/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                     | 20       | 22-27/11/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 28                    | 120      | 23/11/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                   | 5        | 23/11/23      |

**Remarks** : ข้อพิพาททั้งหมายเลข 4 = 47P 0726426 UTM 1710298  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by   
Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
ว-236-ก-0002  
01/12/23



Approved by   
Mrs. Pornip Pethshee  
Laboratory Manager  
ว-236-ก-0003  
01/12/23

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## TEST REPORT

**Analysis No.** : R23-3906  
**Received Date** : 06/12/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2312-WW0125 = yellow turbid/slight black sediment

**Report Date** : 15/12/23  
**Analysis Date** : 04-11/12/23  
**Job No.** : S660153/Dec  
**Sampling Date** : 04/12/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard |         | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------|---------------|
|      |                         |            |   | 2312-WW0125            |          |         |               |
|      |                         |            |   | บ่อพักน้ำทิ้งหมายเลข 1 | (1)      | (2)     |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 30.5                   | 40       | -       | 04/12/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 7.52                   | 5.5-9.0  | 5.5-9.0 | 04/12/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 2.6                    | 50       | 50      | 08/12/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 592                    | 3,000    | 3,000   | 08/12/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                      | 20       | 20      | 06-11/12/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 24                     | 120      | 120     | 07/12/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 5       | 08/12/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 1.3 x 10 <sup>2</sup>  | -        | -       | 06-11/12/23   |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 1 = 47P 0726673 UTM 1710600  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** (1) Notification of the Ministry of Industry (2017) (B.E. 2560)  
 (2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

15.12.23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

15.12.23





Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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Page 1 of 4

## TEST REPORT

**Analysis No.** : R23-3906/DIW  
**Received Date** : 06/12/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2312-WW0125 = yellow turbid/slight black sediment

**Report Date** : 15/12/23  
**Analysis Date** : 04-11/12/23  
**Job No.** : S660153/Dec  
**Sampling Date** : 04/12/23  
**Sampling By** : Mr. Pramual Moonsarn  
**Registration No.** : ว-236-ก-0005  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                   | Standard | Analysis Date |
|------|--------------|------|---|--------------------------|----------|---------------|
|      |              |      |   | 2312-WW0125              |          |               |
|      |              |      |   | ข้อพิพาททั้งหมดหมายเลข 1 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 30.5                     | 40       | 04/12/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 7.52                     | 5.5-9.0  | 04/12/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 2.6                      | 50       | 08/12/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 592                      | 3,000    | 08/12/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                        | 20       | 06-11/12/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 24                       | 120      | 07/12/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                      | 5        | 08/12/23      |

**Remarks** : ข้อพิพาททั้งหมดหมายเลข 1 = 47P 0726673 UTM 1710600

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

ว-236-ก-0002

15, 12, 23



Approved by

Mrs. Pornpip Pethishee

Laboratory Manager

ว-236-ก-0003

15, 12, 23

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## TEST REPORT

**Analysis No.** : R23-3906  
**Received Date** : 06/12/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2312-WW0126 = yellow turbid/slight black sediment

**Report Date** : 15/12/23  
**Analysis Date** : 04-11/12/23  
**Job No.** : S660153/Dec  
**Sampling Date** : 04/12/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                | Standard |         | Analysis Date |
|------|-------------------------|------------|---|-----------------------|----------|---------|---------------|
|      |                         |            |   | 2312-WW0126           | (1)      | (2)     |               |
|      |                         |            |   | ข้อพิพาททั้งหมายเลข 2 |          |         |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 31.8                  | 40       | -       | 04/12/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 7.59                  | 5.5-9.0  | 5.5-9.0 | 04/12/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | 3.2                   | 50       | 50      | 08/12/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 672                   | 3,000    | 3,000   | 08/12/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                     | 20       | 20      | 06-11/12/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 20                    | 120      | 120     | 07/12/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                   | 5        | 5       | 08/12/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 1.1 x 10 <sup>2</sup> | -        | -       | 06-11/12/23   |

**Remarks** : ข้อพิพาททั้งหมายเลข 2 = 47P 0726676 UTM 1710611

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** (1) Notification of the Ministry of Industry (2017) (B.E. 2560)  
(2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

15.12.23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

15.12.23

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

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Page 2 of 4

## TEST REPORT

**Analysis No.** : R23-3906/DIW  
**Received Date** : 06/12/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2312-WW0126 = yellow turbid/slight black sediment

**Report Date** : 15/12/23  
**Analysis Date** : 04-11/12/23  
**Job No.** : S660153/Dec  
**Sampling Date** : 04/12/23  
**Sampling By** : Mr. Pramual Moonsarn  
**Registration No.** : ว-236-ก-0005  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date |
|------|--------------|------|---|------------------------|----------|---------------|
|      |              |      |   | 2312-WW0126            |          |               |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 2 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 31.8                   | 40       | 04/12/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 7.59                   | 5.5-9.0  | 04/12/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | 3.2                    | 50       | 08/12/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 672                    | 3,000    | 08/12/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                      | 20       | 06-11/12/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 20                     | 120      | 07/12/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6                    | 5        | 08/12/23      |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 2 = 47P 0726676 UTM 1710611  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory

ว-236-ก-0002  
15/12/23



Approved by

Mrs. Pomtip Pethshee  
Laboratory Manager

ว-236-ก-0003  
15/12/23

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## TEST REPORT

**Analysis No.** : R23-3906  
**Received Date** : 06/12/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2312-WW0127 = yellow turbid/slight black sediment

**Report Date** : 15/12/23  
**Analysis Date** : 04-11/12/23  
**Job No.** : S660153/Dec  
**Sampling Date** : 04/12/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                   | Standard |         | Analysis Date |
|------|-------------------------|------------|---|--------------------------|----------|---------|---------------|
|      |                         |            |   | 2312-WW0127              |          |         |               |
|      |                         |            |   | ข้อพิพาททั้งหมดหมายเลข 3 | (1)      | (2)     |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 31.9                     | 40       | 40      | 04/12/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 7.97                     | 5.5-9.0  | 5.5-9.0 | 04/12/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                    | 50       | -       | 08/12/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 1,086                    | 3,000    | -       | 08/12/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                        | 20       | -       | 06-11/12/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 17                       | 120      | -       | 07/12/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4                      | 5        | -       | 08/12/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 13                       | -        | -       | 06-11/12/23   |

**Remarks** : ข้อพิพาททั้งหมดหมายเลข 3 = 47P 0726427 UTM 1710290  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** (1) Notification of the Ministry of Industry (2017) (B.E. 2560)  
(2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
15/12/23



Approved by

Mrs. Pomtip Pethshee  
Laboratory Manager  
15/12/23

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Thai Environmental Technic Limited

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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Page 3 of 4

## TEST REPORT

**Analysis No.** : R23-3906/DIW  
**Received Date** : 06/12/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2312-WW0127 = yellow turbid/slight black sediment

**Report Date** : 15/12/23  
**Analysis Date** : 04-11/12/23  
**Job No.** : S660153/Dec  
**Sampling Date** : 04/12/23  
**Sampling By** : Mr. Pramual Moonsarn  
**Registration No.** : ว-236-ก-0005  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result                 | Standard | Analysis Date |
|------|--------------|------|---|------------------------|----------|---------------|
|      |              |      |   | 2312-WW0127            |          |               |
|      |              |      |   | บ่อพักน้ำทิ้งหมายเลข 3 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 31.9                   | 40       | 04/12/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 7.97                   | 5.5-9.0  | 04/12/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                  | 50       | 08/12/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 1,086                  | 3,000    | 08/12/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | 2                      | 20       | 06-11/12/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 17                     | 120      | 07/12/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4                    | 5        | 08/12/23      |

**Remarks** : บ่อพักน้ำทิ้งหมายเลข 3 = 47P 0726427 UTM 1710290  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory

ว-236-ก-0002  
15.12.23



Approved by

Mrs. Porntip Pethshee  
Laboratory Manager

ว-236-ก-0003  
15.12.23

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 4 of 6

## TEST REPORT

**Analysis No.** : R23-3906  
**Received Date** : 06/12/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2312-WW0128 = yellow turbid/slight black sediment

**Report Date** : 15/12/23  
**Analysis Date** : 04-11/12/23  
**Job No.** : S660153/Dec  
**Sampling Date** : 04/12/23  
**Sampling By** : TET  
**Type of Sample** : Wastewater

| Item | Parameter               | Unit       | Method  | Result                 | Standard |         | Analysis Date |
|------|-------------------------|------------|---|------------------------|----------|---------|---------------|
|      |                         |            |   | 2312-WW0128            |          |         |               |
|      |                         |            |   | ข้อกักน้ำทิ้งหมายเลข 4 | (1)      | (2)     |               |
| 1    | Temperature             | °C         | Laboratory and Field, Methods (SM 2550B)                | 31.1                   | 40       | 40      | 04/12/23      |
| 2    | pH                      | -          | Electrometric Method (SM 4500 B)                        | 7.80                   | 5.5-9.0  | 5.5-9.0 | 04/12/23      |
| 3    | TSS                     | mg/L       | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                  | 50       | -       | 08/12/23      |
| 4    | TDS                     | mg/L       | Dried at 180 °C (SM 2540 C)                             | 736                    | 3,000    | -       | 08/12/23      |
| 5    | BOD                     | mg/L       | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | < 1                    | 20       | -       | 06-11/12/23   |
| 6    | COD                     | mg/L       | Closed Reflux Titrimetric Method (SM 5220 C)            | 13                     | 120      | -       | 07/12/23      |
| 7    | Oil & Grease            | mg/L       | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.2                    | 5        | -       | 08/12/23      |
| 8    | Fecal Coliform Bacteria | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E)      | 23                     | -        | -       | 06-11/12/23   |

**Remarks** : ข้อกักน้ำทิ้งหมายเลข 4 = 47P 0726426 UTM 1710298

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** (1) Notification of the Ministry of Industry (2017) (B.E. 2560)  
 (2) Notification of the Ministry of Natural Resources and Environment (2022) (B.E. 2565)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

15/12/23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

15/12/23

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Thai Environmental Technic Limited

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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Page 4 of 4

## TEST REPORT

**Analysis No.** : R23-3906/DIW  
**Received Date** : 06/12/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2312-WW0128 = yellow turbid/slight black sediment

**Report Date** : 15/12/23  
**Analysis Date** : 04-11/12/23  
**Job No.** : S660153/Dec  
**Sampling Date** : 04/12/23  
**Sampling By** : Mr. Pramual Moonsarn  
**Registration No.** : ๖-236-ค-0005  
**Type of Sample** : Wastewater

| Item | Parameter    | Unit | Method  | Result               | Standard | Analysis Date |
|------|--------------|------|---|----------------------|----------|---------------|
|      |              |      |   | 2312-WW0128          |          |               |
|      |              |      |   | ข้อพิพาททั้งหมดเลข 4 |          |               |
| 1    | Temperature  | °C   | Laboratory and Field, Methods (SM 2550B)                | 31.1                 | 40       | 04/12/23      |
| 2    | pH           | -    | Electrometric Method (SM 4500 B)                        | 7.80                 | 5.5-9.0  | 04/12/23      |
| 3    | TSS          | mg/L | Dried at 103-105 °C (SM 2540 D)                         | < 2.5                | 50       | 08/12/23      |
| 4    | TDS          | mg/L | Dried at 180 °C (SM 2540 C)                             | 736                  | 3,000    | 08/12/23      |
| 5    | BOD          | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B)  | < 1                  | 20       | 06-11/12/23   |
| 6    | COD          | mg/L | Closed Reflux Titrimetric Method (SM 5220 C)            | 13                   | 120      | 07/12/23      |
| 7    | Oil & Grease | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.2                  | 5        | 08/12/23      |

**Remarks** : ข้อพิพาททั้งหมดเลข 4 = 47P 0726426 UTM 1710298

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

๖-236-ค-0002

15/12/23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

๖-236-ค-0003

15/12/23

..... END OF REPORT .....

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## TEST REPORT

**Analysis No.** : R23-3037  
**Received Date** : 25/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017

**Report Date** : 02/10/23  
**Analysis Date** : 26-27/09/23  
**Job No.** : S660153/Sep/Occ  
**Sampling By** : TET  
**Type of Sample** : Working Area

| Sample No.  | Sampling point                 | Parameter       | Unit              | Sampling Date | Result | Standard | Analysis Date |
|-------------|--------------------------------|-----------------|-------------------|---------------|--------|----------|---------------|
| 2309-AW0751 | อาคารหม้อไอน้ำ                 | Total Dust      | mg/m <sup>3</sup> | 20/09/23      | 0.834  | 10       | 26-27/09/23   |
|             | - Area                         | Respirable Dust | mg/m <sup>3</sup> | 20/09/23      | 0.167  | 3        | 26-27/09/23   |
| 2309-AW0752 | บริเวณระบบสายพานลำเลียงกากอ้อย | Total Dust      | mg/m <sup>3</sup> | 20/09/23      | 0.502  | 10       | 26-27/09/23   |
|             | - Area                         | Respirable Dust | mg/m <sup>3</sup> | 20/09/23      | 0.083  | 3        | 26-27/09/23   |
| 2309-AW0753 | จากโรงงานน้ำตาลมายังโครงการ    | Total Dust      | mg/m <sup>3</sup> | 20/09/23      | 1.836  | 10       | 26-27/09/23   |
|             | - Area                         | Respirable Dust | mg/m <sup>3</sup> | 20/09/23      | 0.167  | 3        | 26-27/09/23   |
|             | ลานกองเถ้า                     | Total Dust      | mg/m <sup>3</sup> | 20/09/23      | 1.836  | 10       | 26-27/09/23   |
|             | - Area                         | Respirable Dust | mg/m <sup>3</sup> | 20/09/23      | 0.167  | 3        | 26-27/09/23   |
|             | - Person                       |                 |                   |               |        |          |               |

**Method** : Total Dust - Filtering, Gravimetric (NIOSH 0500, Issue 2 : Aug 1994)

Respirable Dust - Filtering, Gravimetric (NIOSH 0600, Issue 3 : Jan 1998)

**Standard** : American Conference of Governmental Industrial Hygienists ; ACGIH (TLV-TWA)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

02/10/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

02/10/23

END OF REPORT

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3037/2023/1-3

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 2, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ  
จังหวัดเพชรบูรณ์ 67170

Sampling Date : September 20, 2023

Type of Sample : Sound Level

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep/Occ

| Item     | Time        | Result (dB(A)) |      |                          |      |
|----------|-------------|----------------|------|--------------------------|------|
|          |             | อาคารหม้อไอน้ำ |      | บริเวณเครื่องกำเนิดไฟฟ้า |      |
|          |             | 20/09/23       |      | 20/09/23                 |      |
|          |             | Leq 1 hr.      | Lmax | Leq 1 hr.                | Lmax |
| 1.       | 09:30-10:30 | 80.4           | 88.8 | 83.3                     | 93.8 |
| 2.       | 10:30-11:30 | 77.3           | 87.3 | 84.9                     | 91.6 |
| 3.       | 11:30-12:30 | 81.4           | 94.1 | 83.3                     | 91.7 |
| 4.       | 12:30-13:30 | 80.1           | 91.4 | 82.1                     | 90.5 |
| 5.       | 13:30-14:30 | 80.7           | 96.9 | 81.8                     | 90.0 |
| 6.       | 14:30-15:30 | 76.8           | 86.1 | 83.0                     | 91.8 |
| 7.       | 15:30-16:30 | 79.8           | 85.8 | 83.7                     | 94.9 |
| 8.       | 16:30-17:30 | 82.3           | 97.5 | 83.4                     | 92.1 |
| Leq 8 hr |             | 80.2           | -    | 83.3                     | -    |
| Lmax     |             | -              | 97.5 | -                        | 94.9 |
| Standard |             | 90             | 140  | 90                       | 140  |

Standard : Notification of the Ministry of Industry (2003) (B.E. 2546)

*Suphakchaya Y.*

Suphakchaya Yoonim



*Somchai P.*

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3037/2023/2-3

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 2, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ  
จังหวัดเพชรบูรณ์ 67170

Sampling Date : September 20, 2023

Type of Sample : Noise Dose

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep/Occ

| Item | Description   | Unit  | Result         |                          | Standard           |
|------|---------------|-------|----------------|--------------------------|--------------------|
|      |               |       | อาคารหม้อไอน้ำ | บริเวณเครื่องกำเนิดไฟฟ้า |                    |
| 1.   | Sampling Date | -     | 20/09/23       | 20/09/23                 | -                  |
| 2.   | TWA           | dB(A) | 79.5           | 66.1                     | 85 <sup>(1)</sup>  |
| 3.   | Lmax          | dB(A) | 102.0          | 96.4                     | 115 <sup>(2)</sup> |
| 4.   | Dose          | %     | 28.0           | 1.3                      | 100 <sup>(3)</sup> |

Standard : <sup>(1)</sup> Notification of the Department of Labour Protection and Welfare (2018)(B.E. 2561)

<sup>(2)</sup> Ministry of Labour's Regulation (2016) (B.E. 2559)

<sup>(3)</sup> American Conference of Governmental Industrial Hygienists; ACGIH

*Suphakchaya Y.*

Suphakchaya Yoonim



*Somchai P.*

Somchai Piyavorasakul  
General Manager

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด

Report No. : 3037/2023/3-3

Project : โครงการโรงไฟฟ้าชีวมวล สาขา 2

Report Date : October 2, 2023

Address : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ  
จังหวัดเพชรบูรณ์ 67170

Sampling Date : September 20, 2023

Type of Sample : Heat

Contact : Tel. (056) 798 007-8 Fax. (056) 798 017

Job No. : S660153/Sep/Occ

| Item                       | Description   | Sampling Date | Sampling Time | Result (°C)  |              |              |              |              |
|----------------------------|---|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
|                            |   |               |               | NWB          | DB           | GT           | WBGT         | WBGT Average |
| 1.                         | บริเวณอาคารหม้อไอน้ำ<br>- ยืนเช็กแก๊กอ้อยในเตาหม้อไอน้ำ<br>และเดินตรวจสอบเครื่องจักร (60 นาที)<br>- นั่งพัก (60 นาที)                             | 20/09/23      | 10.00-12.00   | 28.0<br>28.0 | 32.0<br>32.0 | 33.0<br>33.0 | 29.5<br>29.5 | 29.5         |
| 2.                         | บริเวณเครื่องกำเนิดไฟฟ้า<br>- เดินตรวจสอบเครื่องจักรและจุดบันทึก (30 นาที)<br>- นั่งควบคุมเครื่องจักรผ่านระบบคอมพิวเตอร์ และทำงานเอกสาร (90 นาที) | 20/09/23      | 10.00-12.00   | 29.0<br>19.8 | 34.0<br>25.0 | 36.0<br>26.0 | 31.1<br>21.7 | 24.1         |
| Standard <sup>(1)(2)</sup> |   |               |               | -            | -            | -            | -            | 34.0         |

Standard : <sup>(1)</sup> Ministry of Labour's Regulation (2016) (B.E. 2559) ; Light Work Load

<sup>(2)</sup> Notification of the Ministry of Industry (2003)(B.E. 2546) ; Light Work Load

Remark : Indoor (inside building or workplace) :WBGT = 0.7 NWB + 0.3 GT

When :

NWB = Natural Wet Bulb Thermometer

DB = Dry Bulb Thermometer

GT = Globe Thermometer

WBGT = Wet Bulb Globe Temperature

$$\text{WBGT Average} = \frac{(\text{WBGT}_1 \times t_1) + (\text{WBGT}_2 \times t_2) + \dots + (\text{WBGT}_n \times t_n)}{t_1 + t_2 + \dots + t_n}$$

*Suphakchaya Y.*

Suphakchaya Yoonim



*Somchai P.*

Somchai Piyavorasakul  
General Manager

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## TEST REPORT

**Analysis No.** : R23-2147  
**Received Date** : 10/07/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2307-W0179 = clear  
2307-W0180 = clear

**Report Date** : 21/07/23  
**Analysis Date** : 08-14/07/23  
**Job No.** : S660153/July  
**Sampling Date** : 08/07/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method  | Result              |                           | Standard | Analysis<br>Date |
|------|-----------|------|---|---------------------|---------------------------|----------|------------------|
|      |           |      |   | คุณภาพน้ำฝน         |                           |          |                  |
|      |           |      |   | 2307-W0179          | 2307-W0180                |          |                  |
|      |           |      |   | ภายในพื้นที่โครงการ | อุทยานประวัติศาสตร์ศรีเทพ |          |                  |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                        | 7.59                | 7.72                      | 6.5-8.5  | 08/07/23         |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 °C<br>(SM 2540 F)          | < 2.5               | < 2.5                     | -        | 14/07/23         |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)           | 4.67                | 4.30                      | 50       | 13/07/23         |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E) | 5.20                | 5.02                      | 250      | 14/07/23         |

**Remarks** : ภายในพื้นที่โครงการ = 47P 0726381 UTM 1710681  
อุทยานประวัติศาสตร์ศรีเทพ = 47P 0729233 UTM 1710683

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Warecrut Prachumdaeng  
Chief of Laboratory

21/07/23



Approved by

Mrs. Pornip Pethshee  
Laboratory Manager

21/07/23

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## TEST REPORT

**Analysis No.** : R23-2147  
**Received Date** : 10/07/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2307-W0181 = clear  
2307-W0182 = clear

**Report Date** : 21/07/23  
**Analysis Date** : 08-14/07/23  
**Job No.** : S660153/July  
**Sampling Date** : 08/07/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method  | Result             |                      | Standard | Analysis<br>Date |
|------|-----------|------|---|--------------------|----------------------|----------|------------------|
|      |           |      |   | คุณภาพน้ำฝน        |                      |          |                  |
|      |           |      |   | 2307-W0181         | 2307-W0182           |          |                  |
|      |           |      |   | วัดแม่น้ำแควป่าสัก | โรงเรียนบ้านบึงนางาน |          |                  |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                        | 7.68               | 7.80                 | 6.5-8.5  | 08/07/23         |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 °C<br>(SM 2540 F)          | < 2.5              | < 2.5                | -        | 14/07/23         |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)           | 4.08               | 3.83                 | 50       | 13/07/23         |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E) | 3.30               | 1.99                 | 250      | 14/07/23         |

**Remarks** : วัดแม่น้ำแควป่าสัก = 47P 0725909 UTM 1710479  
โรงเรียนบ้านบึงนางาน = 47P 0729287 UTM 1712053

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory



Approved by

Mrs. Pomtip Pethshee  
Laboratory Manager

END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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## TEST REPORT

**Analysis No.** : R23-2506  
**Received Date** : 10/08/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2308-W0282 = clear/slight black sediment  
2308-W0283 = clear/slight black sediment

**Report Date** : 22/08/23  
**Analysis Date** : 09-16/08/23  
**Job No.** : S660153/Aug  
**Sampling Date** : 09/08/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method  | Result              |                           | Standard | Analysis Date |
|------|-----------|------|---|---------------------|---------------------------|----------|---------------|
|      |           |      |   | คุณภาพน้ำฝน         |                           |          |               |
|      |           |      |   | 2308-W0282          | 2308-W0283                |          |               |
|      |           |      |   | ภายในพื้นที่โครงการ | อุทยานประวัติศาสตร์ศรีเทพ |          |               |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                        | 8.40                | 8.34                      | 6.5-8.5  | 09/08/23      |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 °C<br>(SM 2540 F)          | < 2.5               | < 2.5                     | -        | 15/08/23      |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)           | 7.18                | 3.41                      | 50       | 16/08/23      |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E) | 0.72                | < 0.02                    | 250      | 16/08/23      |

**Remarks** : ภายในพื้นที่โครงการ = 47P 0726381 UTM 1710681  
อุทยานประวัติศาสตร์ศรีเทพ = 47P 0729233 UTM 1710683

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

22/08/23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

22/08/23

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## TEST REPORT

**Analysis No.** : R23-2506  
**Received Date** : 10/08/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2308-W0284 = clear/slight black sediment  
2308-W0285 = clear/slight black sediment

**Report Date** : 22/08/23  
**Analysis Date** : 09-16/08/23  
**Job No.** : S660153/Aug  
**Sampling Date** : 09/08/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method   | Result             |                      | Standard | Analysis<br>Date |
|------|-----------|------|--|--------------------|----------------------|----------|------------------|
|      |           |      |  | คุณภาพน้ำฝน        |                      |          |                  |
|      |           |      |  | 2308-WW0284        | 2308-WW0285          |          |                  |
|      |           |      |  | วัดแม่น้ำแควป่าสัก | โรงเรียนบ้านบึงนางาม |          |                  |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                               | 8.35               | 8.36                 | 6.5-8.5  | 09/08/23         |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 <sup>0</sup> C<br><br>(SM 2540 F) | < 2.5              | < 2.5                | -        | 15/08/23         |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)                  | 7.09               | 7.62                 | 50       | 16/08/23         |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)        | < 0.02             | < 0.02               | 250      | 16/08/23         |

**Remarks** : วัดแม่น้ำแควป่าสัก = 47P 0725909 UTM 1710479  
โรงเรียนบ้านบึงนางาม = 47P 0729287 UTM 1712053  
**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017  
**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
22/08/23



Approved by

Mrs. Porntip Pethshee  
Laboratory Manager  
22/08/23

END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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## TEST REPORT

**Analysis No.** : R23-3014  
**Received Date** : 25/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2309-W0676 = clear/slight black sediment  
2309-W0677 = clear/slight black sediment

**Report Date** : 12/10/23  
**Analysis Date** : 22-27/09/23  
**Job No.** : S660153/Sep  
**Sampling Date** : 22/09/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method  | Result              |                           | Standard | Analysis Date |
|------|-----------|------|---|---------------------|---------------------------|----------|---------------|
|      |           |      |   | คุณภาพน้ำฝน         |                           |          |               |
|      |           |      |   | 2309-W0676          | 2309-W0677                |          |               |
|      |           |      |   | ภายในพื้นที่โครงการ | อุทยานประวัติศาสตร์ศรีเทพ |          |               |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                        | 8.43                | 8.37                      | 6.5-8.5  | 22/09/23      |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 °C<br>(SM 2540 F)          | < 2.5               | < 2.5                     | -        | 25/09/23      |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)           | 3.46                | 3.43                      | 50       | 26/09/23      |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E) | < 0.02              | < 0.02                    | 250      | 27/09/23      |

**Remarks** : ภายในพื้นที่โครงการ = 47P 0726381 UTM 1710681  
อุทยานประวัติศาสตร์ศรีเทพ = 47P 0729233 UTM 1710683

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
12/10/23



Approved by

Mrs. Pomtip Pethshee  
Laboratory Manager  
12/10/23

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## TEST REPORT

**Analysis No.** : R23-3014  
**Received Date** : 25/09/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2309-W0678 = clear/slight black sediment  
2309-W0679 = clear/slight black sediment

**Report Date** : 12/10/23  
**Analysis Date** : 22-27/09/23  
**Job No.** : S660153/Sep  
**Sampling Date** : 22/09/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method  | Result             |                      | Standard | Analysis<br>Date |
|------|-----------|------|---|--------------------|----------------------|----------|------------------|
|      |           |      |   | คุณภาพน้ำฝน        |                      |          |                  |
|      |           |      |   | 2309-W0678         | 2309-W0679           |          |                  |
|      |           |      |   | วัดแม่น้ำแควป่าสัก | โรงเรียนบ้านบึงนาจาน |          |                  |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                        | 8.39               | 7.74                 | 6.5-8.5  | 22, 26/09/23     |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 °C<br>(SM 2540 F)          | < 2.5              | < 2.5                | -        | 25/09/23         |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)           | 3.16               | 3.00                 | 50       | 26/09/23         |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E) | < 0.02             | 4.46                 | 250      | 27/09/23         |

**Remarks** : วัดแม่น้ำแควป่าสัก = 47P 0725909 UTM 1710479, Analysis Date of pH = 22/09/23

โรงเรียนบ้านบึงนาจาน = 47P 0729287 UTM 1712053, Analysis Date of pH = 26/09/23

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

12/10/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

12/10/23

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## TEST REPORT

**Analysis No.** : R23-3731  
**Received Date** : 09/10/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2310-W0304 = clear  
2310-W0305 = clear

**Report Date** : 23/11/23  
**Analysis Date** : 07-12/10/23  
**Job No.** : S660153/Oct  
**Sampling Date** : 07/10/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method  | Result              |                           | Standard | Analysis Date |
|------|-----------|------|---|---------------------|---------------------------|----------|---------------|
|      |           |      |   | คุณภาพน้ำฝน         |                           |          |               |
|      |           |      |   | 2310-W0304          | 2310-W0305                |          |               |
|      |           |      |   | ภายในพื้นที่โครงการ | อุทยานประวัติศาสตร์ศรีเทพ |          |               |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                        | 7.94                | 8.40                      | 6.5-8.5  | 07/10/23      |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 °C<br><br>(SM 2540 F)      | < 2.5               | < 2.5                     | -        | 11/10/23      |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)           | 1.01                | 0.35                      | 50       | 12/10/23      |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E) | 2.15                | < 0.02                    | 250      | 12/10/23      |

**Remarks** : ภายในพื้นที่โครงการ = 47P 0726381 UTM 1710681  
อุทยานประวัติศาสตร์ศรีเทพ = 47P 0729233 UTM 1710683

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Wareerut Prachumidaeng  
Chief of Laboratory

23/11/23



Approved by

Mrs. Pomtip Pethshee  
Laboratory Manager

23/11/23

“Refer to Analysis No. R23-3229 and follow to QF-10-02 No. 037/23 in order to edit standard on page 3-4”

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 6 of 6

## TEST REPORT

**Analysis No.** : R23-3731  
**Received Date** : 09/10/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2310-W0306 = clear  
 2310-W0307 = clear

**Report Date** : 23/11/23  
**Analysis Date** : 07-12/10/23  
**Job No.** : S660153/Oct  
**Sampling Date** : 07/10/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method  | Result             |                       | Standard | Analysis Date |
|------|-----------|------|---|--------------------|-----------------------|----------|---------------|
|      |           |      |   | คุณภาพน้ำฝน        |                       |          |               |
|      |           |      |   | 2310-W0306         | 2310-W0307            |          |               |
|      |           |      |   | วัดแม่น้ำแควป่าสัก | โรงเรียนบ้านบึงนางจาน |          |               |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                        | 7.97               | 7.86                  | 6.5-8.5  | 07/10/23      |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 °C<br>(SM 2540 F)          | < 2.5              | < 2.5                 | -        | 11/10/23      |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)           | 0.92               | 1.12                  | 50       | 12/10/23      |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E) | 3.41               | 2.80                  | 250      | 12/10/23      |

**Remarks** : วัดแม่น้ำแควป่าสัก = 47P 0725909 UTM 1710479  
 โรงเรียนบ้านบึงนางจาน = 47P 0729287 UTM 1712053

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Wareerut Prachumdaeng  
 Chief of Laboratory  
 23.11.23



Approved by

Mrs. Pornpip Pethshee  
 Laboratory Manager  
 23.11.23

"Refer to Analysis No. R23-3229 and follow to QF-10-02 No. 037/23 in order to edit standard on page 3-4"

..... END OF REPORT .....

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 5 of 6

## TEST REPORT

**Analysis No.** : R23-3756  
**Received Date** : 22/11/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2311-W0584 = clear/slight black sediment  
 2311-W0585 = clear/slight black sediment

**Report Date** : 01/12/23  
**Analysis Date** : 21-24/11/23  
**Job No.** : S660153/Nov  
**Sampling Date** : 21/11/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method  | Result              |                           | Standard | Analysis Date |
|------|-----------|------|---|---------------------|---------------------------|----------|---------------|
|      |           |      |   | คุณภาพน้ำฝน         |                           |          |               |
|      |           |      |   | 2311-W0584          | 2311-W0585                |          |               |
|      |           |      |   | ภายในพื้นที่โครงการ | อุทยานประวัติศาสตร์ศรีเทพ |          |               |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                        | 8.45                | 8.33                      | 6.5-8.5  | 21/11/23      |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 °C<br>(SM 2540 F)          | < 2.5               | < 2.5                     | -        | 24/11/23      |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)           | 3.48                | 2.15                      | 50       | 23/11/23      |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E) | 4.42                | 23.65                     | 250      | 23/11/23      |

**Remarks** : ภายในพื้นที่โครงการ = 47P 0726381 UTM 1710681  
 อุทยานประวัติศาสตร์ศรีเทพ = 47P 0729233 UTM 1710683

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Wareerut Prachumdaeng  
 Chief of Laboratory

01/12/23



Approved by

Mrs. Pornpip Pethshee  
 Laboratory Manager

01/12/23

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## TEST REPORT

**Analysis No.** : R23-3756  
**Received Date** : 22/11/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2311-W0586 = clear/slight black sediment  
2311-W0587 = clear/slight black sediment

**Report Date** : 01/12/23  
**Analysis Date** : 21-24/11/23  
**Job No.** : S660153/Nov  
**Sampling Date** : 21/11/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method  | Result             |                      | Standard | Analysis Date |
|------|-----------|------|---|--------------------|----------------------|----------|---------------|
|      |           |      |   | คุณภาพน้ำฝน        |                      |          |               |
|      |           |      |   | 2311-W0586         | 2311-W0587           |          |               |
|      |           |      |   | วัดแม่น้ำแควป่าสัก | โรงเรียนบ้านบึงนาจาน |          |               |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                        | 7.96               | 8.43                 | 6.5-8.5  | 21/11/23      |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 °C<br>(SM 2540 F)          | < 2.5              | < 2.5                | -        | 24/11/23      |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)           | 3.07               | 3.56                 | 50       | 23/11/23      |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E) | 4.50               | 4.05                 | 250      | 23/11/23      |

**Remarks** : วัดแม่น้ำแควป่าสัก = 47P 0725909 UTM 1710479  
โรงเรียนบ้านบึงนาจาน = 47P 0729287 UTM 1712053

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
21/12/23



Approved by

Mrs. Pornpip Pethshee  
Laboratory Manager  
01/12/23

..... END OF REPORT .....

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## TEST REPORT

**Analysis No.** : R23-3906  
**Received Date** : 06/12/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอศรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2312-W0129 = clear/slight white sediment  
2312-W0130 = clear/slight white sediment

**Report Date** : 15/12/23  
**Analysis Date** : 04-11/12/23  
**Job No.** : S660153/Dec  
**Sampling Date** : 04/12/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method  | Result              |                           | Standard | Analysis Date |
|------|-----------|------|---|---------------------|---------------------------|----------|---------------|
|      |           |      |   | คุณภาพน้ำฝน         |                           |          |               |
|      |           |      |   | 2312-W0129          | 2312-W0130                |          |               |
|      |           |      |   | ภายในพื้นที่โครงการ | อุทยานประวัติศาสตร์ศรีเทพ |          |               |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                        | 7.68                | 7.53                      | 6.5-8.5  | 04/12/23      |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 °C<br>(SM 2540 F)          | < 2.5               | < 2.5                     | -        | 11/12/23      |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)           | 3.53                | 3.84                      | 50       | 08/12/23      |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E) | 2.25                | 3.18                      | 250      | 07/12/23      |

**Remarks** : ภายในพื้นที่โครงการ = 47P 0726381 UTM 1710681  
อุทยานประวัติศาสตร์ศรีเทพ = 47P 0729233 UTM 1710683

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory

15/12/23



Approved by

Mrs. Pornpip Pethshee  
Laboratory Manager

15/12/23

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Thai Environmental Technic Limited

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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E-mail : admin@tet1995.com

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 6 of 6

## TEST REPORT

**Analysis No.** : R23-3906  
**Received Date** : 06/12/23  
**Customer** : Technical Division of Thai Environmental Technic Limited  
 For บริษัท ไทยรุ่งเรืองผลิตไฟฟ้า จำกัด  
 โครงการ โรงไฟฟ้าชีวมวล สาขา 2  
**Address** : 124 หมู่ 9 ตำบลศรีเทพ อำเภอสรีเทพ จังหวัดเพชรบูรณ์ 67170  
**Contact** : Tel. (056) 798 007-8 Fax. (056) 798 017  
**Sample Conditions** : 2312-W0131 = clear/slight white sediment  
 2312-W0132 = clear/slight white sediment

**Report Date** : 15/12/23  
**Analysis Date** : 04-11/12/23  
**Job No.** : S660153/Dec  
**Sampling Date** : 04/12/23  
**Sampling By** : TET  
**Type of Sample** : Water

| Item | Parameter | Unit | Method  | Result             |                       | Standard | Analysis Date |
|------|-----------|------|---|--------------------|-----------------------|----------|---------------|
|      |           |      |   | คุณภาพน้ำฝน        |                       |          |               |
|      |           |      |   | 2312-W0131         | 2312-W0132            |          |               |
|      |           |      |   | วัดแม่น้ำแควป่าสัก | โรงเรียนบ้านปึงนางจาน |          |               |
| 1    | pH        | -    | Electrometric Method (SM 4500 B)                        | 7.62               | 7.53                  | 6.5-8.5  | 04/12/23      |
| 2    | SS        | mg/L | Volumetric, Dried at 103-105 °C<br>(SM 2540 F)          | < 2.5              | < 2.5                 | -        | 11/12/23      |
| 3    | Nitrate   | mg/L | Cadmium Reduction (SM 4500-NO <sub>3</sub> E)           | 3.29               | 3.19                  | 50       | 08/12/23      |
| 4    | Sulphate  | mg/L | Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E) | 4.99               | 1.27                  | 250      | 07/12/23      |

**Remarks** : วัดแม่น้ำแควป่าสัก = 47P 0725909 UTM 1710479  
 โรงเรียนบ้านบึงนางจาน = 47P 0729287 UTM 1712053

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23<sup>rd</sup> Edition, 2017

**Standard** : Notification of the Department of Health (2020) (B.E. 2563)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

15/12/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

15/12/23

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