



บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี้ จำกัด
Thip Phichit Hybrid Energy Co., Ltd.

ภาคผนวก ค

รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม



TEST REPORT

Analysis No. : R23-1230
Received Date : 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150
Contact : -

Report Date : 12/05/23
Analysis Date : 20-28/04/23
Job No. : S660183/Apr
Sampling By : TET
Type of Sample : Stack

Sampling Conditions :

| Item | Description | Unit | Result |
|------|---|--------------------|------------------|
| | | | Normal Operation |
| | | | 2304-AS1047 |
| | | | Boiler |
| 1 | Sampling Date | - | 20/04/23 |
| 2 | Stack Diameter | m | Ø 2.50 |
| 3 | Temperature ⁽¹⁾ | °C | 147 |
| 4 | Stack Gas Velocity ⁽¹⁾ | m/s | 10.0 |
| 5 | Flow Rate ⁽¹⁾ | m ³ /s | 49.1 |
| 6 | Flow Rate ⁽²⁾ | Nm ³ /s | 27.7 |
| 7 | Moisture Content ⁽¹⁾ | % | 19.18 |
| 8 | O ₂ Rate ⁽¹⁾ , dry basis | % | 5.2 |
| 9 | CO ₂ Rate ⁽¹⁾ , dry basis | % | 14.3 |
| 10 | Absolute Stack Pressure ⁽¹⁾ | mm.Hg | 747.6 |

| Parameter | Unit | Method | Result | | Standard ^(A) (With Combustion) | Analysis Date |
|------------------------------------|--------------------|--|-----------------------|-----------------------|--|------------------|
| | | | Normal Operation | | | |
| | | | 2304-AS1047 | | | |
| | | | Boiler | | | |
| Particulate | mg/Nm ³ | Isokinetic, Gravimetric Method (US.EPA Method 5, Dec 07, 2020) | 4.5 ⁽²⁾ | 3.9 ⁽³⁾ | 120 | 26-28/04/23 |
| NO _x as NO ₂ | ppm | Instrument Analyzer Method (US.EPA Method 7E, Oct 07, 2020) | 121.60 ⁽²⁾ | 107.66 ⁽³⁾ | 200 | 20/04/23 |
| SO ₂ | ppm | Instrument Analyzer Method (US.EPA Method 6C, Aug 2, 2017) | 11.30 ⁽²⁾ | 10.00 ⁽³⁾ | 60 | 20/04/23 |
| Opacity ⁽⁴⁾ | % | Ringelmann's Method | 4.58 | 4.58 | 10 ^(B) | 20/04/23 |

Remarks : Boiler = 47Q 0662015 UTM 1780012

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

Source : ไม้สับ+แกลบ (ปริมาณการใช้เชื้อเพลิง 32 ตัน/ชั่วโมง, อัตราการผลิตไอน้ำ 94 ตัน/ชั่วโมง, อัตราการผลิตไฟฟ้า 21 MW)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

๓-236-๗-7201

12.05.23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

๓-236-๗-6047

12.05.23

- PRIVATE LABORATORY REGISTERED NO. ๓-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 14

TEST REPORT

Analysis No. : R23-1230
Received Date : 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
 For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
 โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Contact : -

Report Date : 12/05/23
Analysis Date : 20-28/04/23
Job No. : S660183/Apr
Sampling By : TET
Type of Sample : Stack

Sampling Conditions :

| Item | Description | Unit | Result |
|------|---|--------------------|------------------|
| | | | Normal Operation |
| | | | 2304-AS147 |
| | | | Boiler |
| 1 | Sampling Date | - | 20/04/23 |
| 2 | Stack Diameter | m | Ø 2.50 |
| 3 | Temperature ⁽¹⁾ | °C | 147 |
| 4 | Stack Gas Velocity ⁽¹⁾ | m/s | 10.0 |
| 5 | Flow Rate ⁽¹⁾ | m ³ /s | 49.1 |
| 6 | Flow Rate ⁽²⁾ | Nm ³ /s | 27.7 |
| 7 | Moisture Content ⁽¹⁾ | % | 19.18 |
| 8 | O ₂ Rate ⁽¹⁾ , dry basis | % | 5.2 |
| 9 | CO ₂ Rate ⁽¹⁾ , dry basis | % | 14.3 |
| 10 | Absolute Stack Pressure ⁽¹⁾ | mm.Hg | 747.6 |

| Parameter | Unit | Method | Result | | | Standard (With Combustion) | | | Analysis Date |
|------------------------------------|--------------------|---|-----------------------|------------|-----------------------|-------------------------------|------------|-------------------|------------------|
| | | | Normal Operation | | | | | | |
| | | | 2304-AS147 | | | | | | |
| | | | Boiler | | | (A) | (B) | | |
| Particulate | mg/Nm ³ | Isokinetic, Gravimetric Method (US.EPA Method 5, Dec 07, 2020) | 4.5 ⁽²⁾ | 0.12 (g/s) | 3.9 ⁽³⁾ | 85.52 | 2.87 (g/s) | 120 | 26-28/04/23 |
| NO _x as NO ₂ | ppm | Instrument Analyzer Method (US.EPA Method 7E, Oct 07, 2020) | 121.60 ⁽²⁾ | 6.34 (g/s) | 107.66 ⁽³⁾ | 137.88 | 8.71 (g/s) | 200 | 20/04/23 |
| SO ₂ | ppm | Instrument Analyzer Method (US.EPA Method 6C, Aug 2, 2017) | 11.30 ⁽²⁾ | 0.82 (g/s) | 10.00 ⁽³⁾ | 20.72 | 1.82 (g/s) | 60 | 20/04/23 |
| Opacity ⁽⁴⁾ | % | Ringelmann's Method | 4.58 | - | 4.58 | - | - | 10 ^(C) | 20/04/23 |

Remarks : Boiler = 47Q 0662015 UTM 1780012

- (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 Thip Phichit Hybrid Energy Co., Ltd.

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

(C) Notification of the Ministry of Natural Resources and Environment (2005) (B.E. 2548), (opacity).

Source : ไม่สับ+แก๊ส (ปริมาณการใช้เชื้อเพลิง 32 ตัน/ชั่วโมง, อัตราการผลิตไอน้ำ 94 ตัน/ชั่วโมง, อัตราการผลิตไฟฟ้า 21 MW)

Reviewed by

Ms. Wareerut Prachumdaeng
 Chief of Laboratory
 12.05.23



Approved by

Mrs. Pornpip Pethshee
 Laboratory Manager
 12.05.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1230
Received Date : 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150
Contact : -

Report Date : 12/05/23
Analysis Date : 26-28/04/23
Job No. : S660183/Apr
Sampling By : TET
Type of Sample : Stack

Sampling Conditions :

| Item | Description | Unit | Result |
|------|---|--------------------|-------------|
| | | | Soot Blow |
| | | | 2304-AS1048 |
| | | | Boiler |
| 1 | Sampling Date | - | 20/04/23 |
| 2 | Stack Diameter | m | Ø 2.50 |
| 3 | Temperature ⁽¹⁾ | °C | 147 |
| 4 | Stack Gas Velocity ⁽¹⁾ | m/s | 11.8 |
| 5 | Flow Rate ⁽¹⁾ | m ³ /s | 57.9 |
| 6 | Flow Rate ⁽²⁾ | Nm ³ /s | 32.8 |
| 7 | Moisture Content ⁽¹⁾ | % | 18.87 |
| 8 | O ₂ Rate ⁽¹⁾ , dry basis | % | 7.6 |
| 9 | CO ₂ Rate ⁽¹⁾ , dry basis | % | 12.1 |
| 10 | Absolute Stack Pressure ⁽¹⁾ | mm.Hg | 747.6 |

| Parameter | Unit | Method | Result | | Standard (With Combustion) | Analysis Date |
|-------------|--------------------|--|---------------------|---------------------|-------------------------------|------------------|
| | | | Soot Blow | | | |
| | | | 2304-AS1048 | | | |
| | | | Boiler | | | |
| Particulate | mg/Nm ³ | Isokinetic, Gravimetric Method (US.EPA Method 5, Dec 07, 2020) | 25.6 ⁽²⁾ | 26.7 ⁽³⁾ | 120 | 26-28/04/23 |

Remarks : Boiler = 47Q 0662015 UTM 1780012

(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 : ไนสับ+แกลบ (ปริมาณการใช้เชื้อเพลิง 32 ตัน/ชั่วโมง, อัตราการผลิตไอน้ำ 94 ตัน/ชั่วโมง, อัตราการผลิตไฟฟ้า 21 MW)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
๓-๒๓๖-๓-๗๒๐๑
12/05/23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
๓-๒๓๖-๓-๖๐๔๗
12/05/23

- PRIVATE LABORATORY REGISTERED NO. ๓-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1230
Received Date : 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน จังหวัดพิจิตร 66150
Contact : -

Report Date : 12/05/23
Analysis Date : 26-28/04/23
Job No. : S660183/Apr
Sampling By : TET
Type of Sample : Stack

Sampling Conditions :

| Item | Description | Unit | Result |
|------|---|--------------------|-------------|
| | | | Soot Blow |
| | | | 2304-AS1048 |
| | | | Boiler |
| 1 | Sampling Date | - | 20/04/23 |
| 2 | Stack Diameter | m | Ø 2.50 |
| 3 | Temperature ⁽¹⁾ | °C | 147 |
| 4 | Stack Gas Velocity ⁽¹⁾ | m/s | 11.8 |
| 5 | Flow Rate ⁽¹⁾ | m ³ /s | 57.9 |
| 6 | Flow Rate ⁽²⁾ | Nm ³ /s | 32.8 |
| 7 | Moisture Content ⁽¹⁾ | % | 18.87 |
| 8 | O ₂ Rate ⁽¹⁾ , dry basis | % | 7.6 |
| 9 | CO ₂ Rate ⁽¹⁾ , dry basis | % | 12.1 |
| 10 | Absolute Stack Pressure ⁽¹⁾ | mm.Hg | 747.6 |

| Parameter | Unit | Method | Result | | | Standard (With Combustion) | | | Analysis Date |
|-------------|--------------------|---|---------------------|------------|---------------------|-------------------------------|------------|-----|------------------|
| | | | Soot Blow | | | | | | |
| | | | 2304-AS1048 | | | | | | |
| | | | Boiler | | | (A) | (B) | | |
| Particulate | mg/Nm ³ | Isokinetic, Gravimetric Method (US.EPA Method 5, Dec 07, 2020) | 25.6 ⁽²⁾ | 0.84 (g/s) | 26.7 ⁽³⁾ | 102.63 | 3.45 (g/s) | 120 | 26-28/04/23 |

Remarks : Boiler = 47Q 0662015 UTM 1780012

(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 Thip Pichit Hybrid Energy Co., Ltd.

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

Source : ไม้สับ+แกลบ (ปริมาณการใช้เชื้อเพลิง 32 ตัน/ชั่วโมง, อัตราการผลิตไอน้ำ 94 ตัน/ชั่วโมง, อัตราการผลิตไฟฟ้า 21 MW)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
12.05.23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
12.05.23



TEST REPORT

Analysis No. : R23-1230
Received Date : 26-27/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Contact : -

Report Date : 12/05/23
Analysis Date : 26/04-02/05/23
Job No. : S660183/Apr
Sampling By : TET
Type of Sample : Ambient Air

| Sampling Point | Sample No. | Sampling Date | Result | | |
|---|-------------|---------------|-----------------------------|-------------------------------|--------------------------------|
| | | | TSP (mg/m ³) | PM-10 (mg/m ³) | PM-2.5 (µg/m ³) |
| วัดโคกกระโดน (47Q 0664427 UTM 1779141) | 2304-AA1049 | 19-20/04/23 | 0.088 | 0.040 | 36 |
| | 2304-AA1053 | 20-21/04/23 | 0.103 | 0.062 | 41 |
| | 2304-AA1057 | 21-22/04/23 | 0.132 | 0.083 | 42 |
| | 2304-AA1061 | 22-23/04/23 | 0.095 | 0.050 | 37 |
| | 2304-AA1065 | 23-24/04/23 | 0.109 | 0.050 | 19 |
| | 2304-AA1069 | 24-25/04/23 | 0.120 | 0.068 | 32 |
| | 2304-AA1136 | 25-26/04/23 | 0.099 | 0.045 | 17 |
| บ้านหนองเครือชูด (47Q 0659924 UTM 1781079) | 2304-AA1050 | 19-20/04/23 | 0.091 | 0.048 | 42 |
| | 2304-AA1054 | 20-21/04/23 | 0.099 | 0.055 | 42 |
| | 2304-AA1058 | 21-22/04/23 | 0.170 | 0.072 | 41 |
| | 2304-AA1062 | 22-23/04/23 | 0.130 | 0.056 | 37 |
| | 2304-AA1066 | 23-24/04/23 | 0.142 | 0.038 | 16 |
| | 2304-AA1070 | 24-25/04/23 | 0.119 | 0.050 | 22 |
| | 2304-AA1137 | 25-26/04/23 | 0.124 | 0.040 | 19 |
| Standard ⁽¹⁾ | | | 0.33 | 0.12 | 50 ⁽²⁾ |

Analysis Date : TSP, PM-10 (2304-AA1049, 2304-AA1050, 2304-AA1053, 2304-AA1054, 2304-AA1057, 2304-AA1058, 2304-AA1061, 2304-AA1062, 2304-AA1065, 2304-AA1066, 2304-AA1069, 2304-AA1070)/26-28/04/23, (2304-AA1136, 2304-AA1137)/27/04-02/05/23
PM-2.5 (2304-AA1049, 2304-AA1050, 2304-AA1053, 2304-AA1054, 2304-AA1057, 2304-AA1058, 2304-AA1061, 2304-AA1062, 2304-AA1065, 2304-AA1066, 2304-AA1069, 2304-AA1070)/26-28/04/23, (2304-AA1136, 2304-AA1137)/28/04-02/05/23

Method : TSP = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix B)
PM-10 = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix J)
PM-2.5 = Gravimetric Method (US.EPA 40 CFR Part 50)

Standard (1) Notification of the National Environment Board No. 10 (1995) (B.E. 2538) and No. 24 (2004) (B.E. 2547); 24-hr. average value
(2) Notification of the National Environment Board (2022) (B.E. 2565), 24-hr. average value.

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

12.05.23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

12.05.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1230
Received Date : 26-27/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150
Contact : -

Report Date : 12/05/23
Analysis Date : 26/04-02/05/23
Job No. : S660183/Apr
Sampling By : TET
Type of Sample : Ambient Air

| Sampling Point | Sample No. | Sampling Date | Result | | |
|--|-------------|---------------|-----------------------------|-------------------------------|--------------------------------|
| | | | TSP (mg/m ³) | PM-10 (mg/m ³) | PM-2.5 (µg/m ³) |
| โรงเรียนวัดบางเบน (47Q 0663580 UTM 1783268) | 2304-AA1051 | 19-20/04/23 | 0.081 | 0.040 | 38 |
| | 2304-AA1055 | 20-21/04/23 | 0.102 | 0.042 | 39 |
| | 2304-AA1059 | 21-22/04/23 | 0.105 | 0.060 | 37 |
| | 2304-AA1063 | 22-23/04/23 | 0.085 | 0.052 | 30 |
| | 2304-AA1067 | 23-24/04/23 | 0.078 | 0.045 | 15 |
| | 2304-AA1071 | 24-25/04/23 | 0.091 | 0.043 | 20 |
| | 2304-AA1138 | 25-26/04/23 | 0.077 | 0.028 | 17 |
| วัดหนองกะทอ (47Q 0661595 UTM 1779216) | 2304-AA1052 | 19-20/04/23 | 0.081 | 0.040 | 39 |
| | 2304-AA1056 | 20-21/04/23 | 0.097 | 0.052 | 42 |
| | 2304-AA1060 | 21-22/04/23 | 0.089 | 0.047 | 39 |
| | 2304-AA1064 | 22-23/04/23 | 0.074 | 0.040 | 32 |
| | 2304-AA1068 | 23-24/04/23 | 0.065 | 0.049 | 16 |
| | 2304-AA1072 | 24-25/04/23 | 0.072 | 0.044 | 25 |
| | 2304-AA1139 | 25-26/04/23 | 0.065 | 0.038 | 18 |
| Standard ⁽¹⁾ | | | 0.33 | 0.12 | 50 ⁽²⁾ |

Analysis Date : TSP, PM-10 (2304-AA1051, 2304-AA1052, 2304-AA1055, 2304-AA1056, 2304-AA1059, 2304-AA1060, 2304-AA1063, 2304-AA1064, 2304-AA1067, 2304-AA1068, 2304-AA1071, 2304-AA1072)/26-28/04/23, (2304-AA1138, 2304-AA1139)/27/04-02/05/23
PM-2.5 (2304-AA1051, 2304-AA1052, 2304-AA1055, 2304-AA1056, 2304-AA1059, 2304-AA1060, 2304-AA1063, 2304-AA1064, 2304-AA1067, 2304-AA1068, 2304-AA1071, 2304-AA1072)/26-28/04/23, (2304-AA1138, 2304-AA1139)/28/04-02/05/23

Method : TSP = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix B)
PM-10 = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix J)
PM-2.5 = Gravimetric Method (US.EPA 40 CFR Part 50)

Standard (1) Notification of the National Environment Board No. 10 (1995) (B.E. 2538) and No. 24 (2004) (B.E. 2547); 24-hr. average value
(2) Notification of the National Environment Board (2022) (B.E. 2565); 24-hr. average value

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

12.05.23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

12.05.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1230
Received Date : 26-27/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -

Report Date : 12/05/23
Analysis Date : 26/04-02/05/23
Job No. : S660183/Apr
Sampling By : TET
Type of Sample : Ambient Air

| Sampling Point | Sample No. | Sampling Date | Result | | Analysis Date |
|---|-------------|---------------|-----------------------------|-------------------------------|----------------|
| | | | TSP (mg/m ³) | PM-10 (mg/m ³) | |
| ภายในต่ายลานกองเก็บเชื้อเพลิง (47Q 0662056 UTM 1780225) | 2304-AA1073 | 19-20/04/23 | 0.622 | 0.234 | 26-28/04/23 |
| | 2304-AA1075 | 20-21/04/23 | 0.514 | 0.187 | 26-28/04/23 |
| | 2304-AA1077 | 21-22/04/23 | 0.881 | 0.348 | 26-28/04/23 |
| | 2304-AA1079 | 22-23/04/23 | 0.901 | 0.377 | 26-28/04/23 |
| | 2304-AA1081 | 23-24/04/23 | 1.368 | 0.742 | 26-28/04/23 |
| | 2304-AA1083 | 24-25/04/23 | 0.735 | 0.259 | 26-28/04/23 |
| | 2304-AA1140 | 25-26/04/23 | 1.084 | 0.467 | 27/04-02/05/23 |
| ภายนอกต่ายลานกองเก็บเชื้อเพลิง (47Q 0662064 UTM 1780209) | 2304-AA1074 | 19-20/04/23 | 0.211 | 0.085 | 26-28/04/23 |
| | 2304-AA1076 | 20-21/04/23 | 0.497 | 0.155 | 26-28/04/23 |
| | 2304-AA1078 | 21-22/04/23 | 0.787 | 0.339 | 26-28/04/23 |
| | 2304-AA1080 | 22-23/04/23 | 0.878 | 0.289 | 26-28/04/23 |
| | 2304-AA1082 | 23-24/04/23 | 1.131 | 0.172 | 26-28/04/23 |
| | 2304-AA1084 | 24-25/04/23 | 0.656 | 0.203 | 26-28/04/23 |
| | 2304-AA1141 | 25-26/04/23 | 0.972 | 0.178 | 27/04-02/05/23 |

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
12.05.23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
12.05.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทีพีพีฟิเจอร์ โซลิวชันส์ จำกัด

Report No. : 1230/2023/1-27

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid ฟิเจอร์
(ระยะดำเนินการ)

Report Date : May 5, 2023

Sampling Date : April 19-26, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : Ambient Air

Job No. : S660183/Apr

| Item | Time | Result | | | | | | |
|-------------------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | วัดโคกกระถิ่น | | | | | | |
| | | NO ₂ (ppm) | | | | | | |
| | | 19-20/04/23 | 20-21/04/23 | 21-22/04/23 | 22-23/04/23 | 23-24/04/23 | 24-25/04/23 | 25-26/04/23 |
| 1. | 12:00-13:00 | 0.0024 | 0.0024 | 0.0029 | 0.0017 | 0.0024 | 0.0017 | 0.0024 |
| 2. | 13:00-14:00 | 0.0019 | 0.0024 | 0.0023 | 0.0027 | 0.0023 | 0.0035 | 0.0018 |
| 3. | 14:00-15:00 | 0.0026 | 0.0025 | 0.0033 | 0.0040 | 0.0030 | 0.0040 | 0.0027 |
| 4. | 15:00-16:00 | 0.0036 | 0.0028 | 0.0032 | 0.0040 | 0.0026 | 0.0037 | 0.0027 |
| 5. | 16:00-17:00 | 0.0029 | 0.0041 | 0.0034 | 0.0036 | 0.0034 | 0.0027 | 0.0021 |
| 6. | 17:00-18:00 | 0.0022 | 0.0032 | 0.0024 | 0.0024 | 0.0035 | 0.0026 | 0.0016 |
| 7. | 18:00-19:00 | 0.0015 | 0.0028 | 0.0022 | 0.0025 | 0.0029 | 0.0025 | 0.0028 |
| 8. | 19:00-20:00 | 0.0022 | 0.0029 | 0.0030 | 0.0039 | 0.0038 | 0.0023 | 0.0032 |
| 9. | 20:00-21:00 | 0.0020 | 0.0022 | 0.0027 | 0.0032 | 0.0034 | 0.0020 | 0.0034 |
| 10. | 21:00-22:00 | 0.0026 | 0.0021 | 0.0027 | 0.0034 | 0.0015 | 0.0018 | 0.0028 |
| 11. | 22:00-23:00 | 0.0020 | 0.0015 | 0.0036 | 0.0035 | 0.0024 | 0.0015 | 0.0038 |
| 12. | 23:00-00:00 | 0.0020 | 0.0015 | 0.0036 | 0.0017 | 0.0017 | 0.0020 | 0.0018 |
| 13. | 00:00-01:00 | 0.0019 | 0.0020 | 0.0036 | 0.0028 | 0.0023 | 0.0024 | 0.0034 |
| 14. | 01:00-02:00 | 0.0021 | 0.0013 | 0.0021 | 0.0022 | 0.0017 | 0.0024 | 0.0030 |
| 15. | 02:00-03:00 | 0.0011 | 0.0012 | 0.0020 | 0.0024 | 0.0026 | 0.0024 | 0.0029 |
| 16. | 03:00-04:00 | 0.0031 | 0.0017 | 0.0022 | 0.0025 | 0.0024 | 0.0029 | 0.0028 |
| 17. | 04:00-05:00 | 0.0030 | 0.0019 | 0.0032 | 0.0023 | 0.0025 | 0.0029 | 0.0023 |
| 18. | 05:00-06:00 | 0.0020 | 0.0023 | 0.0033 | 0.0022 | 0.0026 | 0.0029 | 0.0018 |
| 19. | 06:00-07:00 | 0.0031 | 0.0021 | 0.0027 | 0.0030 | 0.0032 | 0.0027 | 0.0012 |
| 20. | 07:00-08:00 | 0.0034 | 0.0019 | 0.0027 | 0.0025 | 0.0031 | 0.0022 | 0.0017 |
| 21. | 08:00-09:00 | 0.0031 | 0.0019 | 0.0030 | 0.0022 | 0.0026 | 0.0023 | 0.0029 |
| 22. | 09:00-10:00 | 0.0037 | 0.0030 | 0.0033 | 0.0021 | 0.0033 | 0.0024 | 0.0021 |
| 23. | 10:00-11:00 | 0.0033 | 0.0029 | 0.0042 | 0.0021 | 0.0019 | 0.0026 | 0.0028 |
| 24. | 11:00-12:00 | 0.0028 | 0.0027 | 0.0029 | 0.0026 | 0.0021 | 0.0020 | 0.0029 |
| Minimum | | 0.0011 | 0.0012 | 0.0020 | 0.0017 | 0.0015 | 0.0015 | 0.0012 |
| Maximum | | 0.0037 | 0.0041 | 0.0042 | 0.0040 | 0.0038 | 0.0040 | 0.0038 |
| Average | | 0.0025 | 0.0023 | 0.0029 | 0.0027 | 0.0026 | 0.0025 | 0.0025 |
| Standard ⁽¹⁾ | | 0.17 | | | | | | |

Standard : ⁽¹⁾ Notification of the National Environment Board No. 33 (2009) (B.E. 2552)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/2-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน Type of Sample : Ambient Air
จังหวัดพิจิตร 66150
Job No. : S660183/Apr

| Item | Time | Result | | | | | | |
|-------------------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | บ้านหนองเครือชูด | | | | | | |
| | | NO ₂ (ppm) | | | | | | |
| | | 19-20/04/23 | 20-21/04/23 | 21-22/04/23 | 22-23/04/23 | 23-24/04/23 | 24-25/04/23 | 25-26/04/23 |
| 1. | 14:00-15:00 | 0.0012 | 0.0007 | 0.0014 | 0.0012 | 0.0033 | 0.0024 | 0.0006 |
| 2. | 15:00-16:00 | 0.0021 | 0.0005 | 0.0007 | 0.0013 | 0.0016 | 0.0026 | 0.0009 |
| 3. | 16:00-17:00 | 0.0018 | 0.0008 | 0.0020 | 0.0027 | 0.0012 | 0.0018 | 0.0010 |
| 4. | 17:00-18:00 | 0.0023 | 0.0011 | 0.0008 | 0.0015 | 0.0012 | 0.0009 | 0.0011 |
| 5. | 18:00-19:00 | 0.0014 | 0.0017 | 0.0014 | 0.0008 | 0.0018 | 0.0015 | 0.0021 |
| 6. | 19:00-20:00 | 0.0011 | 0.0025 | 0.0012 | 0.0012 | 0.0015 | 0.0014 | 0.0024 |
| 7. | 20:00-21:00 | 0.0010 | 0.0014 | 0.0010 | 0.0019 | 0.0012 | 0.0014 | 0.0018 |
| 8. | 21:00-22:00 | 0.0009 | 0.0015 | 0.0018 | 0.0028 | 0.0007 | 0.0011 | 0.0015 |
| 9. | 22:00-23:00 | 0.0009 | 0.0013 | 0.0013 | 0.0017 | 0.0012 | 0.0010 | 0.0012 |
| 10. | 23:00-00:00 | 0.0007 | 0.0033 | 0.0014 | 0.0037 | 0.0017 | 0.0011 | 0.0012 |
| 11. | 00:00-01:00 | 0.0008 | 0.0021 | 0.0022 | 0.0012 | 0.0023 | 0.0011 | 0.0011 |
| 12. | 01:00-02:00 | 0.0009 | 0.0024 | 0.0016 | 0.0017 | 0.0016 | 0.0022 | 0.0012 |
| 13. | 02:00-03:00 | 0.0014 | 0.0016 | 0.0024 | 0.0009 | 0.0015 | 0.0028 | 0.0013 |
| 14. | 03:00-04:00 | 0.0013 | 0.0009 | 0.0024 | 0.0012 | 0.0029 | 0.0016 | 0.0017 |
| 15. | 04:00-05:00 | 0.0014 | 0.0011 | 0.0015 | 0.0010 | 0.0012 | 0.0011 | 0.0008 |
| 16. | 05:00-06:00 | 0.0012 | 0.0017 | 0.0011 | 0.0016 | 0.0007 | 0.0012 | 0.0009 |
| 17. | 06:00-07:00 | 0.0012 | 0.0018 | 0.0007 | 0.0022 | 0.0008 | 0.0023 | 0.0014 |
| 18. | 07:00-08:00 | 0.0018 | 0.0006 | 0.0009 | 0.0014 | 0.0014 | 0.0013 | 0.0005 |
| 19. | 08:00-09:00 | 0.0016 | 0.0013 | 0.0005 | 0.0016 | 0.0010 | 0.0012 | 0.0015 |
| 20. | 09:00-10:00 | 0.0013 | 0.0007 | 0.0011 | 0.0009 | 0.0011 | 0.0006 | 0.0014 |
| 21. | 10:00-11:00 | 0.0014 | 0.0006 | 0.0009 | 0.0010 | 0.0020 | 0.0008 | 0.0011 |
| 22. | 11:00-12:00 | 0.0028 | 0.0017 | 0.0015 | 0.0018 | 0.0014 | 0.0013 | 0.0011 |
| 23. | 12:00-13:00 | 0.0017 | 0.0013 | 0.0013 | 0.0023 | 0.0023 | 0.0013 | 0.0010 |
| 24. | 13:00-14:00 | 0.0021 | 0.0008 | 0.0013 | 0.0013 | 0.0024 | 0.0011 | 0.0025 |
| Minimum | | 0.0007 | 0.0005 | 0.0005 | 0.0008 | 0.0007 | 0.0006 | 0.0005 |
| Maximum | | 0.0028 | 0.0033 | 0.0024 | 0.0037 | 0.0033 | 0.0028 | 0.0025 |
| Average | | 0.0014 | 0.0014 | 0.0014 | 0.0016 | 0.0016 | 0.0015 | 0.0013 |
| Standard ⁽¹⁾ | | 0.17 | | | | | | |

Standard : ⁽¹⁾ Notification of the National Environment Board No. 33 (2009) (B.E. 2552)

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/3-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150 Type of Sample : Ambient Air
Job No. : S660183/Apr

| Item | Time | Result | | | | | | |
|-------------------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | โรงเรียนวัดบางเบน | | | | | | |
| | | NO ₂ (ppm) | | | | | | |
| | | 19-20/04/23 | 20-21/04/23 | 21-22/04/23 | 22-23/04/23 | 23-24/04/23 | 24-25/04/23 | 25-26/04/23 |
| 1. | 11:00-12:00 | 0.0024 | 0.0012 | 0.0009 | 0.0014 | 0.0023 | 0.0022 | 0.0008 |
| 2. | 12:00-13:00 | 0.0019 | 0.0014 | 0.0010 | 0.0015 | 0.0016 | 0.0018 | 0.0014 |
| 3. | 13:00-14:00 | 0.0025 | 0.0020 | 0.0009 | 0.0011 | 0.0029 | 0.0010 | 0.0022 |
| 4. | 14:00-15:00 | 0.0021 | 0.0013 | 0.0018 | 0.0014 | 0.0015 | 0.0008 | 0.0020 |
| 5. | 15:00-16:00 | 0.0027 | 0.0024 | 0.0015 | 0.0018 | 0.0026 | 0.0014 | 0.0016 |
| 6. | 16:00-17:00 | 0.0012 | 0.0038 | 0.0020 | 0.0018 | 0.0010 | 0.0012 | 0.0032 |
| 7. | 17:00-18:00 | 0.0008 | 0.0026 | 0.0011 | 0.0014 | 0.0005 | 0.0012 | 0.0030 |
| 8. | 18:00-19:00 | 0.0011 | 0.0022 | 0.0008 | 0.0010 | 0.0013 | 0.0021 | 0.0033 |
| 9. | 19:00-20:00 | 0.0008 | 0.0022 | 0.0007 | 0.0009 | 0.0010 | 0.0013 | 0.0027 |
| 10. | 20:00-21:00 | 0.0008 | 0.0020 | 0.0006 | 0.0006 | 0.0014 | 0.0026 | 0.0024 |
| 11. | 21:00-22:00 | 0.0007 | 0.0015 | 0.0006 | 0.0007 | 0.0015 | 0.0014 | 0.0021 |
| 12. | 22:00-23:00 | 0.0006 | 0.0011 | 0.0004 | 0.0015 | 0.0011 | 0.0007 | 0.0021 |
| 13. | 23:00-00:00 | 0.0007 | 0.0011 | 0.0005 | 0.0011 | 0.0009 | 0.0011 | 0.0020 |
| 14. | 00:00-01:00 | 0.0008 | 0.0008 | 0.0006 | 0.0012 | 0.0004 | 0.0018 | 0.0018 |
| 15. | 01:00-02:00 | 0.0007 | 0.0007 | 0.0011 | 0.0010 | 0.0015 | 0.0027 | 0.0023 |
| 16. | 02:00-03:00 | 0.0008 | 0.0008 | 0.0010 | 0.0014 | 0.0008 | 0.0016 | 0.0014 |
| 17. | 03:00-04:00 | 0.0017 | 0.0008 | 0.0011 | 0.0018 | 0.0011 | 0.0016 | 0.0021 |
| 18. | 04:00-05:00 | 0.0011 | 0.0019 | 0.0009 | 0.0021 | 0.0019 | 0.0011 | 0.0015 |
| 19. | 05:00-06:00 | 0.0030 | 0.0025 | 0.0009 | 0.0025 | 0.0029 | 0.0024 | 0.0017 |
| 20. | 06:00-07:00 | 0.0031 | 0.0013 | 0.0015 | 0.0018 | 0.0037 | 0.0017 | 0.0017 |
| 21. | 07:00-08:00 | 0.0031 | 0.0008 | 0.0013 | 0.0020 | 0.0037 | 0.0036 | 0.0021 |
| 22. | 08:00-09:00 | 0.0033 | 0.0009 | 0.0010 | 0.0032 | 0.0028 | 0.0025 | 0.0016 |
| 23. | 09:00-10:00 | 0.0025 | 0.0020 | 0.0011 | 0.0027 | 0.0026 | 0.0029 | 0.0021 |
| 24. | 10:00-11:00 | 0.0016 | 0.0010 | 0.0019 | 0.0027 | 0.0023 | 0.0015 | 0.0034 |
| Minimum | | 0.0006 | 0.0007 | 0.0004 | 0.0006 | 0.0004 | 0.0007 | 0.0008 |
| Maximum | | 0.0033 | 0.0038 | 0.0020 | 0.0032 | 0.0037 | 0.0036 | 0.0034 |
| Average | | 0.0017 | 0.0016 | 0.0011 | 0.0016 | 0.0018 | 0.0018 | 0.0021 |
| Standard ⁽¹⁾ | | 0.17 | | | | | | |

Standard : ⁽¹⁾ Notification of the National Environment Board No. 33 (2009) (B.E. 2552)

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1230/2023/4-27

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 5, 2023

Sampling Date : April 19-26, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : Ambient Air

Job No. : S660183/Apr

| Item | Time | Result | | | | | | |
|-------------------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | วัดหนองกะทอ | | | | | | |
| | | NO ₂ (ppm) | | | | | | |
| | | 19-20/04/23 | 20-21/04/23 | 21-22/04/23 | 22-23/04/23 | 23-24/04/23 | 24-25/04/23 | 25-26/04/23 |
| 1. | 13:00-14:00 | 0.0015 | 0.0013 | 0.0016 | 0.0015 | 0.0019 | 0.0017 | 0.0028 |
| 2. | 14:00-15:00 | 0.0016 | 0.0008 | 0.0026 | 0.0028 | 0.0032 | 0.0027 | 0.0012 |
| 3. | 15:00-16:00 | 0.0030 | 0.0020 | 0.0031 | 0.0024 | 0.0023 | 0.0020 | 0.0019 |
| 4. | 16:00-17:00 | 0.0023 | 0.0025 | 0.0028 | 0.0018 | 0.0019 | 0.0013 | 0.0020 |
| 5. | 17:00-18:00 | 0.0025 | 0.0015 | 0.0018 | 0.0017 | 0.0020 | 0.0012 | 0.0013 |
| 6. | 18:00-19:00 | 0.0026 | 0.0013 | 0.0017 | 0.0015 | 0.0019 | 0.0006 | 0.0020 |
| 7. | 19:00-20:00 | 0.0025 | 0.0021 | 0.0016 | 0.0016 | 0.0023 | 0.0006 | 0.0020 |
| 8. | 20:00-21:00 | 0.0019 | 0.0018 | 0.0014 | 0.0017 | 0.0025 | 0.0011 | 0.0018 |
| 9. | 21:00-22:00 | 0.0012 | 0.0018 | 0.0011 | 0.0023 | 0.0020 | 0.0011 | 0.0020 |
| 10. | 22:00-23:00 | 0.0011 | 0.0013 | 0.0009 | 0.0022 | 0.0018 | 0.0013 | 0.0014 |
| 11. | 23:00-00:00 | 0.0013 | 0.0012 | 0.0008 | 0.0017 | 0.0013 | 0.0012 | 0.0024 |
| 12. | 00:00-01:00 | 0.0023 | 0.0012 | 0.0011 | 0.0024 | 0.0014 | 0.0022 | 0.0023 |
| 13. | 01:00-02:00 | 0.0024 | 0.0017 | 0.0015 | 0.0010 | 0.0015 | 0.0021 | 0.0027 |
| 14. | 02:00-03:00 | 0.0018 | 0.0015 | 0.0015 | 0.0012 | 0.0017 | 0.0011 | 0.0027 |
| 15. | 03:00-04:00 | 0.0018 | 0.0014 | 0.0008 | 0.0008 | 0.0011 | 0.0011 | 0.0027 |
| 16. | 04:00-05:00 | 0.0019 | 0.0021 | 0.0010 | 0.0015 | 0.0015 | 0.0011 | 0.0021 |
| 17. | 05:00-06:00 | 0.0029 | 0.0017 | 0.0014 | 0.0020 | 0.0009 | 0.0010 | 0.0024 |
| 18. | 06:00-07:00 | 0.0009 | 0.0020 | 0.0012 | 0.0020 | 0.0018 | 0.0009 | 0.0033 |
| 19. | 07:00-08:00 | 0.0025 | 0.0013 | 0.0010 | 0.0012 | 0.0018 | 0.0013 | 0.0020 |
| 20. | 08:00-09:00 | 0.0021 | 0.0015 | 0.0010 | 0.0024 | 0.0012 | 0.0011 | 0.0008 |
| 21. | 09:00-10:00 | 0.0020 | 0.0016 | 0.0021 | 0.0019 | 0.0007 | 0.0017 | 0.0018 |
| 22. | 10:00-11:00 | 0.0019 | 0.0014 | 0.0029 | 0.0015 | 0.0013 | 0.0022 | 0.0031 |
| 23. | 11:00-12:00 | 0.0014 | 0.0013 | 0.0008 | 0.0015 | 0.0015 | 0.0025 | 0.0031 |
| 24. | 12:00-13:00 | 0.0009 | 0.0021 | 0.0010 | 0.0016 | 0.0010 | 0.0022 | 0.0027 |
| Minimum | | 0.0009 | 0.0008 | 0.0008 | 0.0008 | 0.0007 | 0.0006 | 0.0008 |
| Maximum | | 0.0030 | 0.0025 | 0.0031 | 0.0028 | 0.0032 | 0.0027 | 0.0033 |
| Average | | 0.0019 | 0.0016 | 0.0015 | 0.0018 | 0.0017 | 0.0015 | 0.0022 |
| Standard ⁽¹⁾ | | 0.17 | | | | | | |

Standard : ⁽¹⁾ Notification of the National Environment Board No. 33 (2009) (B.E. 2552)

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/5-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพวนหิน Type of Sample : Ambient Air
จังหวัดพิจิตร 66150
Job No. : S660183/Apr

| Item | Time | Result | | | | | | |
|-------------------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | วัดโคกกระดิน | | | | | | |
| | | SO ₂ (ppm) | | | | | | |
| | | 19-20/04/23 | 20-21/04/23 | 21-22/04/23 | 22-23/04/23 | 23-24/04/23 | 24-25/04/23 | 25-26/04/23 |
| 1. | 12:00-13:00 | 0.0024 | 0.0021 | 0.0020 | 0.0031 | 0.0021 | 0.0032 | 0.0025 |
| 2. | 13:00-14:00 | 0.0020 | 0.0014 | 0.0021 | 0.0024 | 0.0026 | 0.0029 | 0.0019 |
| 3. | 14:00-15:00 | 0.0021 | 0.0013 | 0.0014 | 0.0016 | 0.0016 | 0.0019 | 0.0018 |
| 4. | 15:00-16:00 | 0.0020 | 0.0018 | 0.0021 | 0.0027 | 0.0014 | 0.0018 | 0.0016 |
| 5. | 16:00-17:00 | 0.0024 | 0.0013 | 0.0021 | 0.0016 | 0.0022 | 0.0017 | 0.0017 |
| 6. | 17:00-18:00 | 0.0026 | 0.0016 | 0.0019 | 0.0020 | 0.0019 | 0.0015 | 0.0018 |
| 7. | 18:00-19:00 | 0.0021 | 0.0013 | 0.0021 | 0.0013 | 0.0019 | 0.0022 | 0.0024 |
| 8. | 19:00-20:00 | 0.0019 | 0.0014 | 0.0015 | 0.0034 | 0.0014 | 0.0030 | 0.0023 |
| 9. | 20:00-21:00 | 0.0014 | 0.0013 | 0.0025 | 0.0014 | 0.0013 | 0.0016 | 0.0018 |
| 10. | 21:00-22:00 | 0.0015 | 0.0023 | 0.0024 | 0.0024 | 0.0013 | 0.0012 | 0.0016 |
| 11. | 22:00-23:00 | 0.0016 | 0.0022 | 0.0028 | 0.0025 | 0.0018 | 0.0016 | 0.0021 |
| 12. | 23:00-00:00 | 0.0018 | 0.0012 | 0.0018 | 0.0019 | 0.0016 | 0.0016 | 0.0021 |
| 13. | 00:00-01:00 | 0.0012 | 0.0012 | 0.0018 | 0.0019 | 0.0015 | 0.0009 | 0.0025 |
| 14. | 01:00-02:00 | 0.0016 | 0.0012 | 0.0022 | 0.0020 | 0.0022 | 0.0011 | 0.0011 |
| 15. | 02:00-03:00 | 0.0010 | 0.0011 | 0.0015 | 0.0030 | 0.0018 | 0.0015 | 0.0013 |
| 16. | 03:00-04:00 | 0.0019 | 0.0010 | 0.0012 | 0.0010 | 0.0026 | 0.0013 | 0.0009 |
| 17. | 04:00-05:00 | 0.0019 | 0.0014 | 0.0021 | 0.0026 | 0.0027 | 0.0011 | 0.0013 |
| 18. | 05:00-06:00 | 0.0013 | 0.0012 | 0.0009 | 0.0022 | 0.0021 | 0.0011 | 0.0020 |
| 19. | 06:00-07:00 | 0.0008 | 0.0007 | 0.0019 | 0.0021 | 0.0014 | 0.0009 | 0.0016 |
| 20. | 07:00-08:00 | 0.0014 | 0.0007 | 0.0012 | 0.0020 | 0.0016 | 0.0011 | 0.0016 |
| 21. | 08:00-09:00 | 0.0016 | 0.0012 | 0.0022 | 0.0015 | 0.0017 | 0.0012 | 0.0017 |
| 22. | 09:00-10:00 | 0.0011 | 0.0012 | 0.0028 | 0.0010 | 0.0015 | 0.0010 | 0.0025 |
| 23. | 10:00-11:00 | 0.0018 | 0.0029 | 0.0016 | 0.0014 | 0.0014 | 0.0009 | 0.0020 |
| 24. | 11:00-12:00 | 0.0028 | 0.0013 | 0.0017 | 0.0009 | 0.0022 | 0.0019 | 0.0023 |
| Minimum | | 0.0008 | 0.0007 | 0.0009 | 0.0009 | 0.0013 | 0.0009 | 0.0009 |
| Maximum | | 0.0028 | 0.0029 | 0.0028 | 0.0034 | 0.0027 | 0.0032 | 0.0025 |
| Average | | 0.0018 | 0.0014 | 0.0019 | 0.0020 | 0.0018 | 0.0016 | 0.0019 |
| Standard ⁽¹⁾ | | 0.30 | | | | | | |

Standard: ⁽¹⁾ 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

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตรไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/6-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดะพวนหิน Type of Sample : Ambient Air
จังหวัดพิจิตร 66150
Job No. : S660183/Apr

| Item | Time | Result | | | | | | |
|-------------------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | บ้านหนองเครือชูด | | | | | | |
| | | SO ₂ (ppm) | | | | | | |
| | | 19-20/04/23 | 20-21/04/23 | 21-22/04/23 | 22-23/04/23 | 23-24/04/23 | 24-25/04/23 | 25-26/04/23 |
| 1. | 14:00-15:00 | 0.0018 | 0.0010 | 0.0015 | 0.0014 | 0.0024 | 0.0014 | 0.0028 |
| 2. | 15:00-16:00 | 0.0012 | 0.0017 | 0.0016 | 0.0024 | 0.0031 | 0.0021 | 0.0018 |
| 3. | 16:00-17:00 | 0.0007 | 0.0027 | 0.0019 | 0.0023 | 0.0031 | 0.0017 | 0.0017 |
| 4. | 17:00-18:00 | 0.0019 | 0.0020 | 0.0032 | 0.0025 | 0.0027 | 0.0025 | 0.0016 |
| 5. | 18:00-19:00 | 0.0023 | 0.0013 | 0.0023 | 0.0015 | 0.0015 | 0.0026 | 0.0014 |
| 6. | 19:00-20:00 | 0.0025 | 0.0009 | 0.0019 | 0.0013 | 0.0016 | 0.0020 | 0.0011 |
| 7. | 20:00-21:00 | 0.0019 | 0.0013 | 0.0020 | 0.0021 | 0.0030 | 0.0029 | 0.0009 |
| 8. | 21:00-22:00 | 0.0029 | 0.0011 | 0.0013 | 0.0018 | 0.0023 | 0.0008 | 0.0006 |
| 9. | 22:00-23:00 | 0.0009 | 0.0017 | 0.0012 | 0.0018 | 0.0025 | 0.0006 | 0.0011 |
| 10. | 23:00-00:00 | 0.0025 | 0.0022 | 0.0008 | 0.0027 | 0.0026 | 0.0015 | 0.0015 |
| 11. | 00:00-01:00 | 0.0021 | 0.0025 | 0.0011 | 0.0017 | 0.0025 | 0.0028 | 0.0015 |
| 12. | 01:00-02:00 | 0.0020 | 0.0022 | 0.0011 | 0.0017 | 0.0019 | 0.0024 | 0.0015 |
| 13. | 02:00-03:00 | 0.0019 | 0.0008 | 0.0009 | 0.0008 | 0.0013 | 0.0018 | 0.0020 |
| 14. | 03:00-04:00 | 0.0014 | 0.0014 | 0.0011 | 0.0018 | 0.0015 | 0.0017 | 0.0020 |
| 15. | 04:00-05:00 | 0.0009 | 0.0022 | 0.0008 | 0.0013 | 0.0016 | 0.0015 | 0.0020 |
| 16. | 05:00-06:00 | 0.0011 | 0.0021 | 0.0010 | 0.0012 | 0.0014 | 0.0016 | 0.0018 |
| 17. | 06:00-07:00 | 0.0008 | 0.0011 | 0.0014 | 0.0011 | 0.0013 | 0.0017 | 0.0013 |
| 18. | 07:00-08:00 | 0.0020 | 0.0011 | 0.0012 | 0.0018 | 0.0021 | 0.0023 | 0.0014 |
| 19. | 08:00-09:00 | 0.0012 | 0.0011 | 0.0010 | 0.0018 | 0.0016 | 0.0022 | 0.0015 |
| 20. | 09:00-10:00 | 0.0019 | 0.0010 | 0.0010 | 0.0021 | 0.0013 | 0.0017 | 0.0017 |
| 21. | 10:00-11:00 | 0.0020 | 0.0012 | 0.0021 | 0.0024 | 0.0012 | 0.0024 | 0.0011 |
| 22. | 11:00-12:00 | 0.0013 | 0.0024 | 0.0020 | 0.0023 | 0.0012 | 0.0010 | 0.0015 |
| 23. | 12:00-13:00 | 0.0020 | 0.0019 | 0.0018 | 0.0020 | 0.0017 | 0.0012 | 0.0009 |
| 24. | 13:00-14:00 | 0.0015 | 0.0015 | 0.0020 | 0.0023 | 0.0015 | 0.0026 | 0.0018 |
| Minimum | | 0.0007 | 0.0008 | 0.0008 | 0.0008 | 0.0012 | 0.0006 | 0.0006 |
| Maximum | | 0.0029 | 0.0027 | 0.0032 | 0.0027 | 0.0031 | 0.0029 | 0.0028 |
| Average | | 0.0017 | 0.0016 | 0.0015 | 0.0018 | 0.0019 | 0.0019 | 0.0015 |
| Standard ⁽¹⁾ | | 0.30 | | | | | | |

Standard: ⁽¹⁾ 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

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/7-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150 Type of Sample : Ambient Air
Job No. : S660183/Apr

| Item | Time | Result | | | | | | |
|-------------------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | โรงเรียนวัดบางเบน | | | | | | |
| | | SO ₂ (ppm) | | | | | | |
| | | 19-20/04/23 | 20-21/04/23 | 21-22/04/23 | 22-23/04/23 | 23-24/04/23 | 24-25/04/23 | 25-26/04/23 |
| 1. | 11:00-12:00 | 0.0014 | 0.0016 | 0.0016 | 0.0013 | 0.0022 | 0.0020 | 0.0012 |
| 2. | 12:00-13:00 | 0.0015 | 0.0007 | 0.0014 | 0.0035 | 0.0016 | 0.0016 | 0.0011 |
| 3. | 13:00-14:00 | 0.0014 | 0.0013 | 0.0014 | 0.0012 | 0.0025 | 0.0009 | 0.0007 |
| 4. | 14:00-15:00 | 0.0011 | 0.0016 | 0.0020 | 0.0027 | 0.0026 | 0.0022 | 0.0013 |
| 5. | 15:00-16:00 | 0.0012 | 0.0013 | 0.0018 | 0.0017 | 0.0026 | 0.0008 | 0.0011 |
| 6. | 16:00-17:00 | 0.0020 | 0.0013 | 0.0015 | 0.0012 | 0.0028 | 0.0019 | 0.0017 |
| 7. | 17:00-18:00 | 0.0025 | 0.0015 | 0.0016 | 0.0018 | 0.0020 | 0.0015 | 0.0015 |
| 8. | 18:00-19:00 | 0.0015 | 0.0015 | 0.0030 | 0.0014 | 0.0011 | 0.0010 | 0.0015 |
| 9. | 19:00-20:00 | 0.0035 | 0.0013 | 0.0019 | 0.0020 | 0.0017 | 0.0008 | 0.0024 |
| 10. | 20:00-21:00 | 0.0011 | 0.0008 | 0.0023 | 0.0017 | 0.0016 | 0.0015 | 0.0016 |
| 11. | 21:00-22:00 | 0.0012 | 0.0014 | 0.0009 | 0.0014 | 0.0016 | 0.0009 | 0.0029 |
| 12. | 22:00-23:00 | 0.0013 | 0.0023 | 0.0007 | 0.0009 | 0.0013 | 0.0010 | 0.0017 |
| 13. | 23:00-00:00 | 0.0023 | 0.0020 | 0.0010 | 0.0014 | 0.0012 | 0.0016 | 0.0010 |
| 14. | 00:00-01:00 | 0.0026 | 0.0025 | 0.0013 | 0.0019 | 0.0013 | 0.0014 | 0.0014 |
| 15. | 01:00-02:00 | 0.0020 | 0.0016 | 0.0019 | 0.0025 | 0.0013 | 0.0009 | 0.0021 |
| 16. | 02:00-03:00 | 0.0017 | 0.0013 | 0.0027 | 0.0018 | 0.0024 | 0.0020 | 0.0030 |
| 17. | 03:00-04:00 | 0.0014 | 0.0012 | 0.0016 | 0.0017 | 0.0030 | 0.0013 | 0.0019 |
| 18. | 04:00-05:00 | 0.0014 | 0.0011 | 0.0017 | 0.0031 | 0.0018 | 0.0016 | 0.0039 |
| 19. | 05:00-06:00 | 0.0013 | 0.0011 | 0.0015 | 0.0014 | 0.0013 | 0.0024 | 0.0014 |
| 20. | 06:00-07:00 | 0.0014 | 0.0009 | 0.0019 | 0.0009 | 0.0014 | 0.0018 | 0.0019 |
| 21. | 07:00-08:00 | 0.0008 | 0.0010 | 0.0023 | 0.0010 | 0.0025 | 0.0026 | 0.0011 |
| 22. | 08:00-09:00 | 0.0010 | 0.0011 | 0.0026 | 0.0016 | 0.0015 | 0.0026 | 0.0014 |
| 23. | 09:00-10:00 | 0.0010 | 0.0016 | 0.0018 | 0.0012 | 0.0014 | 0.0017 | 0.0018 |
| 24. | 10:00-11:00 | 0.0011 | 0.0015 | 0.0011 | 0.0013 | 0.0015 | 0.0015 | 0.0018 |
| Minimum | | 0.0008 | 0.0007 | 0.0007 | 0.0009 | 0.0011 | 0.0008 | 0.0007 |
| Maximum | | 0.0035 | 0.0025 | 0.0030 | 0.0035 | 0.0030 | 0.0026 | 0.0039 |
| Average | | 0.0016 | 0.0014 | 0.0017 | 0.0017 | 0.0018 | 0.0016 | 0.0017 |
| Standard ⁽¹⁾ | | 0.30 | | | | | | |

Standard: ⁽¹⁾ 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

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/8-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150 Type of Sample : Ambient Air
Job No. : S660183/Apr

| Item | Time | Result | | | | | | |
|-------------------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | วัดหนองกะทอ | | | | | | |
| | | SO ₂ (ppm) | | | | | | |
| | | 19-20/04/23 | 20-21/04/23 | 21-22/04/23 | 22-23/04/23 | 23-24/04/23 | 24-25/04/23 | 25-26/04/23 |
| 1. | 13:00-14:00 | 0.0021 | 0.0005 | 0.0007 | 0.0011 | 0.0007 | 0.0027 | 0.0011 |
| 2. | 14:00-15:00 | 0.0018 | 0.0008 | 0.0012 | 0.0010 | 0.0008 | 0.0015 | 0.0021 |
| 3. | 15:00-16:00 | 0.0023 | 0.0011 | 0.0017 | 0.0011 | 0.0014 | 0.0008 | 0.0024 |
| 4. | 16:00-17:00 | 0.0014 | 0.0017 | 0.0023 | 0.0011 | 0.0012 | 0.0012 | 0.0018 |
| 5. | 17:00-18:00 | 0.0011 | 0.0025 | 0.0016 | 0.0022 | 0.0007 | 0.0019 | 0.0015 |
| 6. | 18:00-19:00 | 0.0010 | 0.0014 | 0.0015 | 0.0028 | 0.0018 | 0.0028 | 0.0012 |
| 7. | 19:00-20:00 | 0.0009 | 0.0015 | 0.0029 | 0.0016 | 0.0011 | 0.0017 | 0.0012 |
| 8. | 20:00-21:00 | 0.0009 | 0.0013 | 0.0012 | 0.0011 | 0.0014 | 0.0012 | 0.0011 |
| 9. | 21:00-22:00 | 0.0007 | 0.0017 | 0.0007 | 0.0012 | 0.0022 | 0.0017 | 0.0012 |
| 10. | 22:00-23:00 | 0.0008 | 0.0021 | 0.0008 | 0.0023 | 0.0016 | 0.0009 | 0.0006 |
| 11. | 23:00-00:00 | 0.0009 | 0.0024 | 0.0014 | 0.0013 | 0.0024 | 0.0012 | 0.0008 |
| 12. | 00:00-01:00 | 0.0014 | 0.0016 | 0.0010 | 0.0012 | 0.0024 | 0.0016 | 0.0008 |
| 13. | 01:00-02:00 | 0.0013 | 0.0009 | 0.0011 | 0.0013 | 0.0015 | 0.0016 | 0.0009 |
| 14. | 02:00-03:00 | 0.0014 | 0.0011 | 0.0020 | 0.0017 | 0.0013 | 0.0012 | 0.0014 |
| 15. | 03:00-04:00 | 0.0012 | 0.0033 | 0.0014 | 0.0018 | 0.0010 | 0.0013 | 0.0005 |
| 16. | 04:00-05:00 | 0.0012 | 0.0010 | 0.0023 | 0.0014 | 0.0009 | 0.0012 | 0.0011 |
| 17. | 05:00-06:00 | 0.0018 | 0.0025 | 0.0024 | 0.0007 | 0.0005 | 0.0009 | 0.0014 |
| 18. | 06:00-07:00 | 0.0016 | 0.0015 | 0.0024 | 0.0020 | 0.0011 | 0.0010 | 0.0011 |
| 19. | 07:00-08:00 | 0.0013 | 0.0010 | 0.0026 | 0.0006 | 0.0009 | 0.0018 | 0.0011 |
| 20. | 08:00-09:00 | 0.0014 | 0.0016 | 0.0018 | 0.0017 | 0.0015 | 0.0023 | 0.0013 |
| 21. | 09:00-10:00 | 0.0028 | 0.0012 | 0.0009 | 0.0013 | 0.0013 | 0.0013 | 0.0013 |
| 22. | 10:00-11:00 | 0.0017 | 0.0018 | 0.0015 | 0.0008 | 0.0013 | 0.0033 | 0.0011 |
| 23. | 11:00-12:00 | 0.0021 | 0.0015 | 0.0014 | 0.0006 | 0.0022 | 0.0009 | 0.0006 |
| 24. | 12:00-13:00 | 0.0007 | 0.0012 | 0.0014 | 0.0013 | 0.0014 | 0.0010 | 0.0012 |
| Minimum | | 0.0007 | 0.0005 | 0.0007 | 0.0006 | 0.0005 | 0.0008 | 0.0005 |
| Maximum | | 0.0028 | 0.0033 | 0.0029 | 0.0028 | 0.0024 | 0.0033 | 0.0024 |
| Average | | 0.0014 | 0.0016 | 0.0016 | 0.0014 | 0.0014 | 0.0015 | 0.0012 |
| Standard ⁽¹⁾ | | 0.30 | | | | | | |

Standard: ⁽¹⁾ 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

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1230/2023/9-27

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 5, 2023

Sampling Date : April 19-26, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : Ambient Air

Job No. : S660183/Apr

| Item | Sampling Date | Result | | | |
|-------------------------|---------------|---|------------------|-------------------|-------------|
| | | SO ₂ ^(24hr) (ppm) | | | |
| | | วัดโคกกระถิ่น | บ้านหนองเครือชูด | โรงเรียนวัดบางเบน | วัดหนองกะทอ |
| 1. | 19-20/04/23 | 0.0018 | 0.0017 | 0.0016 | 0.0014 |
| 2. | 20-21/04/23 | 0.0014 | 0.0016 | 0.0014 | 0.0016 |
| 3. | 21-22/04/23 | 0.0019 | 0.0015 | 0.0017 | 0.0016 |
| 4. | 22-23/04/23 | 0.0020 | 0.0018 | 0.0017 | 0.0014 |
| 5. | 23-24/04/23 | 0.0018 | 0.0019 | 0.0018 | 0.0014 |
| 6. | 24-25/04/23 | 0.0016 | 0.0019 | 0.0016 | 0.0015 |
| 7. | 25-26/04/23 | 0.0019 | 0.0015 | 0.0017 | 0.0012 |
| Standard ⁽¹⁾ | | 0.12 | | | |

Standard : ⁽¹⁾ Notification of the National Environment Board No. 10 (1995) (B.E. 2538) and No. 24 (2004) (B.E. 2547)

Remark : Reference to Notification of Pollution Control Department on Other Measuring Instruments and method for Ambient Gas or Particulates as Approved by Pollution Control Department. (2019) (B.E. 2562)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีฟิเจอร์ ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/10-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid ฟิเจอร์ Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150 Type of Sample : WS & WD
Job No. : S660183/Apr

| Item | Time | Result | | | | | | | | | | | | | |
|---------|-------------|---------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|
| | | วัดโคกกระถิ่น | | | | | | | | | | | | | |
| | | 19-20/04/23 | | 20-21/04/23 | | 21-22/04/23 | | 22-23/04/23 | | 23-24/04/23 | | 24-25/04/23 | | 25-26/04/23 | |
| | | WS | WD | WS | WD | WS | WD | WS | WD | WS | WD | WS | WD | WS | WD |
| 1. | 12:00-13:00 | 0.4 | NW | 0.4 | WSW | 0.4 | ESE | 0.9 | SE | 0.9 | SSE | 1.3 | SW | 1.3 | E |
| 2. | 13:00-14:00 | 0.4 | WNW | 0.4 | ESE | 0.4 | ESE | 0.9 | SE | 0.9 | S | 0.4 | W | 1.3 | SW |
| 3. | 14:00-15:00 | 0.4 | WNW | 0.4 | NW | 0.4 | WSW | 0.4 | SSE | 0.4 | SSE | 0.9 | S | 0.4 | SSW |
| 4. | 15:00-16:00 | 0.4 | WSW | 0.9 | W | 0.4 | W | 1.3 | SW | 0.9 | SW | 0.4 | WSW | 0.9 | SSE |
| 5. | 16:00-17:00 | 0.9 | WSW | 0.9 | WSW | 0.0 | SSW | 1.3 | SSE | 2.7 | E | 0.4 | SW | 2.7 | E |
| 6. | 17:00-18:00 | 0.4 | W | 0.9 | WSW | 0.4 | SW | 1.8 | E | 2.2 | E | 0.9 | WSW | 1.3 | ESE |
| 7. | 18:00-19:00 | 0.9 | WNW | 0.9 | WNW | 0.9 | WSW | 1.8 | ESE | 2.7 | NE | 0.4 | S | 3.1 | NE |
| 8. | 19:00-20:00 | 0.4 | WNW | 0.0 | WNW | 1.3 | S | 1.8 | NE | 1.3 | NE | 0.4 | SE | 0.9 | NE |
| 9. | 20:00-21:00 | 0.0 | WNW | 0.0 | WSW | 0.9 | SSE | 0.9 | NE | 1.3 | NNE | 0.4 | S | 0.9 | NNE |
| 10. | 21:00-22:00 | 0.0 | WSW | 0.0 | WSW | 0.9 | SSE | 0.4 | NNE | 0.4 | NNE | 0.4 | SSE | 1.3 | NNE |
| 11. | 22:00-23:00 | 0.0 | WSW | 0.0 | WSW | 0.0 | SSE | 1.8 | NW | 0.9 | NW | 0.4 | SSE | 0.4 | NW |
| 12. | 23:00-00:00 | 0.0 | WSW | 0.4 | WSW | 0.9 | SSE | 0.4 | NW | 0.4 | NW | 0.4 | SSW | 0.4 | NW |
| 13. | 00:00-01:00 | 0.0 | WSW | 0.0 | WSW | 0.9 | S | 0.9 | NNE | 0.9 | NNE | 0.4 | SSE | 0.9 | NNE |
| 14. | 01:00-02:00 | 0.0 | WSW | 0.4 | WSW | 0.4 | SSE | 0.4 | ENE | 0.4 | ENE | 0.4 | SSE | 0.9 | ENE |
| 15. | 02:00-03:00 | 0.4 | WSW | 0.4 | WSW | 0.4 | SE | 0.9 | ENE | 0.4 | ENE | 0.4 | SE | 0.4 | ENE |
| 16. | 03:00-04:00 | 0.9 | SSE | 0.4 | SSE | 0.4 | SE | 0.0 | ENE | 0.0 | ENE | 0.0 | SSE | 0.4 | ENE |
| 17. | 04:00-05:00 | 0.4 | SSE | 0.0 | ESE | 0.0 | SSE | 0.9 | ENE | 1.3 | ESE | 0.0 | SSE | 0.9 | ENE |
| 18. | 05:00-06:00 | 0.0 | ESE | 0.0 | ESE | 0.0 | SSE | 1.3 | ESE | 1.8 | ESE | 0.0 | SSE | 1.8 | E |
| 19. | 06:00-07:00 | 0.0 | ESE | 0.0 | ESE | 0.9 | SSE | 1.8 | E | 1.8 | ESE | 0.0 | SSE | 1.8 | ESE |
| 20. | 07:00-08:00 | 0.4 | ESE | 0.0 | ESE | 0.0 | SSE | 1.8 | E | 2.2 | ESE | 0.4 | ESE | 1.8 | E |
| 21. | 08:00-09:00 | 0.9 | ESE | 0.9 | ESE | 0.4 | E | 2.2 | ESE | 1.8 | E | 0.9 | SSE | 2.2 | E |
| 22. | 09:00-10:00 | 1.3 | ESE | 0.4 | S | 0.4 | SSE | 2.2 | E | 1.8 | ESE | 0.9 | SSE | 1.8 | ESE |
| 23. | 10:00-11:00 | 0.9 | ESE | 0.4 | S | 0.9 | SE | 1.8 | E | 0.9 | ESE | 0.9 | SW | 0.9 | ESE |
| 24. | 11:00-12:00 | 0.4 | WSW | 0.4 | ESE | 0.9 | E | 0.9 | SSW | 0.4 | SW | 0.9 | SSE | 0.9 | WSW |
| Average | | 0.4 | - | 0.4 | - | 0.5 | - | 1.2 | - | 1.2 | - | 0.5 | - | 1.2 | - |

Remark : WS = WIND SPEED (m/s)

WD = WIND DIRECTION

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1230/2023/11-27

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 5, 2023

Sampling Date : April 19-26, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : WS & WD

Job No. : S660183/Apr

| Item | Time | Result | | | | | | | | | | | | | |
|---------|-------------|---------------------------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|
| | | ภายในตาข่ายลานกองเก็บเชื้อเพลิง | | | | | | | | | | | | | |
| | | 19-20/04/23 | | 20-21/04/23 | | 21-22/04/23 | | 22-23/04/23 | | 23-24/04/23 | | 24-25/04/23 | | 25-26/04/23 | |
| | | WS | WD | WS | WD | WS | WD | WS | WD | WS | WD | WS | WD | WS | WD |
| 1. | 15:00-16:00 | 0.0 | WSW | 0.4 | N | 0.9 | N | 0.0 | SW | 0.0 | NNW | 1.8 | NW | 0.0 | S |
| 2. | 16:00-17:00 | 0.9 | WSW | 0.4 | NW | 0.9 | N | 0.4 | WNW | 0.9 | N | 2.2 | NW | 0.4 | SSE |
| 3. | 17:00-18:00 | 0.4 | WSW | 0.4 | NW | 0.4 | N | 0.4 | W | 0.4 | N | 0.9 | NW | 0.0 | SW |
| 4. | 18:00-19:00 | 0.4 | N | 0.0 | NW | 0.0 | N | 0.4 | NW | 0.4 | N | 0.4 | N | 0.4 | E |
| 5. | 19:00-20:00 | 0.0 | N | 0.0 | NW | 0.0 | N | 0.0 | N | 0.4 | N | 0.4 | N | 1.3 | W |
| 6. | 20:00-21:00 | 0.0 | N | 0.0 | NW | 0.0 | N | 0.4 | SSW | 0.9 | S | 0.4 | NNE | 1.3 | NW |
| 7. | 21:00-22:00 | 0.0 | W | 0.0 | N | 0.0 | NW | 0.9 | SW | 1.3 | SW | 1.8 | WNW | 1.3 | SW |
| 8. | 22:00-23:00 | 0.0 | WNW | 0.0 | N | 0.9 | NW | 0.9 | SW | 1.3 | SW | 1.3 | NW | 0.4 | SW |
| 9. | 23:00-00:00 | 0.0 | WNW | 0.0 | N | 0.4 | NNW | 1.3 | SW | 1.3 | SW | 1.8 | WNW | 0.9 | SW |
| 10. | 00:00-01:00 | 0.4 | N | 0.0 | N | 0.4 | NNW | 0.9 | SSW | 5.4 | SE | 0.9 | NW | 0.9 | WNW |
| 11. | 01:00-02:00 | 0.4 | N | 0.0 | SSE | 1.3 | NNW | 0.4 | W | 0.9 | N | 0.4 | WNW | 3.1 | ESE |
| 12. | 02:00-03:00 | 0.0 | N | 0.4 | SSE | 0.0 | NW | 0.4 | SW | 1.8 | WNW | 0.0 | WNW | 1.3 | ESE |
| 13. | 03:00-04:00 | 0.4 | NNW | 0.9 | SSE | 0.0 | NW | 0.4 | SW | 1.3 | WNW | 0.0 | WNW | 0.4 | E |
| 14. | 04:00-05:00 | 0.0 | WNW | 0.4 | SE | 0.0 | NW | 0.4 | SW | 0.4 | WNW | 0.0 | WNW | 0.0 | SSE |
| 15. | 05:00-06:00 | 0.9 | W | 0.0 | SE | 0.0 | NW | 0.0 | SSW | 0.4 | SW | 0.0 | WNW | 0.0 | ESE |
| 16. | 06:00-07:00 | 0.4 | WNW | 0.0 | ESE | 0.0 | NW | 0.0 | SW | 0.0 | WNW | 0.0 | WNW | 0.0 | ESE |
| 17. | 07:00-08:00 | 0.0 | N | 0.0 | SE | 0.0 | NW | 0.0 | SW | 0.0 | WNW | 0.0 | WNW | 0.0 | N |
| 18. | 08:00-09:00 | 0.4 | SSE | 0.0 | SE | 0.0 | NW | 0.0 | SSW | 0.0 | WNW | 0.0 | WNW | 0.4 | NNW |
| 19. | 09:00-10:00 | 0.9 | SSE | 0.0 | SW | 0.0 | NW | 0.4 | SSW | 0.0 | WNW | 0.0 | WNW | 0.4 | SSE |
| 20. | 10:00-11:00 | 0.4 | SSW | 0.0 | SW | 0.0 | NW | 0.0 | SSE | 0.0 | WNW | 0.0 | WNW | 0.9 | N |
| 21. | 11:00-12:00 | 0.4 | N | 0.9 | N | 0.4 | N | 0.0 | NW | 0.0 | WNW | 0.0 | S | 0.4 | N |
| 22. | 12:00-13:00 | 0.4 | N | 0.9 | N | 0.0 | N | 0.0 | NW | 0.4 | WNW | 0.0 | SSE | 0.0 | NW |
| 23. | 13:00-14:00 | 1.3 | N | 0.9 | N | 0.0 | N | 0.0 | NW | 2.2 | NW | 0.0 | S | 0.0 | WNW |
| 24. | 14:00-15:00 | 0.9 | N | 0.4 | N | 0.0 | N | 0.0 | NW | 2.2 | NW | 0.0 | SSE | 0.4 | WNW |
| Average | | 0.4 | - | 0.3 | - | 0.2 | - | 0.3 | - | 0.9 | - | 0.5 | - | 0.6 | - |

Remark : WS = WIND SPEED (m/s)

WD = WIND DIRECTION

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1230/2023/12-27

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 5, 2023

Sampling Date : April 19-26, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : WS & WD

Job No. : S660183/Apr

| Item | Time | Result | | | | | | | | | | | | | |
|---------|-------------|----------------------------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|
| | | ภายนอกดาข่ายลานกองเก็บเชื้อเพลิง | | | | | | | | | | | | | |
| | | 19-20/04/23 | | 20-21/04/23 | | 21-22/04/23 | | 22-23/04/23 | | 23-24/04/23 | | 24-25/04/23 | | 25-26/04/23 | |
| | | WS | WD | WS | WD | WS | WD | WS | WD | WS | WD | WS | WD | WS | WD |
| 1. | 15:00-16:00 | 0.4 | WSW | 0.9 | N | 0.9 | N | 1.3 | SW | 1.3 | SW | 0.0 | WSW | 0.9 | W |
| 2. | 16:00-17:00 | 0.4 | SW | 0.9 | N | 0.9 | N | 1.3 | SW | 3.6 | SE | 0.4 | SW | 0.4 | W |
| 3. | 17:00-18:00 | 0.0 | SW | 0.0 | N | 0.0 | N | 0.9 | SW | 3.6 | WNW | 0.0 | SW | 1.3 | WSW |
| 4. | 18:00-19:00 | 0.4 | SW | 0.0 | N | 0.0 | N | 0.4 | SW | 2.7 | NNW | 3.6 | E | 0.4 | W |
| 5. | 19:00-20:00 | 0.4 | N | 1.3 | N | 0.0 | N | 0.9 | SW | 1.3 | WNW | 0.9 | ENE | 2.7 | E |
| 6. | 20:00-21:00 | 0.4 | N | 0.4 | N | 0.0 | NW | 0.0 | SW | 0.4 | WNW | 0.4 | ENE | 0.4 | E |
| 7. | 21:00-22:00 | 0.4 | N | 0.0 | N | 0.0 | NW | 0.0 | SW | 0.4 | SW | 0.4 | SE | 0.0 | ENE |
| 8. | 22:00-23:00 | 0.0 | N | 0.0 | N | 0.0 | N | 0.0 | SW | 0.0 | SW | 0.0 | SE | 0.4 | SE |
| 9. | 23:00-00:00 | 0.0 | N | 0.0 | N | 0.0 | N | 0.0 | SW | 0.0 | WNW | 0.0 | SE | 0.0 | SE |
| 10. | 00:00-01:00 | 0.0 | N | 0.0 | NW | 0.0 | N | 0.0 | SW | 0.0 | WNW | 1.3 | SE | 0.0 | SE |
| 11. | 01:00-02:00 | 0.4 | NW | 0.4 | SSE | 0.0 | N | 0.0 | SW | 0.0 | WNW | 2.7 | SE | 1.8 | SE |
| 12. | 02:00-03:00 | 0.0 | NNW | 0.0 | SE | 0.0 | N | 0.4 | SW | 0.0 | WNW | 0.9 | SE | 2.2 | SE |
| 13. | 03:00-04:00 | 0.0 | N | 0.0 | SE | 0.4 | N | 0.0 | SW | 0.0 | WNW | 0.0 | W | 0.4 | ESE |
| 14. | 04:00-05:00 | 0.0 | N | 0.0 | ESE | 0.0 | N | 0.0 | SW | 0.0 | WNW | 0.0 | WSW | 0.4 | WSW |
| 15. | 05:00-06:00 | 0.9 | ENE | 0.0 | ESE | 0.0 | N | 0.0 | SW | 1.8 | WNW | 0.4 | SE | 0.4 | SE |
| 16. | 06:00-07:00 | 0.9 | ENE | 0.0 | SE | 0.0 | N | 0.0 | NW | 1.8 | NW | 0.0 | SE | 0.0 | ESE |
| 17. | 07:00-08:00 | 0.4 | ENE | 0.0 | SE | 0.0 | N | 0.0 | NW | 1.8 | NW | 0.9 | E | 0.4 | ESE |
| 18. | 08:00-09:00 | 0.4 | SSE | 0.0 | ESE | 0.4 | WNW | 0.4 | N | 2.7 | NW | 0.9 | E | 0.9 | ESE |
| 19. | 09:00-10:00 | 1.8 | SSE | 0.0 | ESE | 0.4 | NW | 0.4 | N | 1.8 | NW | 0.0 | W | 0.0 | SSE |
| 20. | 10:00-11:00 | 0.9 | SSE | 0.0 | ESE | 0.4 | N | 0.9 | N | 0.4 | WSW | 0.0 | W | 0.0 | SSE |
| 21. | 11:00-12:00 | 0.9 | WNW | 0.0 | NW | 0.4 | NW | 0.9 | N | 0.4 | WSW | 0.4 | WSW | 0.0 | SSE |
| 22. | 12:00-13:00 | 0.9 | SW | 1.8 | NW | 0.4 | SE | 0.4 | WSW | 0.4 | WSW | 0.4 | WSW | 0.4 | WSW |
| 23. | 13:00-14:00 | 0.9 | N | 1.8 | NW | 0.9 | SW | 0.9 | NNW | 0.9 | WSW | 0.0 | SW | 0.9 | W |
| 24. | 14:00-15:00 | 0.9 | N | 1.3 | NW | 0.9 | SW | 1.3 | WNW | 0.4 | SW | 0.0 | SW | 0.9 | WSW |
| Average | | 0.5 | - | 0.4 | - | 0.3 | - | 0.4 | - | 1.1 | - | 0.6 | - | 0.6 | - |

Remark : WS = WIND SPEED (m/s)

WD = WIND DIRECTION

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1230/2023/13-27

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 5, 2023

Sampling Date : April 19-26, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : Sound Level

Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | | | | |
|----------------------------|-------------|-----------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | วัดหนองกะทอ | | | | | | | | | | | |
| | | 19-20/04/23 | | | 20-21/04/23 | | | 21-22/04/23 | | | 22-23/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 13:00-14:00 | 47.9 | 79.2 | 45.6 | 51.6 | 67.0 | 44.0 | 52.9 | 76.1 | 46.3 | 55.0 | 74.9 | 45.7 |
| 2. | 14:00-15:00 | 48.7 | 61.0 | 44.0 | 50.1 | 62.3 | 43.1 | 50.9 | 67.5 | 48.4 | 54.9 | 69.2 | 50.2 |
| 3. | 15:00-16:00 | 49.1 | 68.3 | 46.7 | 52.2 | 69.4 | 42.6 | 53.8 | 74.1 | 47.4 | 54.7 | 73.8 | 52.0 |
| 4. | 16:00-17:00 | 48.0 | 63.8 | 43.6 | 47.2 | 63.6 | 40.9 | 55.5 | 74.5 | 48.2 | 50.6 | 74.2 | 42.0 |
| 5. | 17:00-18:00 | 48.0 | 69.8 | 42.0 | 48.7 | 69.9 | 43.0 | 54.5 | 75.0 | 49.2 | 48.1 | 74.7 | 40.8 |
| 6. | 18:00-19:00 | 48.8 | 67.6 | 41.2 | 48.4 | 63.7 | 43.2 | 52.3 | 82.4 | 50.0 | 49.7 | 90.8 | 39.3 |
| 7. | 19:00-20:00 | 44.7 | 60.9 | 40.4 | 50.1 | 69.4 | 43.3 | 53.2 | 70.7 | 50.3 | 51.0 | 80.2 | 38.9 |
| 8. | 20:00-21:00 | 47.0 | 63.4 | 40.6 | 50.8 | 75.1 | 38.7 | 53.8 | 73.6 | 49.5 | 45.7 | 79.1 | 41.7 |
| 9. | 21:00-22:00 | 46.5 | 65.6 | 42.7 | 47.4 | 75.9 | 40.6 | 49.5 | 64.6 | 48.4 | 46.9 | 69.8 | 43.8 |
| 10. | 22:00-23:00 | 47.2 | 67.1 | 39.6 | 48.8 | 69.8 | 39.3 | 50.9 | 65.2 | 49.5 | 53.2 | 73.9 | 46.6 |
| 11. | 23:00-00:00 | 43.5 | 57.0 | 40.4 | 46.8 | 69.7 | 39.9 | 48.7 | 55.9 | 46.7 | 51.1 | 74.6 | 47.2 |
| 12. | 00:00-01:00 | 45.8 | 63.6 | 39.9 | 52.4 | 77.6 | 40.1 | 47.9 | 65.9 | 46.1 | 49.5 | 76.2 | 47.6 |
| 13. | 01:00-02:00 | 50.3 | 70.8 | 38.2 | 48.9 | 71.1 | 40.1 | 48.6 | 65.7 | 46.2 | 46.6 | 68.5 | 44.2 |
| 14. | 02:00-03:00 | 47.5 | 66.1 | 39.5 | 49.6 | 72.9 | 40.1 | 48.8 | 79.1 | 42.2 | 50.6 | 74.8 | 43.4 |
| 15. | 03:00-04:00 | 47.5 | 66.0 | 40.3 | 53.7 | 76.2 | 40.4 | 43.3 | 62.6 | 41.8 | 46.9 | 64.2 | 43.5 |
| 16. | 04:00-05:00 | 48.7 | 64.9 | 42.0 | 50.0 | 75.3 | 41.6 | 44.4 | 53.7 | 43.6 | 45.7 | 67.9 | 41.2 |
| 17. | 05:00-06:00 | 48.1 | 65.6 | 40.8 | 54.4 | 77.7 | 47.3 | 49.4 | 75.6 | 44.2 | 51.8 | 77.6 | 45.6 |
| 18. | 06:00-07:00 | 47.5 | 62.6 | 39.8 | 53.2 | 57.6 | 50.9 | 50.9 | 74.7 | 43.9 | 54.9 | 75.3 | 48.2 |
| 19. | 07:00-08:00 | 46.2 | 65.1 | 39.4 | 53.1 | 82.0 | 50.1 | 45.5 | 52.6 | 44.8 | 54.0 | 80.6 | 41.6 |
| 20. | 08:00-09:00 | 50.7 | 69.0 | 40.6 | 52.3 | 57.2 | 49.7 | 46.9 | 65.4 | 45.9 | 50.9 | 73.4 | 42.9 |
| 21. | 09:00-10:00 | 48.9 | 69.8 | 41.3 | 52.7 | 62.2 | 50.3 | 49.4 | 62.6 | 47.1 | 52.4 | 78.6 | 43.5 |
| 22. | 10:00-11:00 | 48.6 | 63.1 | 40.5 | 51.5 | 55.8 | 48.8 | 51.0 | 59.6 | 47.0 | 51.2 | 77.3 | 42.6 |
| 23. | 11:00-12:00 | 51.6 | 68.3 | 41.8 | 51.2 | 70.2 | 48.4 | 51.3 | 59.2 | 47.4 | 51.8 | 72.9 | 41.5 |
| 24. | 12:00-13:00 | 49.8 | 68.1 | 40.9 | 51.4 | 74.2 | 46.2 | 50.2 | 75.1 | 45.9 | 50.0 | 70.1 | 42.3 |
| Leq 24 hr | | 48.3 | - | - | 51.2 | - | - | 51.1 | - | - | 51.6 | - | - |
| Lmax | | - | 79.2 | - | - | 82.0 | - | - | 82.4 | - | - | 90.8 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 54.2 | - | - | 57.9 | - | - | 55.8 | - | - | 57.6 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/14-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150 Type of Sample : Sound Level
Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | |
|----------------------------|-------------|-----------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | วัดหนองกระโทก | | | | | | | | |
| | | 23-24/04/23 | | | 24-25/04/23 | | | 25-26/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 13:00-14:00 | 49.7 | 86.8 | 40.2 | 51.1 | 71.6 | 44.2 | 48.6 | 65.1 | 44.5 |
| 2. | 14:00-15:00 | 52.4 | 86.3 | 43.2 | 48.6 | 70.0 | 41.7 | 50.0 | 71.1 | 43.2 |
| 3. | 15:00-16:00 | 53.1 | 84.1 | 41.8 | 48.1 | 72.1 | 39.9 | 49.2 | 68.9 | 43.0 |
| 4. | 16:00-17:00 | 56.2 | 81.9 | 49.1 | 47.1 | 84.7 | 39.4 | 46.7 | 64.7 | 41.7 |
| 5. | 17:00-18:00 | 55.6 | 83.5 | 42.7 | 49.9 | 76.5 | 40.2 | 48.2 | 60.2 | 42.4 |
| 6. | 18:00-19:00 | 53.1 | 84.6 | 44.6 | 54.1 | 82.3 | 50.8 | 47.1 | 66.9 | 42.4 |
| 7. | 19:00-20:00 | 52.5 | 73.7 | 47.4 | 55.8 | 72.8 | 53.9 | 48.5 | 68.4 | 40.9 |
| 8. | 20:00-21:00 | 52.7 | 81.2 | 50.1 | 56.8 | 72.5 | 55.8 | 45.0 | 63.1 | 41.5 |
| 9. | 21:00-22:00 | 52.6 | 74.3 | 50.2 | 58.7 | 77.0 | 57.5 | 46.8 | 64.9 | 41.2 |
| 10. | 22:00-23:00 | 53.2 | 72.3 | 51.9 | 56.1 | 75.8 | 54.4 | 51.9 | 72.1 | 39.7 |
| 11. | 23:00-00:00 | 51.8 | 65.3 | 50.6 | 55.5 | 69.9 | 54.0 | 49.0 | 67.1 | 40.6 |
| 12. | 00:00-01:00 | 52.3 | 67.4 | 50.4 | 55.4 | 66.3 | 53.7 | 48.7 | 67.3 | 42.4 |
| 13. | 01:00-02:00 | 53.8 | 83.4 | 50.8 | 54.5 | 69.6 | 52.4 | 49.4 | 66.2 | 42.8 |
| 14. | 02:00-03:00 | 50.1 | 70.6 | 48.6 | 53.6 | 65.8 | 49.5 | 50.1 | 66.9 | 42.4 |
| 15. | 03:00-04:00 | 50.7 | 77.4 | 48.6 | 54.2 | 80.7 | 49.1 | 48.2 | 61.8 | 41.4 |
| 16. | 04:00-05:00 | 51.2 | 72.1 | 48.9 | 55.3 | 70.8 | 49.8 | 47.7 | 66.4 | 40.6 |
| 17. | 05:00-06:00 | 55.3 | 74.9 | 51.6 | 53.4 | 81.9 | 43.5 | 52.7 | 71.1 | 41.9 |
| 18. | 06:00-07:00 | 55.6 | 81.1 | 47.3 | 54.8 | 83.8 | 49.2 | 49.6 | 65.3 | 42.8 |
| 19. | 07:00-08:00 | 55.2 | 82.0 | 44.1 | 54.0 | 80.1 | 43.9 | 49.1 | 64.8 | 41.4 |
| 20. | 08:00-09:00 | 55.6 | 88.7 | 45.0 | 51.0 | 70.4 | 45.4 | 53.2 | 69.6 | 44.4 |
| 21. | 09:00-10:00 | 56.8 | 83.2 | 43.4 | 50.4 | 74.3 | 45.7 | 51.3 | 69.4 | 41.6 |
| 22. | 10:00-11:00 | 56.9 | 79.6 | 49.4 | 49.1 | 80.5 | 46.6 | 52.8 | 66.2 | 45.5 |
| 23. | 11:00-12:00 | 56.7 | 84.2 | 49.2 | 50.4 | 61.3 | 45.5 | 52.3 | 66.1 | 44.4 |
| 24. | 12:00-13:00 | 54.4 | 94.9 | 40.9 | 50.6 | 69.6 | 48.1 | 52.9 | 70.7 | 44.4 |
| Leq 24 hr | | 54.1 | - | - | 53.8 | - | - | 50.1 | - | - |
| Lmax | | - | 94.9 | - | - | 84.7 | - | - | 72.1 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 59.7 | - | - | 61.0 | - | - | 56.4 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/15-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150 Type of Sample : Sound Level
Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | | | | |
|----------------------------|-------------|------------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | บ้านสี่แยกเขาดิน | | | | | | | | | | | |
| | | 19-20/04/23 | | | 20-21/04/23 | | | 21-22/04/23 | | | 22-23/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 15:00-16:00 | 55.4 | 74.3 | 47.8 | 56.1 | 78.1 | 48.8 | 53.0 | 73.8 | 49.1 | 56.6 | 79.2 | 49.3 |
| 2. | 16:00-17:00 | 55.1 | 81.9 | 46.8 | 53.7 | 83.0 | 47.7 | 52.4 | 73.5 | 47.1 | 55.4 | 77.7 | 49.0 |
| 3. | 17:00-18:00 | 56.0 | 78.0 | 46.5 | 50.3 | 71.7 | 45.8 | 50.1 | 71.6 | 46.7 | 52.4 | 84.1 | 47.4 |
| 4. | 18:00-19:00 | 55.0 | 74.9 | 48.1 | 53.2 | 70.6 | 45.0 | 51.4 | 69.7 | 48.0 | 51.9 | 72.8 | 46.6 |
| 5. | 19:00-20:00 | 52.5 | 71.9 | 44.6 | 54.0 | 85.2 | 46.5 | 51.8 | 71.7 | 48.0 | 54.7 | 86.3 | 47.5 |
| 6. | 20:00-21:00 | 48.8 | 67.5 | 42.3 | 49.7 | 70.1 | 45.3 | 52.8 | 82.5 | 47.1 | 50.7 | 71.2 | 46.5 |
| 7. | 21:00-22:00 | 47.0 | 67.2 | 42.5 | 50.0 | 72.9 | 45.3 | 53.5 | 85.1 | 47.7 | 51.0 | 74.0 | 46.3 |
| 8. | 22:00-23:00 | 52.9 | 84.9 | 43.5 | 53.5 | 82.6 | 46.3 | 54.7 | 82.1 | 48.4 | 54.6 | 83.7 | 47.4 |
| 9. | 23:00-00:00 | 48.5 | 70.0 | 45.8 | 51.7 | 76.1 | 48.6 | 49.2 | 83.0 | 46.7 | 52.8 | 77.2 | 49.6 |
| 10. | 00:00-01:00 | 53.4 | 76.6 | 45.9 | 53.5 | 86.7 | 48.8 | 52.4 | 73.8 | 48.1 | 51.3 | 71.9 | 49.0 |
| 11. | 01:00-02:00 | 49.8 | 76.2 | 45.5 | 51.5 | 73.9 | 49.7 | 50.7 | 76.9 | 47.9 | 49.1 | 57.6 | 47.3 |
| 12. | 02:00-03:00 | 51.5 | 75.6 | 46.0 | 50.9 | 72.4 | 49.8 | 51.4 | 78.0 | 48.5 | 49.8 | 61.1 | 47.0 |
| 13. | 03:00-04:00 | 47.1 | 67.9 | 45.8 | 50.2 | 64.1 | 48.6 | 51.4 | 75.4 | 47.7 | 52.2 | 65.4 | 47.1 |
| 14. | 04:00-05:00 | 50.1 | 77.4 | 45.8 | 50.3 | 64.9 | 48.4 | 48.5 | 61.6 | 47.5 | 49.5 | 63.5 | 48.1 |
| 15. | 05:00-06:00 | 48.8 | 71.1 | 45.5 | 49.8 | 70.8 | 47.6 | 49.4 | 73.6 | 46.5 | 51.0 | 72.4 | 48.4 |
| 16. | 06:00-07:00 | 50.2 | 58.0 | 47.1 | 47.9 | 56.5 | 45.9 | 46.7 | 58.9 | 45.9 | 53.3 | 75.3 | 48.4 |
| 17. | 07:00-08:00 | 52.0 | 61.0 | 49.4 | 49.0 | 60.0 | 45.9 | 50.2 | 76.9 | 45.3 | 52.6 | 82.4 | 48.6 |
| 18. | 08:00-09:00 | 53.1 | 61.3 | 50.4 | 50.9 | 64.3 | 46.0 | 46.7 | 64.3 | 45.4 | 58.6 | 74.9 | 50.9 |
| 19. | 09:00-10:00 | 51.0 | 68.0 | 48.7 | 48.9 | 67.3 | 47.4 | 49.7 | 74.1 | 45.1 | 57.7 | 73.1 | 48.0 |
| 20. | 10:00-11:00 | 51.5 | 85.0 | 45.9 | 51.5 | 74.2 | 47.1 | 53.2 | 77.3 | 46.7 | 53.6 | 69.0 | 50.7 |
| 21. | 11:00-12:00 | 50.5 | 83.0 | 45.0 | 51.2 | 69.9 | 47.4 | 58.0 | 78.1 | 51.8 | 53.0 | 84.4 | 46.7 |
| 22. | 12:00-13:00 | 53.9 | 82.0 | 46.1 | 53.6 | 81.3 | 47.6 | 57.7 | 73.4 | 52.4 | 57.1 | 79.6 | 53.2 |
| 23. | 13:00-14:00 | 53.3 | 76.5 | 46.6 | 52.8 | 77.4 | 47.2 | 52.0 | 70.5 | 47.4 | 53.9 | 73.6 | 49.0 |
| 24. | 14:00-15:00 | 54.2 | 81.2 | 47.7 | 53.9 | 78.7 | 47.8 | 56.0 | 82.3 | 49.1 | 56.9 | 86.0 | 50.4 |
| Leq 24 hr | | 52.4 | - | - | 52.1 | - | - | 52.8 | - | - | 54.1 | - | - |
| Lmax | | - | 85.0 | - | - | 86.7 | - | - | 85.1 | - | - | 86.3 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 57.6 | - | - | 57.9 | - | - | 57.9 | - | - | 58.9 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/16-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150 Type of Sample : Sound Level
Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | |
|----------------------------|-------------|------------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | บ้านสี่แยกเขาดิน | | | | | | | | |
| | | 23-24/04/23 | | | 24-25/04/23 | | | 25-26/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 15:00-16:00 | 54.3 | 75.8 | 49.9 | 49.3 | 70.8 | 46.6 | 52.5 | 76.9 | 49.4 |
| 2. | 16:00-17:00 | 52.0 | 76.1 | 48.8 | 54.2 | 77.4 | 46.7 | 54.1 | 87.5 | 49.6 |
| 3. | 17:00-18:00 | 53.4 | 78.9 | 49.2 | 50.6 | 77.0 | 46.3 | 52.3 | 74.7 | 50.5 |
| 4. | 18:00-19:00 | 50.9 | 76.4 | 48.9 | 52.3 | 76.4 | 46.8 | 51.7 | 73.2 | 50.6 |
| 5. | 19:00-20:00 | 49.4 | 62.6 | 48.3 | 47.9 | 68.7 | 46.6 | 51.0 | 64.9 | 49.4 |
| 6. | 20:00-21:00 | 50.7 | 88.5 | 47.7 | 50.9 | 78.2 | 46.6 | 51.1 | 65.7 | 49.2 |
| 7. | 21:00-22:00 | 50.4 | 73.7 | 48.9 | 49.6 | 71.9 | 46.3 | 50.6 | 71.6 | 48.4 |
| 8. | 22:00-23:00 | 49.2 | 62.0 | 48.2 | 51.0 | 58.8 | 47.9 | 48.7 | 57.3 | 46.7 |
| 9. | 23:00-00:00 | 48.7 | 57.9 | 47.7 | 52.8 | 61.8 | 50.2 | 49.8 | 60.8 | 46.7 |
| 10. | 00:00-01:00 | 51.9 | 70.8 | 49.9 | 53.9 | 62.1 | 51.2 | 51.7 | 65.1 | 46.8 |
| 11. | 01:00-02:00 | 53.1 | 74.5 | 48.7 | 51.8 | 68.8 | 49.5 | 49.7 | 68.1 | 48.2 |
| 12. | 02:00-03:00 | 50.7 | 78.0 | 47.4 | 50.8 | 85.8 | 46.7 | 52.3 | 75.0 | 47.9 |
| 13. | 03:00-04:00 | 52.9 | 72.5 | 46.6 | 51.3 | 83.8 | 45.8 | 52.0 | 70.7 | 48.2 |
| 14. | 04:00-05:00 | 54.5 | 75.7 | 47.7 | 54.7 | 82.8 | 46.9 | 54.4 | 82.1 | 48.4 |
| 15. | 05:00-06:00 | 55.3 | 76.4 | 48.9 | 54.1 | 77.3 | 47.4 | 53.6 | 78.2 | 48.0 |
| 16. | 06:00-07:00 | 53.8 | 87.0 | 49.4 | 55.0 | 82.0 | 48.5 | 54.7 | 79.5 | 48.6 |
| 17. | 07:00-08:00 | 56.2 | 75.1 | 48.6 | 56.4 | 78.9 | 49.6 | 53.8 | 74.6 | 49.9 |
| 18. | 08:00-09:00 | 55.7 | 82.7 | 47.6 | 54.5 | 83.8 | 48.5 | 53.2 | 74.3 | 47.9 |
| 19. | 09:00-10:00 | 56.8 | 78.8 | 47.3 | 51.1 | 72.5 | 46.6 | 50.9 | 72.4 | 47.5 |
| 20. | 10:00-11:00 | 55.8 | 75.7 | 48.9 | 54.5 | 71.4 | 45.8 | 52.2 | 70.5 | 48.8 |
| 21. | 11:00-12:00 | 53.3 | 72.7 | 45.4 | 54.7 | 86.0 | 47.3 | 52.6 | 72.5 | 48.8 |
| 22. | 12:00-13:00 | 49.6 | 68.3 | 43.1 | 50.5 | 70.9 | 46.1 | 53.6 | 83.3 | 47.9 |
| 23. | 13:00-14:00 | 47.8 | 68.0 | 43.3 | 50.8 | 73.7 | 46.1 | 53.4 | 85.9 | 48.5 |
| 24. | 14:00-15:00 | 53.7 | 85.7 | 44.3 | 53.7 | 83.4 | 47.1 | 54.8 | 82.9 | 49.2 |
| Leq 24 hr | | 53.2 | - | - | 52.9 | - | - | 52.6 | - | - |
| Lmax | | - | 88.5 | - | - | 86.0 | - | - | 87.5 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 59.3 | - | - | 59.5 | - | - | 58.8 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1230/2023/17-27

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 5, 2023

Sampling Date : April 19-26, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : Sound Level

Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | | | | |
|----------------------------|-------------|---|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | ริมรั้วโครงการบริเวณใกล้เสียงชุมชนบ้านสีแยกเขาดิน | | | | | | | | | | | |
| | | 19-20/04/23 | | | 20-21/04/23 | | | 21-22/04/23 | | | 22-23/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 15:00-16:00 | 67.1 | 81.9 | 66.7 | 68.2 | 68.8 | 67.9 | 66.9 | 73.6 | 65.9 | 67.4 | 75.0 | 67.2 |
| 2. | 16:00-17:00 | 67.0 | 79.5 | 66.8 | 68.2 | 69.2 | 67.9 | 67.8 | 70.0 | 67.5 | 67.4 | 68.1 | 67.2 |
| 3. | 17:00-18:00 | 67.1 | 68.3 | 66.7 | 68.1 | 69.0 | 67.8 | 67.8 | 72.4 | 67.3 | 67.5 | 68.7 | 67.3 |
| 4. | 18:00-19:00 | 67.1 | 67.9 | 66.8 | 68.0 | 68.9 | 67.7 | 67.9 | 68.7 | 67.6 | 67.6 | 67.9 | 67.4 |
| 5. | 19:00-20:00 | 67.1 | 69.6 | 66.9 | 68.1 | 69.7 | 67.9 | 68.0 | 68.7 | 67.7 | 67.7 | 68.2 | 67.5 |
| 6. | 20:00-21:00 | 67.2 | 67.6 | 67.0 | 68.2 | 68.9 | 68.0 | 67.9 | 69.0 | 67.7 | 67.9 | 68.1 | 67.6 |
| 7. | 21:00-22:00 | 67.3 | 76.1 | 67.1 | 68.3 | 68.7 | 68.1 | 68.0 | 68.4 | 67.8 | 68.0 | 68.5 | 67.9 |
| 8. | 22:00-23:00 | 67.3 | 67.6 | 67.2 | 68.3 | 69.0 | 68.1 | 68.3 | 68.9 | 67.9 | 68.0 | 69.1 | 67.9 |
| 9. | 23:00-00:00 | 67.2 | 67.5 | 67.0 | 68.2 | 70.2 | 68.0 | 68.0 | 72.1 | 67.8 | 67.9 | 68.3 | 67.7 |
| 10. | 00:00-01:00 | 67.3 | 67.7 | 67.2 | 68.5 | 71.4 | 68.3 | 68.0 | 68.7 | 67.8 | 67.9 | 68.3 | 67.8 |
| 11. | 01:00-02:00 | 67.0 | 67.9 | 66.7 | 68.1 | 70.7 | 68.0 | 68.0 | 68.3 | 67.8 | 68.1 | 69.8 | 67.9 |
| 12. | 02:00-03:00 | 67.1 | 67.6 | 66.9 | 67.9 | 70.6 | 67.6 | 67.9 | 68.2 | 67.8 | 68.0 | 68.4 | 67.9 |
| 13. | 03:00-04:00 | 67.2 | 67.7 | 67.0 | 68.1 | 69.7 | 67.9 | 67.9 | 68.6 | 67.7 | 68.0 | 68.3 | 67.9 |
| 14. | 04:00-05:00 | 67.5 | 67.9 | 67.3 | 68.1 | 68.7 | 67.8 | 68.0 | 68.8 | 67.6 | 68.1 | 69.4 | 67.8 |
| 15. | 05:00-06:00 | 67.5 | 67.9 | 67.3 | 68.3 | 68.8 | 68.1 | 68.0 | 69.2 | 67.6 | 68.0 | 68.8 | 67.8 |
| 16. | 06:00-07:00 | 67.3 | 67.8 | 67.0 | 68.4 | 68.9 | 68.3 | 67.9 | 72.8 | 67.5 | 67.7 | 69.6 | 67.5 |
| 17. | 07:00-08:00 | 67.4 | 69.2 | 67.2 | 68.5 | 69.2 | 68.4 | 67.9 | 76.2 | 67.4 | 67.7 | 77.0 | 67.3 |
| 18. | 08:00-09:00 | 67.5 | 69.1 | 67.4 | 68.4 | 68.8 | 68.3 | 67.9 | 72.1 | 67.5 | 67.7 | 72.7 | 67.3 |
| 19. | 09:00-10:00 | 67.3 | 72.7 | 66.9 | 68.3 | 69.1 | 68.1 | 67.8 | 69.6 | 67.4 | 67.8 | 71.4 | 67.5 |
| 20. | 10:00-11:00 | 68.2 | 69.1 | 67.8 | 68.3 | 69.9 | 68.0 | 67.6 | 68.7 | 67.2 | 67.5 | 68.6 | 67.2 |
| 21. | 11:00-12:00 | 68.3 | 68.9 | 68.1 | 68.5 | 81.9 | 68.2 | 67.6 | 68.9 | 67.2 | 67.5 | 68.2 | 67.2 |
| 22. | 12:00-13:00 | 68.3 | 68.9 | 68.0 | 67.5 | 69.9 | 66.9 | 67.7 | 69.6 | 67.4 | 67.5 | 68.4 | 67.2 |
| 23. | 13:00-14:00 | 68.2 | 68.9 | 68.0 | 67.2 | 68.2 | 66.9 | 67.6 | 69.2 | 67.3 | 67.5 | 68.4 | 67.2 |
| 24. | 14:00-15:00 | 68.2 | 69.1 | 67.9 | 67.1 | 68.2 | 66.8 | 67.6 | 76.2 | 67.1 | 67.5 | 70.4 | 67.1 |
| Leq 24 hr | | 67.5 | - | - | 68.1 | - | - | 67.8 | - | - | 67.8 | - | - |
| Lmax | | - | 81.9 | - | - | 81.9 | - | - | 76.2 | - | - | 77.0 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 73.7 | - | - | 74.6 | - | - | 74.4 | - | - | 74.3 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/18-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150 Type of Sample : Sound Level
Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | |
|----------------------------|-------------|--|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | | | | | |
| | | 23-24/04/23 | | | 24-25/04/23 | | | 25-26/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 15:00-16:00 | 67.6 | 82.5 | 67.3 | 68.8 | 69.4 | 68.5 | 68.2 | 69.6 | 67.8 |
| 2. | 16:00-17:00 | 67.6 | 80.1 | 67.4 | 68.8 | 69.6 | 68.5 | 68.4 | 73.0 | 68.1 |
| 3. | 17:00-18:00 | 67.7 | 68.9 | 67.3 | 68.7 | 69.8 | 68.4 | 68.5 | 69.2 | 68.2 |
| 4. | 18:00-19:00 | 67.7 | 68.5 | 67.4 | 68.6 | 69.1 | 68.3 | 68.5 | 69.3 | 68.3 |
| 5. | 19:00-20:00 | 67.7 | 70.2 | 67.5 | 68.6 | 70.3 | 68.5 | 68.5 | 69.6 | 68.2 |
| 6. | 20:00-21:00 | 67.8 | 68.2 | 67.6 | 68.8 | 69.5 | 68.6 | 68.8 | 69.5 | 68.5 |
| 7. | 21:00-22:00 | 67.8 | 68.2 | 67.6 | 68.9 | 69.3 | 68.7 | 68.7 | 69.5 | 68.4 |
| 8. | 22:00-23:00 | 68.0 | 76.7 | 67.8 | 68.9 | 69.5 | 68.7 | 68.6 | 72.7 | 68.4 |
| 9. | 23:00-00:00 | 67.8 | 68.1 | 67.6 | 68.8 | 70.8 | 68.6 | 68.6 | 69.2 | 68.4 |
| 10. | 00:00-01:00 | 67.9 | 68.3 | 67.8 | 69.0 | 72.0 | 68.9 | 68.6 | 68.9 | 68.4 |
| 11. | 01:00-02:00 | 67.6 | 68.5 | 67.3 | 68.8 | 71.3 | 68.8 | 68.5 | 68.8 | 68.3 |
| 12. | 02:00-03:00 | 67.7 | 68.2 | 67.5 | 68.5 | 71.2 | 68.2 | 68.6 | 69.4 | 68.3 |
| 13. | 03:00-04:00 | 67.8 | 68.3 | 67.6 | 68.7 | 70.6 | 68.4 | 68.6 | 69.4 | 68.2 |
| 14. | 04:00-05:00 | 68.0 | 68.4 | 67.9 | 68.7 | 69.9 | 68.4 | 68.5 | 69.8 | 68.2 |
| 15. | 05:00-06:00 | 68.1 | 68.5 | 68.0 | 68.9 | 69.4 | 68.7 | 68.5 | 73.4 | 68.0 |
| 16. | 06:00-07:00 | 68.0 | 68.4 | 67.7 | 69.0 | 69.4 | 68.8 | 68.5 | 76.8 | 68.0 |
| 17. | 07:00-08:00 | 68.0 | 69.8 | 67.7 | 69.2 | 69.8 | 69.0 | 68.6 | 72.7 | 68.2 |
| 18. | 08:00-09:00 | 68.2 | 69.7 | 68.0 | 69.0 | 69.4 | 68.9 | 68.2 | 69.4 | 67.9 |
| 19. | 09:00-10:00 | 67.9 | 68.8 | 67.6 | 68.9 | 69.7 | 68.7 | 68.2 | 69.3 | 67.8 |
| 20. | 10:00-11:00 | 68.6 | 73.3 | 68.4 | 68.8 | 70.5 | 68.6 | 68.3 | 69.5 | 68.0 |
| 21. | 11:00-12:00 | 68.9 | 69.5 | 68.7 | 67.8 | 68.7 | 67.5 | 68.3 | 70.2 | 67.9 |
| 22. | 12:00-13:00 | 68.9 | 69.5 | 68.7 | 67.7 | 68.8 | 67.4 | 68.2 | 70.0 | 67.9 |
| 23. | 13:00-14:00 | 68.9 | 69.5 | 68.6 | 67.6 | 68.8 | 67.3 | 68.1 | 76.8 | 67.7 |
| 24. | 14:00-15:00 | 68.8 | 69.7 | 68.5 | 68.0 | 74.2 | 66.7 | 68.1 | 75.6 | 67.8 |
| Leq 24 hr | | 68.1 | - | - | 68.7 | - | - | 68.4 | - | - |
| Lmax | | - | 82.5 | - | - | 74.2 | - | - | 76.8 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 74.3 | - | - | 75.2 | - | - | 74.9 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/19-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน Type of Sample : Sound Level
จังหวัดพิจิตร 66150
Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | | | | |
|----------------------------|-------------|---|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระดิน | | | | | | | | | | | |
| | | 19-20/04/23 | | | 20-21/04/23 | | | 21-22/04/23 | | | 22-23/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 15:00-16:00 | 67.3 | 78.4 | 66.8 | 67.4 | 68.7 | 67.0 | 67.4 | 71.7 | 66.9 | 67.5 | 71.9 | 67.0 |
| 2. | 16:00-17:00 | 67.3 | 75.0 | 66.8 | 67.3 | 73.2 | 66.9 | 67.2 | 71.0 | 66.7 | 67.4 | 69.0 | 67.0 |
| 3. | 17:00-18:00 | 67.3 | 68.7 | 66.9 | 67.3 | 75.5 | 66.8 | 67.0 | 71.8 | 66.5 | 67.3 | 69.2 | 66.9 |
| 4. | 18:00-19:00 | 67.2 | 69.7 | 66.8 | 67.2 | 71.5 | 66.8 | 66.8 | 72.0 | 66.5 | 67.1 | 73.1 | 66.7 |
| 5. | 19:00-20:00 | 67.4 | 79.7 | 66.8 | 67.2 | 70.8 | 66.8 | 66.6 | 74.5 | 66.2 | 67.1 | 75.4 | 66.7 |
| 6. | 20:00-21:00 | 67.0 | 69.8 | 66.6 | 66.8 | 74.2 | 66.4 | 67.4 | 81.2 | 66.4 | 67.2 | 71.4 | 66.7 |
| 7. | 21:00-22:00 | 67.2 | 70.5 | 66.8 | 67.0 | 77.5 | 66.5 | 67.1 | 85.6 | 66.8 | 66.8 | 74.1 | 66.4 |
| 8. | 22:00-23:00 | 67.0 | 69.5 | 66.7 | 66.8 | 69.8 | 66.4 | 67.0 | 68.8 | 66.6 | 66.9 | 77.4 | 66.3 |
| 9. | 23:00-00:00 | 67.2 | 71.9 | 66.8 | 66.7 | 67.8 | 66.4 | 67.2 | 68.7 | 66.8 | 66.8 | 69.5 | 66.4 |
| 10. | 00:00-01:00 | 67.4 | 70.3 | 67.0 | 67.1 | 68.3 | 66.9 | 67.4 | 68.1 | 67.1 | 66.6 | 69.7 | 66.2 |
| 11. | 01:00-02:00 | 67.3 | 68.0 | 67.1 | 67.2 | 67.9 | 66.9 | 67.4 | 71.4 | 67.0 | 66.8 | 68.2 | 66.5 |
| 12. | 02:00-03:00 | 67.2 | 67.9 | 67.0 | 67.5 | 68.1 | 67.2 | 67.6 | 68.4 | 67.3 | 67.1 | 67.8 | 66.8 |
| 13. | 03:00-04:00 | 67.4 | 68.3 | 67.2 | 67.5 | 68.1 | 67.3 | 67.6 | 68.6 | 67.3 | 67.3 | 67.9 | 67.1 |
| 14. | 04:00-05:00 | 67.7 | 68.3 | 67.4 | 67.4 | 68.4 | 67.0 | 67.8 | 68.4 | 67.5 | 67.3 | 68.0 | 67.0 |
| 15. | 05:00-06:00 | 67.7 | 68.3 | 67.4 | 67.3 | 68.4 | 67.0 | 67.8 | 68.5 | 67.5 | 67.4 | 68.1 | 67.1 |
| 16. | 06:00-07:00 | 67.7 | 68.4 | 67.4 | 67.4 | 68.4 | 67.1 | 67.8 | 68.4 | 67.6 | 67.2 | 68.3 | 66.8 |
| 17. | 07:00-08:00 | 67.5 | 68.4 | 67.2 | 67.7 | 68.3 | 67.5 | 68.1 | 71.7 | 67.8 | 67.2 | 68.1 | 66.9 |
| 18. | 08:00-09:00 | 67.6 | 68.4 | 67.3 | 68.0 | 68.6 | 67.8 | 68.0 | 69.0 | 67.7 | 67.5 | 68.3 | 67.3 |
| 19. | 09:00-10:00 | 67.8 | 73.4 | 67.7 | 67.9 | 71.6 | 67.7 | 68.3 | 69.7 | 67.8 | 67.7 | 68.3 | 67.5 |
| 20. | 10:00-11:00 | 67.9 | 70.2 | 67.6 | 67.9 | 71.9 | 67.7 | 67.5 | 68.2 | 67.2 | 67.9 | 68.6 | 67.7 |
| 21. | 11:00-12:00 | 67.7 | 69.1 | 67.4 | 67.8 | 69.4 | 67.4 | 67.8 | 73.3 | 67.6 | 67.8 | 71.8 | 67.6 |
| 22. | 12:00-13:00 | 67.6 | 74.9 | 67.2 | 67.7 | 70.8 | 67.3 | 67.7 | 70.1 | 67.5 | 67.8 | 69.3 | 67.5 |
| 23. | 13:00-14:00 | 67.6 | 68.9 | 67.2 | 67.6 | 69.3 | 67.1 | 67.5 | 74.8 | 67.2 | 66.8 | 77.8 | 66.3 |
| 24. | 14:00-15:00 | 67.6 | 72.0 | 67.1 | 67.6 | 69.8 | 67.1 | 67.5 | 69.3 | 67.1 | 66.7 | 74.4 | 66.2 |
| Leq 24 hr | | 67.4 | - | - | 67.4 | - | - | 67.5 | - | - | 67.2 | - | - |
| Lmax | | - | 79.7 | - | - | 77.5 | - | - | 85.6 | - | - | 77.8 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 73.8 | - | - | 73.7 | - | - | 73.9 | - | - | 73.5 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/20-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน Type of Sample : Sound Level
จังหวัดพิจิตร 66150
Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | |
|----------------------------|-------------|--|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระถิ่น | | | | | | | | |
| | | 23-24/04/23 | | | 24-25/04/23 | | | 25-26/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 15:00-16:00 | 66.7 | 68.1 | 66.3 | 66.6 | 74.9 | 66.2 | 66.4 | 71.2 | 65.9 |
| 2. | 16:00-17:00 | 66.6 | 69.1 | 66.2 | 66.6 | 73.2 | 66.2 | 66.3 | 71.4 | 65.9 |
| 3. | 17:00-18:00 | 66.8 | 79.1 | 66.2 | 66.6 | 70.5 | 66.2 | 66.0 | 73.9 | 65.6 |
| 4. | 18:00-19:00 | 66.4 | 69.2 | 66.0 | 66.3 | 73.6 | 65.8 | 66.7 | 80.6 | 65.5 |
| 5. | 19:00-20:00 | 66.6 | 69.9 | 66.2 | 66.4 | 76.9 | 65.9 | 66.6 | 85.0 | 66.2 |
| 6. | 20:00-21:00 | 66.4 | 68.9 | 66.1 | 66.2 | 69.2 | 65.8 | 66.4 | 68.4 | 65.9 |
| 7. | 21:00-22:00 | 66.5 | 71.3 | 66.2 | 66.1 | 67.2 | 65.8 | 66.6 | 68.1 | 66.2 |
| 8. | 22:00-23:00 | 66.8 | 69.7 | 66.4 | 66.5 | 67.7 | 66.2 | 66.8 | 67.5 | 66.5 |
| 9. | 23:00-00:00 | 66.7 | 67.4 | 66.5 | 66.6 | 67.3 | 66.3 | 66.8 | 70.8 | 66.4 |
| 10. | 00:00-01:00 | 66.6 | 67.3 | 66.4 | 66.9 | 67.5 | 66.6 | 67.0 | 67.8 | 66.7 |
| 11. | 01:00-02:00 | 66.8 | 67.7 | 66.6 | 66.9 | 67.5 | 66.7 | 67.0 | 68.0 | 66.7 |
| 12. | 02:00-03:00 | 67.0 | 67.7 | 66.8 | 66.8 | 67.6 | 66.5 | 67.2 | 67.8 | 66.9 |
| 13. | 03:00-04:00 | 67.1 | 67.7 | 66.9 | 66.7 | 67.8 | 66.4 | 67.2 | 67.9 | 66.9 |
| 14. | 04:00-05:00 | 67.1 | 67.8 | 66.8 | 66.8 | 67.8 | 66.4 | 67.2 | 67.8 | 67.0 |
| 15. | 05:00-06:00 | 66.9 | 67.8 | 66.6 | 67.1 | 67.7 | 66.9 | 67.5 | 71.1 | 67.2 |
| 16. | 06:00-07:00 | 67.0 | 67.8 | 66.7 | 67.4 | 68.0 | 67.2 | 67.4 | 68.4 | 67.1 |
| 17. | 07:00-08:00 | 67.1 | 68.1 | 66.9 | 67.4 | 71.0 | 67.1 | 67.7 | 69.1 | 67.2 |
| 18. | 08:00-09:00 | 67.3 | 72.8 | 67.0 | 67.3 | 71.3 | 67.1 | 66.9 | 67.6 | 66.6 |
| 19. | 09:00-10:00 | 67.1 | 68.5 | 66.9 | 67.2 | 68.8 | 66.9 | 67.2 | 72.7 | 67.0 |
| 20. | 10:00-11:00 | 67.0 | 74.3 | 66.6 | 67.1 | 70.2 | 66.7 | 67.1 | 69.5 | 66.9 |
| 21. | 11:00-12:00 | 67.0 | 68.3 | 66.6 | 67.0 | 68.7 | 66.6 | 66.9 | 74.2 | 66.6 |
| 22. | 12:00-13:00 | 67.0 | 71.4 | 66.5 | 67.0 | 69.2 | 66.5 | 66.9 | 68.7 | 66.5 |
| 23. | 13:00-14:00 | 66.8 | 68.1 | 66.4 | 66.8 | 71.1 | 66.3 | 66.9 | 71.3 | 66.4 |
| 24. | 14:00-15:00 | 66.7 | 72.6 | 66.3 | 66.6 | 70.4 | 66.1 | 66.8 | 68.4 | 66.4 |
| Leq 24 hr | | 66.8 | - | - | 66.8 | - | - | 66.9 | - | - |
| Lmax | | - | 79.1 | - | - | 76.9 | - | - | 85.0 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 73.3 | - | - | 73.3 | - | - | 73.5 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1230/2023/21-27

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 5, 2023

Sampling Date : April 19-26, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : Sound Level

Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | | | | |
|----------------------------|-------------|--|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | | | | | | | | |
| | | 19-20/04/23 | | | 20-21/04/23 | | | 21-22/04/23 | | | 22-23/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 15:00-16:00 | 67.8 | 90.6 | 65.4 | 66.4 | 80.6 | 65.0 | 64.5 | 67.1 | 64.1 | 64.7 | 66.3 | 64.4 |
| 2. | 16:00-17:00 | 66.4 | 81.3 | 64.8 | 65.6 | 79.0 | 65.0 | 64.8 | 73.4 | 64.4 | 64.9 | 66.1 | 64.6 |
| 3. | 17:00-18:00 | 65.7 | 77.7 | 64.8 | 67.3 | 76.7 | 64.7 | 65.4 | 76.9 | 64.6 | 65.7 | 77.0 | 64.5 |
| 4. | 18:00-19:00 | 65.1 | 67.5 | 64.7 | 65.2 | 67.6 | 64.8 | 64.9 | 72.2 | 64.4 | 64.5 | 65.7 | 64.2 |
| 5. | 19:00-20:00 | 65.3 | 74.2 | 64.9 | 65.5 | 67.1 | 65.2 | 64.5 | 66.0 | 64.1 | 64.6 | 65.7 | 64.2 |
| 6. | 20:00-21:00 | 65.6 | 67.0 | 65.3 | 65.7 | 72.2 | 65.4 | 64.8 | 76.8 | 64.3 | 64.6 | 66.0 | 64.3 |
| 7. | 21:00-22:00 | 66.3 | 77.7 | 65.5 | 66.5 | 77.8 | 65.2 | 64.1 | 74.0 | 63.6 | 64.2 | 67.1 | 63.7 |
| 8. | 22:00-23:00 | 65.6 | 73.0 | 65.2 | 65.3 | 66.5 | 65.0 | 64.3 | 66.2 | 63.9 | 64.3 | 74.3 | 63.8 |
| 9. | 23:00-00:00 | 65.3 | 66.8 | 65.0 | 65.4 | 66.5 | 65.1 | 64.4 | 66.0 | 64.0 | 64.4 | 74.7 | 64.0 |
| 10. | 00:00-01:00 | 65.6 | 77.6 | 65.1 | 65.4 | 66.8 | 65.1 | 64.9 | 66.2 | 64.5 | 64.5 | 65.9 | 64.1 |
| 11. | 01:00-02:00 | 64.9 | 74.8 | 64.4 | 64.9 | 67.9 | 64.5 | 64.8 | 65.9 | 64.4 | 64.6 | 66.2 | 64.2 |
| 12. | 02:00-03:00 | 65.1 | 67.0 | 64.7 | 65.2 | 75.1 | 64.7 | 64.7 | 66.2 | 64.2 | 66.6 | 73.0 | 64.3 |
| 13. | 03:00-04:00 | 65.2 | 66.8 | 64.8 | 65.2 | 75.5 | 64.8 | 66.3 | 75.1 | 64.5 | 64.7 | 72.1 | 64.2 |
| 14. | 04:00-05:00 | 65.7 | 67.0 | 65.3 | 65.3 | 66.7 | 64.9 | 66.1 | 77.2 | 64.5 | 65.9 | 79.4 | 64.3 |
| 15. | 05:00-06:00 | 65.6 | 67.0 | 65.2 | 65.4 | 67.0 | 65.0 | 64.5 | 70.3 | 63.9 | 65.0 | 77.0 | 64.4 |
| 16. | 06:00-07:00 | 65.5 | 66.8 | 65.0 | 67.3 | 73.8 | 65.1 | 65.3 | 79.4 | 64.3 | 65.0 | 68.6 | 64.5 |
| 17. | 07:00-08:00 | 67.1 | 75.9 | 65.4 | 65.5 | 69.6 | 65.0 | 66.7 | 79.1 | 64.5 | 67.0 | 90.2 | 64.5 |
| 18. | 08:00-09:00 | 66.8 | 78.0 | 65.3 | 66.7 | 80.2 | 65.2 | 65.2 | 80.5 | 64.3 | 66.5 | 80.9 | 64.5 |
| 19. | 09:00-10:00 | 65.3 | 71.1 | 64.7 | 65.8 | 77.8 | 65.2 | 64.7 | 74.6 | 64.0 | 65.3 | 77.3 | 64.4 |
| 20. | 10:00-11:00 | 66.3 | 80.2 | 65.1 | 65.8 | 72.1 | 65.3 | 65.1 | 78.1 | 64.1 | 64.7 | 67.1 | 64.3 |
| 21. | 11:00-12:00 | 67.4 | 79.9 | 65.3 | 66.9 | 89.8 | 64.8 | 65.6 | 79.8 | 64.2 | 64.9 | 67.5 | 64.5 |
| 22. | 12:00-13:00 | 66.1 | 81.3 | 65.2 | 65.8 | 80.5 | 64.0 | 64.8 | 78.2 | 64.2 | 65.2 | 73.8 | 64.8 |
| 23. | 13:00-14:00 | 65.4 | 75.4 | 64.8 | 64.9 | 76.9 | 64.0 | 66.5 | 75.9 | 63.9 | 65.6 | 76.0 | 65.0 |
| 24. | 14:00-15:00 | 65.9 | 78.9 | 64.9 | 64.3 | 66.7 | 63.9 | 64.4 | 66.8 | 64.0 | 65.5 | 77.3 | 64.9 |
| Leq 24 hr | | 65.9 | - | - | 65.8 | - | - | 65.1 | - | - | 65.2 | - | - |
| Lmax | | - | 90.6 | - | - | 89.8 | - | - | 80.5 | - | - | 90.2 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 71.9 | - | - | 72.0 | - | - | 71.5 | - | - | 71.5 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีทีอี ไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/22-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150 Type of Sample : Sound Level
Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | |
|----------------------------|-------------|--|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | | | | | |
| | | 23-24/04/23 | | | 24-25/04/23 | | | 25-26/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 15:00-16:00 | 64.9 | 66.4 | 64.5 | 65.0 | 66.1 | 64.6 | 64.0 | 65.6 | 63.6 |
| 2. | 16:00-17:00 | 65.3 | 77.2 | 64.7 | 65.0 | 66.4 | 64.7 | 64.4 | 65.8 | 64.1 |
| 3. | 17:00-18:00 | 64.5 | 74.4 | 64.0 | 64.6 | 67.5 | 64.1 | 64.5 | 65.5 | 64.1 |
| 4. | 18:00-19:00 | 64.7 | 66.6 | 64.2 | 64.7 | 74.7 | 64.2 | 64.3 | 65.8 | 63.8 |
| 5. | 19:00-20:00 | 64.8 | 66.4 | 64.4 | 64.8 | 75.1 | 64.4 | 65.9 | 74.7 | 63.9 |
| 6. | 20:00-21:00 | 65.2 | 66.6 | 64.9 | 64.9 | 66.3 | 64.5 | 65.5 | 76.8 | 64.2 |
| 7. | 21:00-22:00 | 65.2 | 66.3 | 64.9 | 65.0 | 66.6 | 64.6 | 64.3 | 76.0 | 63.5 |
| 8. | 22:00-23:00 | 65.1 | 66.6 | 64.6 | 66.7 | 73.4 | 64.7 | 64.9 | 79.0 | 63.8 |
| 9. | 23:00-00:00 | 66.7 | 75.5 | 64.8 | 65.4 | 73.0 | 64.6 | 66.3 | 78.7 | 64.0 |
| 10. | 00:00-01:00 | 66.5 | 77.6 | 65.0 | 66.2 | 79.8 | 64.7 | 64.4 | 68.6 | 63.9 |
| 11. | 01:00-02:00 | 64.9 | 70.7 | 64.3 | 65.5 | 77.4 | 64.7 | 64.8 | 80.1 | 63.8 |
| 12. | 02:00-03:00 | 65.7 | 79.8 | 64.7 | 65.4 | 69.0 | 64.9 | 64.7 | 77.7 | 63.7 |
| 13. | 03:00-04:00 | 67.1 | 79.5 | 64.9 | 66.2 | 89.4 | 64.3 | 64.9 | 79.4 | 63.8 |
| 14. | 04:00-05:00 | 65.4 | 77.8 | 64.7 | 65.9 | 80.1 | 63.8 | 64.8 | 79.0 | 63.8 |
| 15. | 05:00-06:00 | 65.4 | 80.9 | 64.5 | 64.5 | 76.5 | 63.6 | 65.9 | 75.5 | 63.6 |
| 16. | 06:00-07:00 | 65.5 | 78.5 | 64.5 | 63.9 | 66.4 | 63.4 | 64.4 | 74.0 | 63.6 |
| 17. | 07:00-08:00 | 65.9 | 80.2 | 64.6 | 64.1 | 66.7 | 63.7 | 64.2 | 65.9 | 63.9 |
| 18. | 08:00-09:00 | 65.3 | 78.6 | 64.6 | 64.4 | 73.0 | 64.0 | 64.5 | 65.7 | 64.1 |
| 19. | 09:00-10:00 | 66.9 | 76.3 | 64.4 | 64.8 | 75.2 | 64.2 | 65.4 | 76.6 | 64.1 |
| 20. | 10:00-11:00 | 64.9 | 72.8 | 64.4 | 64.7 | 76.5 | 64.1 | 64.1 | 65.3 | 63.8 |
| 21. | 11:00-12:00 | 65.0 | 66.7 | 64.7 | 64.1 | 65.6 | 63.7 | 64.2 | 65.2 | 63.8 |
| 22. | 12:00-13:00 | 65.3 | 66.5 | 64.9 | 64.5 | 76.4 | 63.9 | 64.3 | 65.3 | 64.0 |
| 23. | 13:00-14:00 | 66.2 | 77.4 | 64.9 | 63.7 | 73.6 | 63.2 | 63.8 | 66.7 | 63.3 |
| 24. | 14:00-15:00 | 64.9 | 66.1 | 64.6 | 63.9 | 66.2 | 63.4 | 63.9 | 73.9 | 63.4 |
| Leq 24 hr | | 65.5 | - | - | 65.0 | - | - | 64.7 | - | - |
| Lmax | | - | 80.9 | - | - | 89.4 | - | - | 80.1 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 72.2 | - | - | 71.9 | - | - | 71.4 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตรไฮบริดเอนเนอจี จำกัด Report No. : 1230/2023/23-27
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร Report Date : May 5, 2023
(ระยะดำเนินการ) Sampling Date : April 19-26, 2023
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน Type of Sample : Sound Level
จังหวัดพิจิตร 66150
Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | | | | |
|----------------------------|-------------|--|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือซุด | | | | | | | | | | | |
| | | 19-20/04/23 | | | 20-21/04/23 | | | 21-22/04/23 | | | 22-23/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 15:00-16:00 | 56.0 | 85.3 | 46.6 | 53.2 | 97.0 | 50.5 | 51.7 | 73.8 | 50.2 | 53.4 | 77.7 | 47.2 |
| 2. | 16:00-17:00 | 52.9 | 76.3 | 47.4 | 54.7 | 82.1 | 51.2 | 52.2 | 88.4 | 48.2 | 52.6 | 81.6 | 45.8 |
| 3. | 17:00-18:00 | 51.4 | 71.8 | 48.1 | 52.8 | 74.6 | 50.4 | 47.8 | 65.5 | 47.0 | 49.5 | 76.3 | 44.5 |
| 4. | 18:00-19:00 | 51.8 | 72.3 | 49.8 | 52.2 | 69.6 | 49.6 | 46.9 | 56.5 | 46.1 | 51.0 | 79.5 | 44.9 |
| 5. | 19:00-20:00 | 50.9 | 56.6 | 48.9 | 51.2 | 89.4 | 48.6 | 46.4 | 65.8 | 45.8 | 49.9 | 78.1 | 47.1 |
| 6. | 20:00-21:00 | 47.9 | 67.1 | 46.7 | 48.8 | 60.5 | 47.3 | 46.5 | 60.3 | 45.9 | 48.0 | 64.9 | 47.1 |
| 7. | 21:00-22:00 | 54.4 | 72.4 | 46.2 | 48.1 | 65.7 | 46.9 | 46.4 | 64.7 | 45.4 | 47.5 | 59.9 | 46.8 |
| 8. | 22:00-23:00 | 56.8 | 74.7 | 51.7 | 48.4 | 63.7 | 46.2 | 45.5 | 56.2 | 44.9 | 46.6 | 66.8 | 45.4 |
| 9. | 23:00-00:00 | 56.5 | 71.5 | 46.3 | 52.0 | 61.2 | 49.5 | 49.6 | 70.3 | 45.1 | 45.3 | 59.4 | 44.7 |
| 10. | 00:00-01:00 | 53.0 | 71.6 | 44.8 | 53.2 | 71.2 | 48.4 | 52.3 | 70.9 | 44.1 | 45.0 | 65.2 | 44.4 |
| 11. | 01:00-02:00 | 58.3 | 82.0 | 47.9 | 54.0 | 71.4 | 45.9 | 58.2 | 81.3 | 47.2 | 45.0 | 53.1 | 44.5 |
| 12. | 02:00-03:00 | 58.6 | 73.8 | 47.6 | 56.6 | 73.5 | 46.0 | 57.9 | 73.1 | 46.9 | 45.9 | 68.5 | 44.7 |
| 13. | 03:00-04:00 | 53.9 | 73.6 | 45.9 | 58.0 | 80.4 | 48.0 | 53.2 | 72.9 | 45.2 | 46.1 | 67.6 | 44.4 |
| 14. | 04:00-05:00 | 55.9 | 74.1 | 47.4 | 52.9 | 70.7 | 43.6 | 53.6 | 79.1 | 44.5 | 48.0 | 68.9 | 44.1 |
| 15. | 05:00-06:00 | 59.8 | 86.0 | 51.8 | 53.8 | 78.1 | 46.1 | 51.3 | 74.4 | 44.2 | 51.5 | 70.7 | 43.6 |
| 16. | 06:00-07:00 | 55.3 | 80.3 | 46.8 | 55.3 | 73.6 | 46.1 | 50.1 | 70.6 | 44.4 | 54.7 | 81.5 | 44.8 |
| 17. | 07:00-08:00 | 56.4 | 74.1 | 47.1 | 53.1 | 75.2 | 46.4 | 50.2 | 71.2 | 45.0 | 57.1 | 73.2 | 47.8 |
| 18. | 08:00-09:00 | 55.3 | 82.0 | 43.4 | 55.0 | 73.0 | 45.6 | 49.1 | 68.5 | 44.3 | 56.9 | 77.7 | 46.2 |
| 19. | 09:00-10:00 | 52.2 | 75.9 | 45.3 | 53.5 | 73.7 | 46.6 | 55.0 | 73.8 | 47.6 | 54.6 | 74.1 | 45.6 |
| 20. | 10:00-11:00 | 52.4 | 76.4 | 47.0 | 52.2 | 72.2 | 45.4 | 54.9 | 74.3 | 46.2 | 54.9 | 87.9 | 45.2 |
| 21. | 11:00-12:00 | 51.6 | 99.3 | 47.2 | 48.5 | 74.1 | 44.3 | 49.7 | 74.7 | 45.4 | 55.6 | 75.3 | 46.0 |
| 22. | 12:00-13:00 | 49.6 | 72.6 | 46.7 | 49.1 | 77.0 | 44.5 | 49.5 | 71.2 | 44.7 | 51.8 | 70.0 | 44.8 |
| 23. | 13:00-14:00 | 54.7 | 76.7 | 48.0 | 50.1 | 67.0 | 45.7 | 49.9 | 77.6 | 43.7 | 56.0 | 75.3 | 45.4 |
| 24. | 14:00-15:00 | 52.5 | 71.5 | 47.8 | 50.1 | 69.4 | 48.7 | 53.3 | 79.2 | 45.6 | 53.9 | 82.6 | 45.0 |
| Leq 24 hr | | 55.0 | - | - | 53.1 | - | - | 52.3 | - | - | 52.5 | - | - |
| Lmax | | - | 99.3 | - | - | 97.0 | - | - | 88.4 | - | - | 87.9 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 63.0 | - | - | 60.7 | - | - | 60.1 | - | - | 56.5 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1230/2023/24-27

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 5, 2023

Sampling Date : April 19-26, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : Sound Level

Job No. : S660183/Apr

| Item | Time | Result (dB (A)) | | | | | | | | |
|----------------------------|-------------|--|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | | ริมรั้วโครงการบริเวณใกล้เสียงชุมชนบ้านหนองเครือซูด | | | | | | | | |
| | | 23-24/04/23 | | | 24-25/04/23 | | | 25-26/04/23 | | |
| | | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 1. | 15:00-16:00 | 56.0 | 70.9 | 45.9 | 50.6 | 63.3 | 50.1 | 48.3 | 69.9 | 44.0 |
| 2. | 16:00-17:00 | 55.8 | 71.5 | 45.7 | 51.7 | 88.4 | 47.8 | 48.6 | 78.4 | 45.9 |
| 3. | 17:00-18:00 | 53.1 | 71.6 | 46.2 | 47.3 | 56.5 | 46.5 | 48.4 | 62.6 | 47.1 |
| 4. | 18:00-19:00 | 49.8 | 72.5 | 45.8 | 46.4 | 65.8 | 45.9 | 49.7 | 64.7 | 48.7 |
| 5. | 19:00-20:00 | 50.6 | 76.5 | 47.0 | 46.4 | 50.9 | 45.9 | 50.1 | 70.4 | 49.0 |
| 6. | 20:00-21:00 | 49.4 | 71.5 | 46.7 | 46.4 | 60.3 | 45.6 | 49.7 | 74.8 | 48.5 |
| 7. | 21:00-22:00 | 45.4 | 67.6 | 44.5 | 46.3 | 64.7 | 45.1 | 49.9 | 73.8 | 48.0 |
| 8. | 22:00-23:00 | 44.9 | 65.0 | 44.4 | 47.8 | 69.5 | 45.0 | 48.7 | 62.4 | 47.5 |
| 9. | 23:00-00:00 | 43.8 | 53.2 | 43.2 | 48.8 | 70.3 | 44.5 | 47.5 | 60.3 | 46.7 |
| 10. | 00:00-01:00 | 43.7 | 64.5 | 43.0 | 56.4 | 74.4 | 44.4 | 47.5 | 51.9 | 46.4 |
| 11. | 01:00-02:00 | 43.8 | 49.6 | 43.3 | 58.3 | 81.3 | 48.8 | 43.4 | 58.0 | 41.4 |
| 12. | 02:00-03:00 | 54.5 | 73.8 | 43.3 | 55.0 | 71.6 | 44.3 | 45.8 | 59.9 | 42.2 |
| 13. | 03:00-04:00 | 48.0 | 71.9 | 43.4 | 53.6 | 72.9 | 45.5 | 47.3 | 66.5 | 41.3 |
| 14. | 04:00-05:00 | 49.5 | 69.6 | 43.3 | 53.3 | 79.1 | 44.3 | 48.1 | 74.2 | 41.3 |
| 15. | 05:00-06:00 | 53.6 | 76.8 | 43.2 | 48.6 | 67.4 | 44.1 | 43.5 | 65.9 | 39.8 |
| 16. | 06:00-07:00 | 56.1 | 82.8 | 45.5 | 51.2 | 71.2 | 44.9 | 46.6 | 67.0 | 40.4 |
| 17. | 07:00-08:00 | 57.5 | 74.4 | 45.5 | 49.0 | 67.4 | 44.1 | 49.6 | 75.2 | 41.0 |
| 18. | 08:00-09:00 | 57.1 | 75.1 | 44.7 | 48.4 | 76.4 | 42.8 | 52.3 | 82.4 | 47.2 |
| 19. | 09:00-10:00 | 57.0 | 72.3 | 44.2 | 50.0 | 75.0 | 43.8 | 51.9 | 61.6 | 47.2 |
| 20. | 10:00-11:00 | 55.2 | 75.2 | 44.1 | 50.7 | 68.3 | 49.0 | 50.1 | 66.9 | 43.2 |
| 21. | 11:00-12:00 | 52.7 | 73.5 | 44.4 | 51.7 | 66.3 | 48.9 | 53.2 | 62.8 | 49.1 |
| 22. | 12:00-13:00 | 50.4 | 77.0 | 44.6 | 58.1 | 71.1 | 51.1 | 47.5 | 64.8 | 42.3 |
| 23. | 13:00-14:00 | 49.4 | 69.4 | 46.2 | 58.4 | 78.9 | 51.8 | 50.5 | 63.8 | 50.2 |
| 24. | 14:00-15:00 | 51.1 | 73.8 | 49.5 | 51.9 | 75.8 | 44.5 | 51.9 | 76.5 | 50.7 |
| Leq 24 hr | | 53.1 | - | - | 52.9 | - | - | 49.4 | - | - |
| Lmax | | - | 82.8 | - | - | 88.4 | - | - | 82.4 | - |
| Standard ⁽¹⁾⁽²⁾ | | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| Ldn | | 58.1 | - | - | 60.1 | - | - | 54.0 | - | - |

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

⁽²⁾ 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
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/1-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(1/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 13.00-14.00 | 47.9 | 50.6 | 47.9 | 41.1 | 6.8 |
| 2. | 14.00-15.00 | 48.7 | 48.2 | 39.1 | 41.4 | -2.3 |
| 3. | 15.00-16.00 | 49.1 | 46.8 | 45.2 | 41.1 | 4.1 |
| 4. | 16.00-17.00 | 48.0 | 50.5 | 48.0 | 42.6 | 5.4 |
| 5. | 17.00-18.00 | 48.0 | 52.3 | 48.0 | 43.7 | 4.3 |
| 6. | 18.00-19.00 | 48.8 | 48.9 | 48.8 | 39.2 | 9.6 |
| 7. | 19.00-20.00 | 44.7 | 56.7 | 44.7 | 38.9 | 5.8 |
| 8. | 20.00-21.00 | 47.0 | 53.6 | 47.0 | 48.8 | -1.8 |
| 9. | 21.00-22.00 | 46.5 | 48.2 | 46.5 | 44.1 | 2.4 |
| 10. | 22.00-22.05 | 43.8 | 47.3 | 43.8 | 41.6 | 2.2 |
| | 22.05-22.10 | 41.8 | 44.5 | 41.8 | 40.7 | 1.1 |
| | 22.10-22.15 | 46.1 | 44.1 | 44.8 | 41.0 | 3.8 |
| | 22.15-22.20 | 47.8 | 47.6 | 37.3 | 41.6 | -4.3 |
| | 22.20-22.25 | 44.3 | 42.7 | 42.2 | 41.5 | 0.7 |
| | 22.25-22.30 | 45.4 | 43.9 | 43.1 | 42.5 | 0.6 |
| | 22.30-22.35 | 47.6 | 43.5 | 48.5 | 41.1 | 7.4 |
| | 22.35-22.40 | 47.6 | 43.7 | 48.3 | 41.0 | 7.3 |
| | 22.40-22.45 | 47.5 | 42.7 | 48.8 | 40.8 | 8.0 |
| | 22.45-22.50 | 42.8 | 44.1 | 42.8 | 42.2 | 0.6 |
| | 22.50-22.55 | 52.7 | 44.6 | 55.0 | 41.5 | 13.5 |
| | 22.55-23.00 | 46.8 | 45.7 | 43.3 | 42.7 | 0.6 |
| 11. | 23.00-23.05 | 43.9 | 45.6 | 43.9 | 41.8 | 2.1 |
| | 23.05-23.10 | 41.3 | 44.4 | 41.3 | 41.3 | 0.0 |
| | 23.10-23.15 | 42.0 | 52.4 | 42.0 | 40.7 | 1.3 |
| | 23.15-23.20 | 44.0 | 56.8 | 44.0 | 42.3 | 1.7 |
| | 23.20-23.25 | 43.4 | 43.6 | 43.4 | 40.6 | 2.8 |
| | 23.25-23.30 | 44.3 | 44.6 | 44.3 | 42.5 | 1.8 |
| | 23.30-23.35 | 42.3 | 45.8 | 42.3 | 42.8 | -0.5 |
| | 23.35-23.40 | 43.8 | 45.9 | 43.8 | 41.5 | 2.3 |
| | 23.40-23.45 | 43.4 | 44.0 | 43.4 | 40.8 | 2.6 |
| | 23.45-23.50 | 43.8 | 49.9 | 43.8 | 40.8 | 3.0 |
| | 23.50-23.55 | 43.3 | 46.6 | 43.3 | 41.3 | 2.0 |
| | 23.55-00.00 | 45.5 | 54.2 | 45.5 | 41.8 | 3.7 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(1/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|---------------------------------|------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีกรรบกวน (Leq) | ระดับเสียงขณะมีกรรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 12. | 00.00-00.05 | 43.7 | 43.5 | 33.2 | 41.8 | -8.6 |
| | 00.05-00.10 | 45.1 | 43.5 | 43.0 | 41.1 | 1.9 |
| | 00.10-00.15 | 43.1 | 44.4 | 43.1 | 41.5 | 1.6 |
| | 00.15-00.20 | 46.6 | 43.1 | 47.0 | 41.8 | 5.2 |
| | 00.20-00.25 | 44.8 | 42.0 | 44.6 | 41.0 | 3.6 |
| | 00.25-00.30 | 44.9 | 41.6 | 45.2 | 40.4 | 4.8 |
| | 00.30-00.35 | 47.9 | 41.9 | 49.6 | 40.7 | 8.9 |
| | 00.35-00.40 | 47.7 | 43.8 | 48.4 | 41.4 | 7.0 |
| | 00.40-00.45 | 44.4 | 43.8 | 38.5 | 41.1 | -2.6 |
| | 00.45-00.50 | 44.6 | 44.6 | 44.6 | 41.2 | 3.4 |
| 13. | 00.50-00.55 | 47.8 | 43.3 | 48.9 | 40.5 | 8.4 |
| | 00.55-01.00 | 45.7 | 43.8 | 44.2 | 41.1 | 3.1 |
| | 01.00-01.05 | 41.0 | 45.2 | 41.0 | 40.9 | 0.1 |
| | 01.05-01.10 | 42.6 | 44.9 | 42.6 | 42.1 | 0.5 |
| | 01.10-01.15 | 44.3 | 44.2 | 30.9 | 42.9 | -12.0 |
| | 01.15-01.20 | 48.6 | 45.3 | 48.9 | 43.2 | 5.7 |
| | 01.20-01.25 | 46.0 | 44.3 | 44.1 | 42.5 | 1.6 |
| | 01.25-01.30 | 41.5 | 46.0 | 41.5 | 43.2 | -1.7 |
| | 01.30-01.35 | 41.1 | 44.3 | 41.1 | 41.7 | -0.6 |
| | 01.35-01.40 | 46.8 | 43.6 | 47.0 | 42.1 | 4.9 |
| 14. | 01.40-01.45 | 53.4 | 44.9 | 55.7 | 42.4 | 13.3 |
| | 01.45-01.50 | 54.2 | 44.1 | 56.8 | 42.0 | 14.8 |
| | 01.50-01.55 | 54.5 | 43.1 | 57.2 | 40.8 | 16.4 |
| | 01.55-02.00 | 54.5 | 42.2 | 57.2 | 38.8 | 18.4 |
| | 02.00-02.05 | 48.6 | 40.6 | 50.9 | 39.2 | 11.7 |
| | 02.05-02.10 | 47.9 | 41.6 | 49.7 | 40.4 | 9.3 |
| | 02.10-02.15 | 44.5 | 41.8 | 44.2 | 40.3 | 3.9 |
| | 02.15-02.20 | 46.0 | 40.9 | 47.4 | 39.7 | 7.7 |
| | 02.20-02.25 | 45.8 | 40.4 | 47.3 | 39.4 | 7.9 |
| | 02.25-02.30 | 44.0 | 41.6 | 43.3 | 39.7 | 3.6 |
| 15. | 02.30-02.35 | 48.7 | 41.4 | 50.8 | 40.2 | 10.6 |
| | 02.35-02.40 | 47.7 | 40.7 | 49.7 | 39.6 | 10.1 |
| | 02.40-02.45 | 50.9 | 40.8 | 53.5 | 39.8 | 13.7 |
| | 02.45-02.50 | 45.3 | 41.3 | 46.1 | 40.3 | 5.8 |
| | 02.50-02.55 | 46.6 | 40.6 | 48.3 | 39.8 | 8.5 |
| | 02.55-03.00 | 49.0 | 40.9 | 51.3 | 40.0 | 11.3 |
| | 03.00-03.05 | 49.1 | 40.6 | 51.4 | 39.4 | 12.0 |
| | 03.05-03.10 | 49.4 | 40.9 | 51.7 | 39.9 | 11.8 |
| | 03.10-03.15 | 50.3 | 40.0 | 52.9 | 38.6 | 14.3 |
| | 03.15-03.20 | 48.8 | 41.8 | 50.8 | 39.5 | 11.3 |
| | 03.20-03.25 | 45.4 | 45.4 | 45.4 | 39.7 | 5.7 |
| | 03.25-03.30 | 46.6 | 42.1 | 47.7 | 40.2 | 7.5 |
| | 03.30-03.35 | 42.8 | 43.2 | 42.8 | 40.1 | 2.7 |
| | 03.35-03.40 | 43.5 | 44.1 | 43.5 | 42.2 | 1.3 |
| | 03.40-03.45 | 41.8 | 44.1 | 41.8 | 41.9 | -0.1 |
| | 03.45-03.50 | 44.7 | 44.3 | 37.1 | 42.2 | -5.1 |
| | 03.50-03.55 | 48.7 | 44.2 | 49.8 | 42.2 | 7.6 |
| | 03.55-04.00 | 49.3 | 43.7 | 50.9 | 41.2 | 9.7 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(1/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 16. | 04.00-04.05 | 49.2 | 41.7 | 51.3 | 40.0 | 11.3 |
| | 04.05-04.10 | 48.6 | 41.7 | 50.6 | 39.6 | 11.0 |
| | 04.10-04.15 | 47.6 | 44.9 | 47.3 | 41.7 | 5.6 |
| | 04.15-04.20 | 46.3 | 43.8 | 45.7 | 41.3 | 4.4 |
| | 04.20-04.25 | 53.2 | 40.6 | 56.0 | 39.6 | 16.4 |
| | 04.25-04.30 | 47.9 | 41.5 | 49.8 | 39.9 | 9.9 |
| | 04.30-04.35 | 46.2 | 48.5 | 46.2 | 39.7 | 6.5 |
| | 04.35-04.40 | 49.0 | 43.9 | 50.4 | 40.2 | 10.2 |
| | 04.40-04.45 | 48.2 | 41.3 | 50.2 | 39.8 | 10.4 |
| | 04.45-04.50 | 46.9 | 46.6 | 38.1 | 41.0 | -2.9 |
| | 04.50-04.55 | 47.9 | 44.5 | 48.2 | 40.7 | 7.5 |
| | 04.55-05.00 | 48.1 | 45.0 | 48.2 | 40.1 | 8.1 |
| 17. | 05.00-05.05 | 43.4 | 48.0 | 43.4 | 41.3 | 2.1 |
| | 05.05-05.10 | 42.8 | 47.9 | 42.8 | 41.5 | 1.3 |
| | 05.10-05.15 | 48.2 | 49.2 | 48.2 | 42.2 | 6.0 |
| | 05.15-05.20 | 44.6 | 47.6 | 44.6 | 42.6 | 2.0 |
| | 05.20-05.25 | 44.2 | 48.0 | 44.2 | 42.6 | 1.6 |
| | 05.25-05.30 | 48.8 | 52.4 | 48.8 | 44.4 | 4.4 |
| | 05.30-05.35 | 47.4 | 50.6 | 47.4 | 44.9 | 2.5 |
| | 05.35-05.40 | 53.7 | 55.8 | 53.7 | 45.8 | 7.9 |
| | 05.40-05.45 | 46.7 | 54.9 | 46.7 | 46.8 | -0.1 |
| | 05.45-05.50 | 48.6 | 56.3 | 48.6 | 46.8 | 1.8 |
| | 05.50-05.55 | 49.7 | 51.3 | 49.7 | 45.7 | 4.0 |
| | 05.55-06.00 | 46.3 | 51.0 | 46.3 | 45.2 | 1.1 |
| 18. | 06.00-07.00 | 47.5 | 52.9 | 47.5 | 42.5 | 5.0 |
| 19. | 07.00-08.00 | 46.2 | 51.5 | 46.2 | 41.9 | 4.3 |
| 20. | 08.00-09.00 | 50.7 | 52.8 | 50.7 | 42.3 | 8.4 |
| 21. | 09.00-10.00 | 48.9 | 52.0 | 48.9 | 41.9 | 7.0 |
| 22. | 10.00-11.00 | 48.6 | 50.4 | 48.6 | 42.6 | 6.0 |
| 23. | 11.00-12.00 | 51.6 | 50.4 | 45.4 | 42.6 | 2.8 |
| 24. | 12.00-13.00 | 49.8 | 52.8 | 49.8 | 44.4 | 5.4 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/2-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(2/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|---|-----------------------------|---|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิด เสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะ ไม่มีการรบกวน (Leq) | ระดับเสียงขณะ มีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 13.00-14.00 | 51.6 | 50.6 | 44.7 | 41.1 | 3.6 |
| 2. | 14.00-15.00 | 50.1 | 48.2 | 45.6 | 41.4 | 4.2 |
| 3. | 15.00-16.00 | 52.2 | 46.8 | 50.7 | 41.1 | 9.6 |
| 4. | 16.00-17.00 | 47.2 | 50.5 | 47.2 | 42.6 | 4.6 |
| 5. | 17.00-18.00 | 48.7 | 52.3 | 48.7 | 43.7 | 5.0 |
| 6. | 18.00-19.00 | 48.4 | 48.9 | 48.4 | 39.2 | 9.2 |
| 7. | 19.00-20.00 | 50.1 | 56.7 | 50.1 | 38.9 | 11.2 |
| 8. | 20.00-21.00 | 50.8 | 53.6 | 50.8 | 48.8 | 2.0 |
| 9. | 21.00-22.00 | 47.4 | 48.2 | 47.4 | 44.1 | 3.3 |
| 10. | 22.00-22.05 | 42.9 | 47.3 | 42.9 | 41.6 | 1.3 |
| | 22.05-22.10 | 42.3 | 44.5 | 42.3 | 40.7 | 1.6 |
| | 22.10-22.15 | 41.1 | 44.1 | 41.1 | 41.0 | 0.1 |
| | 22.15-22.20 | 46.8 | 47.6 | 46.8 | 41.6 | 5.2 |
| | 22.20-22.25 | 49.5 | 42.7 | 51.5 | 41.5 | 10.0 |
| | 22.25-22.30 | 49.3 | 43.9 | 50.8 | 42.5 | 8.3 |
| | 22.30-22.35 | 45.1 | 43.5 | 43.0 | 41.1 | 1.9 |
| | 22.35-22.40 | 48.2 | 43.7 | 49.3 | 41.0 | 8.3 |
| | 22.40-22.45 | 45.9 | 42.7 | 46.1 | 40.8 | 5.3 |
| | 22.45-22.50 | 49.5 | 44.1 | 51.0 | 42.2 | 8.8 |
| | 22.50-22.55 | 55.6 | 44.6 | 58.2 | 41.5 | 16.7 |
| | 22.55-23.00 | 47.4 | 45.7 | 45.5 | 42.7 | 2.8 |
| 11. | 23.00-23.05 | 41.9 | 45.6 | 41.9 | 41.8 | 0.1 |
| | 23.05-23.10 | 43.4 | 44.4 | 43.4 | 41.3 | 2.1 |
| | 23.10-23.15 | 44.8 | 52.4 | 44.8 | 40.7 | 4.1 |
| | 23.15-23.20 | 48.6 | 56.8 | 48.6 | 42.3 | 6.3 |
| | 23.20-23.25 | 50.7 | 43.6 | 52.8 | 40.6 | 12.2 |
| | 23.25-23.30 | 43.0 | 44.6 | 43.0 | 42.5 | 0.5 |
| | 23.30-23.35 | 47.4 | 45.8 | 45.3 | 42.8 | 2.5 |
| | 23.35-23.40 | 46.6 | 45.9 | 41.3 | 41.5 | -0.2 |
| | 23.40-23.45 | 44.6 | 44.0 | 38.7 | 40.8 | -2.1 |
| | 23.45-23.50 | 49.9 | 49.9 | 49.9 | 40.8 | 9.1 |
| | 23.50-23.55 | 44.6 | 46.6 | 44.6 | 41.3 | 3.3 |
| | 23.55-00.00 | 46.5 | 54.2 | 46.5 | 41.8 | 4.7 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(2/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 12. | 00.00-00.05 | 47.3 | 43.5 | 48.0 | 41.8 | 6.2 |
| | 00.05-00.10 | 46.3 | 43.5 | 46.1 | 41.1 | 5.0 |
| | 00.10-00.15 | 48.8 | 44.4 | 49.8 | 41.5 | 8.3 |
| | 00.15-00.20 | 46.4 | 43.1 | 46.7 | 41.8 | 4.9 |
| | 00.20-00.25 | 49.9 | 42.0 | 52.1 | 41.0 | 11.1 |
| | 00.25-00.30 | 46.0 | 41.6 | 47.0 | 40.4 | 6.6 |
| | 00.30-00.35 | 49.5 | 41.9 | 51.7 | 40.7 | 11.0 |
| | 00.35-00.40 | 51.8 | 43.8 | 54.1 | 41.4 | 12.7 |
| | 00.40-00.45 | 44.3 | 43.8 | 37.7 | 41.1 | -3.4 |
| | 00.45-00.50 | 55.5 | 44.6 | 58.1 | 41.2 | 16.9 |
| 13. | 00.50-00.55 | 58.7 | 43.3 | 61.6 | 40.5 | 21.1 |
| | 00.55-01.00 | 55.7 | 43.8 | 58.4 | 41.1 | 17.3 |
| | 01.00-01.05 | 45.3 | 45.2 | 31.9 | 40.9 | -9.0 |
| | 01.05-01.10 | 41.1 | 44.9 | 41.1 | 42.1 | -1.0 |
| | 01.10-01.15 | 50.7 | 44.2 | 52.6 | 42.9 | 9.7 |
| | 01.15-01.20 | 48.0 | 45.3 | 47.7 | 43.2 | 4.5 |
| | 01.20-01.25 | 51.5 | 44.3 | 53.6 | 42.5 | 11.1 |
| | 01.25-01.30 | 47.5 | 46.0 | 45.2 | 43.2 | 2.0 |
| | 01.30-01.35 | 51.2 | 44.3 | 53.2 | 41.7 | 11.5 |
| | 01.35-01.40 | 49.3 | 43.6 | 50.9 | 42.1 | 8.8 |
| 14. | 01.40-01.45 | 52.9 | 44.9 | 55.2 | 42.4 | 12.8 |
| | 01.45-01.50 | 46.9 | 44.1 | 46.7 | 42.0 | 4.7 |
| | 01.50-01.55 | 41.3 | 43.1 | 41.3 | 40.8 | 0.5 |
| | 01.55-02.00 | 46.7 | 42.2 | 47.8 | 38.8 | 9.0 |
| | 02.00-02.05 | 56.3 | 40.6 | 59.2 | 39.2 | 20.0 |
| | 02.05-02.10 | 46.2 | 41.6 | 47.4 | 40.4 | 7.0 |
| | 02.10-02.15 | 53.5 | 41.8 | 56.2 | 40.3 | 15.9 |
| | 02.15-02.20 | 44.8 | 40.9 | 45.5 | 39.7 | 5.8 |
| | 02.20-02.25 | 50.8 | 40.4 | 53.4 | 39.4 | 14.0 |
| | 02.25-02.30 | 49.9 | 41.6 | 52.2 | 39.7 | 12.5 |
| 15. | 02.30-02.35 | 43.6 | 41.4 | 42.6 | 40.2 | 2.4 |
| | 02.35-02.40 | 44.1 | 40.7 | 44.4 | 39.6 | 4.8 |
| | 02.40-02.45 | 44.6 | 40.8 | 45.3 | 39.8 | 5.5 |
| | 02.45-02.50 | 40.7 | 41.3 | 40.7 | 40.3 | 0.4 |
| | 02.50-02.55 | 46.4 | 40.6 | 48.1 | 39.8 | 8.3 |
| | 02.55-03.00 | 44.9 | 40.9 | 45.7 | 40.0 | 5.7 |
| | 03.00-03.05 | 42.0 | 40.6 | 39.4 | 39.4 | 0.0 |
| | 03.05-03.10 | 42.6 | 40.9 | 40.7 | 39.9 | 0.8 |
| | 03.10-03.15 | 59.9 | 40.0 | 62.9 | 38.6 | 24.3 |
| | 03.15-03.20 | 56.7 | 41.8 | 59.6 | 39.5 | 20.1 |
| | 03.20-03.25 | 42.4 | 45.4 | 42.4 | 39.7 | 2.7 |
| | 03.25-03.30 | 55.8 | 42.1 | 58.6 | 40.2 | 18.4 |
| | 03.30-03.35 | 55.4 | 43.2 | 58.1 | 40.1 | 18.0 |
| | 03.35-03.40 | 57.3 | 44.1 | 60.1 | 42.2 | 17.9 |
| | 03.40-03.45 | 41.9 | 44.1 | 41.9 | 41.9 | 0.0 |
| | 03.45-03.50 | 41.6 | 44.3 | 41.6 | 42.2 | -0.6 |
| | 03.50-03.55 | 42.4 | 44.2 | 42.4 | 42.2 | 0.2 |
| | 03.55-04.00 | 42.5 | 43.7 | 42.5 | 41.2 | 1.3 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(2/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 16. | 04.00-04.05 | 41.6 | 41.7 | 41.6 | 40.0 | 1.6 |
| | 04.05-04.10 | 43.0 | 41.7 | 40.1 | 39.6 | 0.5 |
| | 04.10-04.15 | 42.7 | 44.9 | 42.7 | 41.7 | 1.0 |
| | 04.15-04.20 | 45.4 | 43.8 | 43.3 | 41.3 | 2.0 |
| | 04.20-04.25 | 45.8 | 40.6 | 47.2 | 39.6 | 7.6 |
| | 04.25-04.30 | 43.6 | 41.5 | 42.4 | 39.9 | 2.5 |
| | 04.30-04.35 | 51.7 | 48.5 | 51.9 | 39.7 | 12.2 |
| | 04.35-04.40 | 44.0 | 43.9 | 30.6 | 40.2 | -9.6 |
| | 04.40-04.45 | 42.3 | 41.3 | 38.4 | 39.8 | -1.4 |
| | 04.45-04.50 | 44.4 | 46.6 | 44.4 | 41.0 | 3.4 |
| | 04.50-04.55 | 56.0 | 44.5 | 58.7 | 40.7 | 18.0 |
| | 04.55-05.00 | 56.5 | 45.0 | 59.2 | 40.1 | 19.1 |
| 17. | 05.00-05.05 | 53.4 | 48.0 | 54.9 | 41.3 | 13.6 |
| | 05.05-05.10 | 51.2 | 47.9 | 51.5 | 41.5 | 10.0 |
| | 05.10-05.15 | 59.9 | 49.2 | 62.5 | 42.2 | 20.3 |
| | 05.15-05.20 | 46.9 | 47.6 | 46.9 | 42.6 | 4.3 |
| | 05.20-05.25 | 53.5 | 48.0 | 55.1 | 42.6 | 12.5 |
| | 05.25-05.30 | 54.2 | 52.4 | 52.5 | 44.4 | 8.1 |
| | 05.30-05.35 | 54.1 | 50.6 | 54.5 | 44.9 | 9.6 |
| | 05.35-05.40 | 53.9 | 55.8 | 53.9 | 45.8 | 8.1 |
| | 05.40-05.45 | 53.8 | 54.9 | 53.8 | 46.8 | 7.0 |
| | 05.45-05.50 | 53.7 | 56.3 | 53.7 | 46.8 | 6.9 |
| | 05.50-05.55 | 53.6 | 51.3 | 52.7 | 45.7 | 7.0 |
| | 05.55-06.00 | 53.5 | 51.0 | 52.9 | 45.2 | 7.7 |
| 18. | 06.00-07.00 | 53.2 | 52.9 | 41.4 | 42.5 | -1.1 |
| 19. | 07.00-08.00 | 53.1 | 51.5 | 48.0 | 41.9 | 6.1 |
| 20. | 08.00-09.00 | 52.3 | 52.8 | 52.3 | 42.3 | 10.0 |
| 21. | 09.00-10.00 | 52.7 | 52.0 | 44.4 | 41.9 | 2.5 |
| 22. | 10.00-11.00 | 51.5 | 50.4 | 45.0 | 42.6 | 2.4 |
| 23. | 11.00-12.00 | 51.2 | 50.4 | 43.5 | 42.6 | 0.9 |
| 24. | 12.00-13.00 | 51.4 | 52.8 | 51.4 | 44.4 | 7.0 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/3-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(3/1-3)

| Item | Time | Result (dB(A)) | | | | |
|-----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 13.00-14.00 | 52.9 | 50.6 | 49.0 | 41.1 | 7.9 |
| 2. | 14.00-15.00 | 50.9 | 48.2 | 47.6 | 41.4 | 6.2 |
| 3. | 15.00-16.00 | 53.8 | 46.8 | 52.8 | 41.1 | 11.7 |
| 4. | 16.00-17.00 | 55.5 | 50.5 | 53.8 | 42.6 | 11.2 |
| 5. | 17.00-18.00 | 54.5 | 52.3 | 50.5 | 43.7 | 6.8 |
| 6. | 18.00-19.00 | 52.3 | 48.9 | 49.6 | 39.2 | 10.4 |
| 7. | 19.00-20.00 | 53.2 | 56.7 | 53.2 | 38.9 | 14.3 |
| 8. | 20.00-21.00 | 53.8 | 53.6 | 40.3 | 48.8 | -8.5 |
| 9. | 21.00-22.00 | 49.5 | 48.2 | 43.6 | 44.1 | -0.5 |
| 10. | 22.00-22.05 | 50.2 | 47.3 | 50.1 | 41.6 | 8.5 |
| | 22.05-22.10 | 50.7 | 44.5 | 52.5 | 40.7 | 11.8 |
| | 22.10-22.15 | 50.5 | 44.1 | 52.4 | 41.0 | 11.4 |
| | 22.15-22.20 | 50.5 | 47.6 | 50.4 | 41.6 | 8.8 |
| | 22.20-22.25 | 50.5 | 42.7 | 52.7 | 41.5 | 11.2 |
| | 22.25-22.30 | 53.0 | 43.9 | 55.4 | 42.5 | 12.9 |
| | 22.30-22.35 | 52.1 | 43.5 | 54.5 | 41.1 | 13.4 |
| | 22.35-22.40 | 50.2 | 43.7 | 52.1 | 41.0 | 11.1 |
| | 22.40-22.45 | 50.3 | 42.7 | 52.5 | 40.8 | 11.7 |
| | 22.45-22.50 | 50.5 | 44.1 | 52.4 | 42.2 | 10.2 |
| | 22.50-22.55 | 50.6 | 44.6 | 52.3 | 41.5 | 10.8 |
| | 22.55-23.00 | 50.7 | 45.7 | 52.0 | 42.7 | 9.3 |
| | 23.00-23.05 | 50.6 | 45.6 | 51.9 | 41.8 | 10.1 |
| | 23.05-23.10 | 50.6 | 44.4 | 52.4 | 41.3 | 11.1 |
| | 23.10-23.15 | 48.0 | 52.4 | 48.0 | 40.7 | 7.3 |
| | 23.15-23.20 | 48.0 | 56.8 | 48.0 | 42.3 | 5.7 |
| | 23.20-23.25 | 48.0 | 43.6 | 49.0 | 40.6 | 8.4 |
| | 23.25-23.30 | 48.0 | 44.6 | 48.3 | 42.5 | 5.8 |
| | 23.30-23.35 | 48.0 | 45.8 | 47.0 | 42.8 | 4.2 |
| | 23.35-23.40 | 48.3 | 45.9 | 47.6 | 41.5 | 6.1 |
| 11. | 23.40-23.45 | 48.5 | 44.0 | 49.6 | 40.8 | 8.8 |
| | 23.45-23.50 | 48.6 | 49.9 | 48.6 | 40.8 | 7.8 |
| | 23.50-23.55 | 48.7 | 46.6 | 47.5 | 41.3 | 6.2 |
| | 23.55-00.00 | 48.4 | 54.2 | 48.4 | 41.8 | 6.6 |
| Standard ^{(1)/(2)} | | | | | | 10 |



TEST REPORT

(3/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 12. | 00.00-00.05 | 48.3 | 43.5 | 49.6 | 41.8 | 7.8 |
| | 00.05-00.10 | 48.1 | 43.5 | 49.3 | 41.1 | 8.2 |
| | 00.10-00.15 | 48.7 | 44.4 | 49.7 | 41.5 | 8.2 |
| | 00.15-00.20 | 48.7 | 43.1 | 50.3 | 41.8 | 8.5 |
| | 00.20-00.25 | 48.0 | 42.0 | 49.7 | 41.0 | 8.7 |
| | 00.25-00.30 | 47.8 | 41.6 | 49.6 | 40.4 | 9.2 |
| | 00.30-00.35 | 47.9 | 41.9 | 49.6 | 40.7 | 8.9 |
| | 00.35-00.40 | 47.9 | 43.8 | 48.8 | 41.4 | 7.4 |
| | 00.40-00.45 | 46.4 | 43.8 | 45.9 | 41.1 | 4.8 |
| | 00.45-00.50 | 46.5 | 44.6 | 45.0 | 41.2 | 3.8 |
| | 00.50-00.55 | 47.1 | 43.3 | 47.8 | 40.5 | 7.3 |
| | 00.55-01.00 | 49.1 | 43.8 | 50.6 | 41.1 | 9.5 |
| 13. | 01.00-01.05 | 48.3 | 45.2 | 48.4 | 40.9 | 7.5 |
| | 01.05-01.10 | 47.6 | 44.9 | 47.3 | 42.1 | 5.2 |
| | 01.10-01.15 | 48.2 | 44.2 | 49.0 | 42.9 | 6.1 |
| | 01.15-01.20 | 48.0 | 45.3 | 47.7 | 43.2 | 4.5 |
| | 01.20-01.25 | 48.4 | 44.3 | 49.3 | 42.5 | 6.8 |
| | 01.25-01.30 | 49.0 | 46.0 | 49.0 | 43.2 | 5.8 |
| | 01.30-01.35 | 49.1 | 44.3 | 50.4 | 41.7 | 8.7 |
| | 01.35-01.40 | 49.2 | 43.6 | 50.8 | 42.1 | 8.7 |
| | 01.40-01.45 | 48.6 | 44.9 | 49.2 | 42.4 | 6.8 |
| | 01.45-01.50 | 48.1 | 44.1 | 48.9 | 42.0 | 6.9 |
| | 01.50-01.55 | 47.4 | 43.1 | 48.4 | 40.8 | 7.6 |
| | 01.55-02.00 | 50.3 | 42.2 | 52.6 | 38.8 | 13.8 |
| 14. | 02.00-02.05 | 42.6 | 40.6 | 41.3 | 39.2 | 2.1 |
| | 02.05-02.10 | 42.7 | 41.6 | 39.2 | 40.4 | -1.2 |
| | 02.10-02.15 | 43.0 | 41.8 | 39.8 | 40.3 | -0.5 |
| | 02.15-02.20 | 43.2 | 40.9 | 42.3 | 39.7 | 2.6 |
| | 02.20-02.25 | 43.3 | 40.4 | 43.2 | 39.4 | 3.8 |
| | 02.25-02.30 | 43.5 | 41.6 | 42.0 | 39.7 | 2.3 |
| | 02.30-02.35 | 45.1 | 41.4 | 45.7 | 40.2 | 5.5 |
| | 02.35-02.40 | 42.7 | 40.7 | 41.4 | 39.6 | 1.8 |
| | 02.40-02.45 | 43.1 | 40.8 | 42.2 | 39.8 | 2.4 |
| | 02.45-02.50 | 53.3 | 41.3 | 56.0 | 40.3 | 15.7 |
| | 02.50-02.55 | 42.4 | 40.6 | 40.7 | 39.8 | 0.9 |
| | 02.55-03.00 | 56.9 | 40.9 | 59.8 | 40.0 | 19.8 |
| 15. | 03.00-03.05 | 42.4 | 40.6 | 40.7 | 39.4 | 1.3 |
| | 03.05-03.10 | 46.7 | 40.9 | 48.4 | 39.9 | 8.5 |
| | 03.10-03.15 | 42.8 | 40.0 | 42.6 | 38.6 | 4.0 |
| | 03.15-03.20 | 42.7 | 41.8 | 38.4 | 39.5 | -1.1 |
| | 03.20-03.25 | 42.2 | 45.4 | 42.2 | 39.7 | 2.5 |
| | 03.25-03.30 | 42.4 | 42.1 | 33.6 | 40.2 | -6.6 |
| | 03.30-03.35 | 42.8 | 43.2 | 42.8 | 40.1 | 2.7 |
| | 03.35-03.40 | 42.6 | 44.1 | 42.6 | 42.2 | 0.4 |
| | 03.40-03.45 | 42.3 | 44.1 | 42.3 | 41.9 | 0.4 |
| | 03.45-03.50 | 42.6 | 44.3 | 42.6 | 42.2 | 0.4 |
| | 03.50-03.55 | 42.8 | 44.2 | 42.8 | 42.2 | 0.6 |
| | 03.55-04.00 | 44.6 | 43.7 | 40.3 | 41.2 | -0.9 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(3/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|---------------------------------|------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีกรรบกวน (Leq) | ระดับเสียงขณะมีกรรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 16. | 04.00-04.05 | 45.2 | 41.7 | 45.6 | 40.0 | 5.6 |
| | 04.05-04.10 | 44.4 | 41.7 | 44.1 | 39.6 | 4.5 |
| | 04.10-04.15 | 44.2 | 44.9 | 44.2 | 41.7 | 2.5 |
| | 04.15-04.20 | 44.2 | 43.8 | 36.6 | 41.3 | -4.7 |
| | 04.20-04.25 | 44.1 | 40.6 | 44.5 | 39.6 | 4.9 |
| | 04.25-04.30 | 44.1 | 41.5 | 43.6 | 39.9 | 3.7 |
| | 04.30-04.35 | 44.2 | 48.5 | 44.2 | 39.7 | 4.5 |
| | 04.35-04.40 | 44.5 | 43.9 | 38.6 | 40.2 | -1.6 |
| | 04.40-04.45 | 44.4 | 41.3 | 44.5 | 39.8 | 4.7 |
| | 04.45-04.50 | 44.3 | 46.6 | 44.3 | 41.0 | 3.3 |
| | 04.50-04.55 | 44.5 | 44.5 | 44.5 | 40.7 | 3.8 |
| | 04.55-05.00 | 44.7 | 45.0 | 44.7 | 40.1 | 4.6 |
| 17. | 05.00-05.05 | 45.6 | 48.0 | 45.6 | 41.3 | 4.3 |
| | 05.05-05.10 | 45.1 | 47.9 | 45.1 | 41.5 | 3.6 |
| | 05.10-05.15 | 44.8 | 49.2 | 44.8 | 42.2 | 2.6 |
| | 05.15-05.20 | 43.9 | 47.6 | 43.9 | 42.6 | 1.3 |
| | 05.20-05.25 | 44.5 | 48.0 | 44.5 | 42.6 | 1.9 |
| | 05.25-05.30 | 45.1 | 52.4 | 45.1 | 44.4 | 0.7 |
| | 05.30-05.35 | 58.5 | 50.6 | 60.7 | 44.9 | 15.8 |
| | 05.35-05.40 | 45.5 | 55.8 | 45.5 | 45.8 | -0.3 |
| | 05.40-05.45 | 44.7 | 54.9 | 44.7 | 46.8 | -2.1 |
| | 05.45-05.50 | 45.0 | 56.3 | 45.0 | 46.8 | -1.8 |
| | 05.50-05.55 | 44.8 | 51.3 | 44.8 | 45.7 | -0.9 |
| | 05.55-06.00 | 44.8 | 51.0 | 44.8 | 45.2 | -0.4 |
| 18. | 06.00-07.00 | 50.9 | 52.9 | 50.9 | 42.5 | 8.4 |
| 19. | 07.00-08.00 | 45.5 | 51.5 | 45.5 | 41.9 | 3.6 |
| 20. | 08.00-09.00 | 46.9 | 52.8 | 46.9 | 42.3 | 4.6 |
| 21. | 09.00-10.00 | 49.4 | 52.0 | 49.4 | 41.9 | 7.5 |
| 22. | 10.00-11.00 | 51.0 | 50.4 | 42.1 | 42.6 | -0.5 |
| 23. | 11.00-12.00 | 51.3 | 50.4 | 44.0 | 42.6 | 1.4 |
| 24. | 12.00-13.00 | 50.2 | 52.8 | 50.2 | 44.4 | 5.8 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีกรรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ
จังหวัดพิจิตร 66150
Job No. : S660183/June

Report No. : 1646/2023/4-42
Report Date : June 13, 2023
Sampling Date : April 19-26 & June 4-5, 2023
Type of Sample : เสียงรบกวน

(4/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 13.00-14.00 | 55.0 | 50.6 | 53.0 | 41.1 | 11.9 |
| 2. | 14.00-15.00 | 54.9 | 48.2 | 53.9 | 41.4 | 12.5 |
| 3. | 15.00-16.00 | 54.7 | 46.8 | 53.9 | 41.1 | 12.8 |
| 4. | 16.00-17.00 | 50.6 | 50.5 | 34.2 | 42.6 | -8.4 |
| 5. | 17.00-18.00 | 48.1 | 52.3 | 48.1 | 43.7 | 4.4 |
| 6. | 18.00-19.00 | 49.7 | 48.9 | 42.0 | 39.2 | 2.8 |
| 7. | 19.00-20.00 | 51.0 | 56.7 | 51.0 | 38.9 | 12.1 |
| 8. | 20.00-21.00 | 45.7 | 53.6 | 45.7 | 48.8 | -3.1 |
| 9. | 21.00-22.00 | 46.9 | 48.2 | 46.9 | 44.1 | 2.8 |
| 10. | 22.00-22.05 | 55.7 | 47.3 | 58.0 | 41.6 | 16.4 |
| | 22.05-22.10 | 55.8 | 44.5 | 58.5 | 40.7 | 17.8 |
| | 22.10-22.15 | 52.0 | 44.1 | 54.2 | 41.0 | 13.2 |
| | 22.15-22.20 | 53.8 | 47.6 | 55.6 | 41.6 | 14.0 |
| | 22.20-22.25 | 54.2 | 42.7 | 56.9 | 41.5 | 15.4 |
| | 22.25-22.30 | 49.0 | 43.9 | 50.4 | 42.5 | 7.9 |
| | 22.30-22.35 | 53.2 | 43.5 | 55.7 | 41.1 | 14.6 |
| | 22.35-22.40 | 53.7 | 43.7 | 56.2 | 41.0 | 15.2 |
| | 22.40-22.45 | 51.3 | 42.7 | 53.7 | 40.8 | 12.9 |
| | 22.45-22.50 | 51.1 | 44.1 | 53.1 | 42.2 | 10.9 |
| | 22.50-22.55 | 52.5 | 44.6 | 54.7 | 41.5 | 13.2 |
| | 22.55-23.00 | 51.4 | 45.7 | 53.0 | 42.7 | 10.3 |
| 11. | 23.00-23.05 | 50.7 | 45.6 | 52.1 | 41.8 | 10.3 |
| | 23.05-23.10 | 48.4 | 44.4 | 49.2 | 41.3 | 7.9 |
| | 23.10-23.15 | 48.1 | 52.4 | 48.1 | 40.7 | 7.4 |
| | 23.15-23.20 | 48.9 | 56.8 | 48.9 | 42.3 | 6.6 |
| | 23.20-23.25 | 47.0 | 43.6 | 47.3 | 40.6 | 6.7 |
| | 23.25-23.30 | 46.6 | 44.6 | 45.3 | 42.5 | 2.8 |
| | 23.30-23.35 | 47.1 | 45.8 | 44.2 | 42.8 | 1.4 |
| | 23.35-23.40 | 49.7 | 45.9 | 50.4 | 41.5 | 8.9 |
| | 23.40-23.45 | 52.2 | 44.0 | 54.5 | 40.8 | 13.7 |
| | 23.45-23.50 | 55.7 | 49.9 | 57.4 | 40.8 | 16.6 |
| | 23.50-23.55 | 55.6 | 46.6 | 58.0 | 41.3 | 16.7 |
| | 23.55-00.00 | 50.0 | 54.2 | 50.0 | 41.8 | 8.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(4/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 12. | 00.00-00.05 | 49.0 | 43.5 | 50.6 | 41.8 | 8.8 |
| | 00.05-00.10 | 53.0 | 43.5 | 55.5 | 41.1 | 14.4 |
| | 00.10-00.15 | 49.8 | 44.4 | 51.3 | 41.5 | 9.8 |
| | 00.15-00.20 | 49.5 | 43.1 | 51.4 | 41.8 | 9.6 |
| | 00.20-00.25 | 48.5 | 42.0 | 50.4 | 41.0 | 9.4 |
| | 00.25-00.30 | 49.3 | 41.6 | 51.5 | 40.4 | 11.1 |
| | 00.30-00.35 | 49.5 | 41.9 | 51.7 | 40.7 | 11.0 |
| | 00.35-00.40 | 48.9 | 43.8 | 50.3 | 41.4 | 8.9 |
| | 00.40-00.45 | 49.9 | 43.8 | 51.7 | 41.1 | 10.6 |
| | 00.45-00.50 | 49.4 | 44.6 | 50.7 | 41.2 | 9.5 |
| | 00.50-00.55 | 47.5 | 43.3 | 48.4 | 40.5 | 7.9 |
| 13. | 00.55-01.00 | 46.4 | 43.8 | 45.9 | 41.1 | 4.8 |
| | 01.00-01.05 | 46.3 | 45.2 | 42.8 | 40.9 | 1.9 |
| | 01.05-01.10 | 46.4 | 44.9 | 44.1 | 42.1 | 2.0 |
| | 01.10-01.15 | 45.8 | 44.2 | 43.7 | 42.9 | 0.8 |
| | 01.15-01.20 | 45.0 | 45.3 | 45.0 | 43.2 | 1.8 |
| | 01.20-01.25 | 45.2 | 44.3 | 40.9 | 42.5 | -1.6 |
| | 01.25-01.30 | 46.4 | 46.0 | 38.8 | 43.2 | -4.4 |
| | 01.30-01.35 | 45.8 | 44.3 | 43.5 | 41.7 | 1.8 |
| | 01.35-01.40 | 46.9 | 43.6 | 47.2 | 42.1 | 5.1 |
| | 01.40-01.45 | 47.7 | 44.9 | 47.5 | 42.4 | 5.1 |
| | 01.45-01.50 | 49.0 | 44.1 | 50.3 | 42.0 | 8.3 |
| 14. | 01.50-01.55 | 47.2 | 43.1 | 48.1 | 40.8 | 7.3 |
| | 01.55-02.00 | 46.5 | 42.2 | 47.5 | 38.8 | 8.7 |
| | 02.00-02.05 | 45.2 | 40.6 | 46.4 | 39.2 | 7.2 |
| | 02.05-02.10 | 44.0 | 41.6 | 43.3 | 40.4 | 2.9 |
| | 02.10-02.15 | 52.8 | 41.8 | 55.4 | 40.3 | 15.1 |
| | 02.15-02.20 | 45.4 | 40.9 | 46.5 | 39.7 | 6.8 |
| | 02.20-02.25 | 44.9 | 40.4 | 46.0 | 39.4 | 6.6 |
| | 02.25-02.30 | 44.4 | 41.6 | 44.2 | 39.7 | 4.5 |
| | 02.30-02.35 | 44.4 | 41.4 | 44.4 | 40.2 | 4.2 |
| | 02.35-02.40 | 44.3 | 40.7 | 44.8 | 39.6 | 5.2 |
| | 02.40-02.45 | 43.9 | 40.8 | 44.0 | 39.8 | 4.2 |
| 15. | 02.45-02.50 | 44.3 | 41.3 | 44.3 | 40.3 | 4.0 |
| | 02.50-02.55 | 57.1 | 40.6 | 60.0 | 39.8 | 20.2 |
| | 02.55-03.00 | 56.2 | 40.9 | 59.1 | 40.0 | 19.1 |
| | 03.00-03.05 | 48.1 | 40.6 | 50.2 | 39.4 | 10.8 |
| | 03.05-03.10 | 48.0 | 40.9 | 50.1 | 39.9 | 10.2 |
| | 03.10-03.15 | 48.3 | 40.0 | 50.6 | 38.6 | 12.0 |
| | 03.15-03.20 | 46.1 | 41.8 | 47.1 | 39.5 | 7.6 |
| | 03.20-03.25 | 47.5 | 45.4 | 46.3 | 39.7 | 6.6 |
| | 03.25-03.30 | 46.6 | 42.1 | 47.7 | 40.2 | 7.5 |
| | 03.30-03.35 | 47.7 | 43.2 | 48.8 | 40.1 | 8.7 |
| | 03.35-03.40 | 44.1 | 44.1 | 44.1 | 42.2 | 1.9 |
| | 03.40-03.45 | 45.2 | 44.1 | 41.7 | 41.9 | -0.2 |
| | 03.45-03.50 | 45.9 | 44.3 | 43.8 | 42.2 | 1.6 |
| | 03.50-03.55 | 48.4 | 44.2 | 49.3 | 42.2 | 7.1 |
| | 03.55-04.00 | 43.5 | 43.7 | 43.5 | 41.2 | 2.3 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(4/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|---------------------------------|------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีกรรบกวน (Leq) | ระดับเสียงขณะมีกรรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 16. | 04.00-04.05 | 44.3 | 41.7 | 43.8 | 40.0 | 3.8 |
| | 04.05-04.10 | 43.3 | 41.7 | 41.2 | 39.6 | 1.6 |
| | 04.10-04.15 | 47.0 | 44.9 | 45.8 | 41.7 | 4.1 |
| | 04.15-04.20 | 43.1 | 43.8 | 43.1 | 41.3 | 1.8 |
| | 04.20-04.25 | 42.7 | 40.6 | 41.5 | 39.6 | 1.9 |
| | 04.25-04.30 | 44.2 | 41.5 | 43.9 | 39.9 | 4.0 |
| | 04.30-04.35 | 52.3 | 48.5 | 53.0 | 39.7 | 13.3 |
| | 04.35-04.40 | 42.5 | 43.9 | 42.5 | 40.2 | 2.3 |
| | 04.40-04.45 | 42.6 | 41.3 | 39.7 | 39.8 | -0.1 |
| | 04.45-04.50 | 43.1 | 46.6 | 43.1 | 41.0 | 2.1 |
| | 04.50-04.55 | 45.0 | 44.5 | 38.4 | 40.7 | -2.3 |
| | 04.55-05.00 | 44.5 | 45.0 | 44.5 | 40.1 | 4.4 |
| 17. | 05.00-05.05 | 48.7 | 48.0 | 43.4 | 41.3 | 2.1 |
| | 05.05-05.10 | 48.0 | 47.9 | 34.6 | 41.5 | -6.9 |
| | 05.10-05.15 | 46.1 | 49.2 | 46.1 | 42.2 | 3.9 |
| | 05.15-05.20 | 49.6 | 47.6 | 48.3 | 42.6 | 5.7 |
| | 05.20-05.25 | 47.7 | 48.0 | 47.7 | 42.6 | 5.1 |
| | 05.25-05.30 | 48.2 | 52.4 | 48.2 | 44.4 | 3.8 |
| | 05.30-05.35 | 49.8 | 50.6 | 49.8 | 44.9 | 4.9 |
| | 05.35-05.40 | 50.4 | 55.8 | 50.4 | 45.8 | 4.6 |
| | 05.40-05.45 | 52.8 | 54.9 | 52.8 | 46.8 | 6.0 |
| | 05.45-05.50 | 58.4 | 56.3 | 57.2 | 46.8 | 10.4 |
| | 05.50-05.55 | 52.5 | 51.3 | 49.3 | 45.7 | 3.6 |
| | 05.55-06.00 | 51.9 | 51.0 | 47.6 | 45.2 | 2.4 |
| 18. | 06.00-07.00 | 54.9 | 52.9 | 50.6 | 42.5 | 8.1 |
| 19. | 07.00-08.00 | 54.0 | 51.5 | 50.4 | 41.9 | 8.5 |
| 20. | 08.00-09.00 | 50.9 | 52.8 | 50.9 | 42.3 | 8.6 |
| 21. | 09.00-10.00 | 52.4 | 52.0 | 41.8 | 41.9 | -0.1 |
| 22. | 10.00-11.00 | 51.2 | 50.4 | 43.5 | 42.6 | 0.9 |
| 23. | 11.00-12.00 | 51.8 | 50.4 | 46.2 | 42.6 | 3.6 |
| 24. | 12.00-13.00 | 50.0 | 52.8 | 50.0 | 44.4 | 5.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

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

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

Remark : ระดับเสียงขณะไม่มีกรรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/5-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(5/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 13.00-14.00 | 49.7 | 50.6 | 49.7 | 41.1 | 8.6 |
| 2. | 14.00-15.00 | 52.4 | 48.2 | 50.3 | 41.4 | 8.9 |
| 3. | 15.00-16.00 | 53.1 | 46.8 | 51.9 | 41.1 | 10.8 |
| 4. | 16.00-17.00 | 56.2 | 50.5 | 54.8 | 42.6 | 12.2 |
| 5. | 17.00-18.00 | 55.6 | 52.3 | 52.9 | 43.7 | 9.2 |
| 6. | 18.00-19.00 | 53.1 | 48.9 | 51.0 | 39.2 | 11.8 |
| 7. | 19.00-20.00 | 52.5 | 56.7 | 52.5 | 38.9 | 13.6 |
| 8. | 20.00-21.00 | 52.7 | 53.6 | 52.7 | 48.8 | 3.9 |
| 9. | 21.00-22.00 | 52.6 | 48.2 | 50.6 | 44.1 | 6.5 |
| 10. | 22.00-22.05 | 52.0 | 47.3 | 53.2 | 41.6 | 11.6 |
| | 22.05-22.10 | 51.9 | 44.5 | 54.0 | 40.7 | 13.3 |
| | 22.10-22.15 | 53.3 | 44.1 | 55.7 | 41.0 | 14.7 |
| | 22.15-22.20 | 54.1 | 47.6 | 56.0 | 41.6 | 14.4 |
| | 22.20-22.25 | 55.6 | 42.7 | 58.4 | 41.5 | 16.9 |
| | 22.25-22.30 | 53.7 | 43.9 | 56.2 | 42.5 | 13.7 |
| | 22.30-22.35 | 53.6 | 43.5 | 56.2 | 41.1 | 15.1 |
| | 22.35-22.40 | 53.5 | 43.7 | 56.0 | 41.0 | 15.0 |
| | 22.40-22.45 | 53.2 | 42.7 | 55.8 | 40.8 | 15.0 |
| | 22.45-22.50 | 52.7 | 44.1 | 55.1 | 42.2 | 12.9 |
| | 22.50-22.55 | 52.2 | 44.6 | 54.4 | 41.5 | 12.9 |
| | 22.55-23.00 | 51.7 | 45.7 | 53.4 | 42.7 | 10.7 |
| 11. | 23.00-23.05 | 52.0 | 45.6 | 53.9 | 41.8 | 12.1 |
| | 23.05-23.10 | 51.6 | 44.4 | 53.7 | 41.3 | 12.4 |
| | 23.10-23.15 | 51.6 | 52.4 | 51.6 | 40.7 | 10.9 |
| | 23.15-23.20 | 52.1 | 56.8 | 52.1 | 42.3 | 9.8 |
| | 23.20-23.25 | 51.9 | 43.6 | 54.2 | 40.6 | 13.6 |
| | 23.25-23.30 | 51.8 | 44.6 | 53.9 | 42.5 | 11.4 |
| | 23.30-23.35 | 52.5 | 45.8 | 54.5 | 42.8 | 11.7 |
| | 23.35-23.40 | 52.6 | 45.9 | 54.6 | 41.5 | 13.1 |
| | 23.40-23.45 | 51.7 | 44.0 | 53.9 | 40.8 | 13.1 |
| | 23.45-23.50 | 51.5 | 49.9 | 49.4 | 40.8 | 8.6 |
| | 23.50-23.55 | 51.5 | 46.6 | 52.8 | 41.3 | 11.5 |
| | 23.55-00.00 | 50.9 | 54.2 | 50.9 | 41.8 | 9.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(5/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 12. | 00.00-00.05 | 51.9 | 43.5 | 54.2 | 41.8 | 12.4 |
| | 00.05-00.10 | 52.5 | 43.5 | 54.9 | 41.1 | 13.8 |
| | 00.10-00.15 | 52.7 | 44.4 | 55.0 | 41.5 | 13.5 |
| | 00.15-00.20 | 51.4 | 43.1 | 53.7 | 41.8 | 11.9 |
| | 00.20-00.25 | 52.8 | 42.0 | 55.4 | 41.0 | 14.4 |
| | 00.25-00.30 | 54.3 | 41.6 | 57.1 | 40.4 | 16.7 |
| | 00.30-00.35 | 52.2 | 41.9 | 54.8 | 40.7 | 14.1 |
| | 00.35-00.40 | 51.8 | 43.8 | 54.1 | 41.4 | 12.7 |
| | 00.40-00.45 | 52.4 | 43.8 | 54.8 | 41.1 | 13.7 |
| | 00.45-00.50 | 51.6 | 44.6 | 53.6 | 41.2 | 12.4 |
| | 00.50-00.55 | 51.5 | 43.3 | 53.8 | 40.5 | 13.3 |
| | 00.55-01.00 | 51.9 | 43.8 | 54.2 | 41.1 | 13.1 |
| 13. | 01.00-01.05 | 58.5 | 45.2 | 61.3 | 40.9 | 20.4 |
| | 01.05-01.10 | 54.3 | 44.9 | 56.8 | 42.1 | 14.7 |
| | 01.10-01.15 | 52.7 | 44.2 | 55.0 | 42.9 | 12.1 |
| | 01.15-01.20 | 56.4 | 45.3 | 59.0 | 43.2 | 15.8 |
| | 01.20-01.25 | 52.4 | 44.3 | 54.7 | 42.5 | 12.2 |
| | 01.25-01.30 | 52.2 | 46.0 | 54.0 | 43.2 | 10.8 |
| | 01.30-01.35 | 52.8 | 44.3 | 55.1 | 41.7 | 13.4 |
| | 01.35-01.40 | 53.3 | 43.6 | 55.8 | 42.1 | 13.7 |
| | 01.40-01.45 | 53.2 | 44.9 | 55.5 | 42.4 | 13.1 |
| | 01.45-01.50 | 51.5 | 44.1 | 53.6 | 42.0 | 11.6 |
| | 01.50-01.55 | 49.3 | 43.1 | 51.1 | 40.8 | 10.3 |
| | 01.55-02.00 | 49.8 | 42.2 | 52.0 | 38.8 | 13.2 |
| 14. | 02.00-02.05 | 52.4 | 40.6 | 55.1 | 39.2 | 15.9 |
| | 02.05-02.10 | 50.6 | 41.6 | 53.0 | 40.4 | 12.6 |
| | 02.10-02.15 | 49.1 | 41.8 | 51.2 | 40.3 | 10.9 |
| | 02.15-02.20 | 49.0 | 40.9 | 51.3 | 39.7 | 11.6 |
| | 02.20-02.25 | 49.6 | 40.4 | 52.0 | 39.4 | 12.6 |
| | 02.25-02.30 | 49.9 | 41.6 | 52.2 | 39.7 | 12.5 |
| | 02.30-02.35 | 49.8 | 41.4 | 52.1 | 40.2 | 11.9 |
| | 02.35-02.40 | 49.8 | 40.7 | 52.2 | 39.6 | 12.6 |
| | 02.40-02.45 | 49.9 | 40.8 | 52.3 | 39.8 | 12.5 |
| | 02.45-02.50 | 50.1 | 41.3 | 52.5 | 40.3 | 12.2 |
| | 02.50-02.55 | 50.1 | 40.6 | 52.6 | 39.8 | 12.8 |
| | 02.55-03.00 | 49.6 | 40.9 | 52.0 | 40.0 | 12.0 |
| 15. | 03.00-03.05 | 49.6 | 40.6 | 52.0 | 39.4 | 12.6 |
| | 03.05-03.10 | 49.8 | 40.9 | 52.2 | 39.9 | 12.3 |
| | 03.10-03.15 | 50.0 | 40.0 | 52.5 | 38.6 | 13.9 |
| | 03.15-03.20 | 50.2 | 41.8 | 52.5 | 39.5 | 13.0 |
| | 03.20-03.25 | 50.9 | 45.4 | 52.5 | 39.7 | 12.8 |
| | 03.25-03.30 | 50.5 | 42.1 | 52.8 | 40.2 | 12.6 |
| | 03.30-03.35 | 51.5 | 43.2 | 53.8 | 40.1 | 13.7 |
| | 03.35-03.40 | 54.7 | 44.1 | 57.3 | 42.2 | 15.1 |
| | 03.40-03.45 | 50.4 | 44.1 | 52.2 | 41.9 | 10.3 |
| | 03.45-03.50 | 49.0 | 44.3 | 50.2 | 42.2 | 8.0 |
| | 03.50-03.55 | 49.2 | 44.2 | 50.5 | 42.2 | 8.3 |
| | 03.55-04.00 | 49.8 | 43.7 | 51.6 | 41.2 | 10.4 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(5/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 16. | 04.00-04.05 | 48.9 | 41.7 | 51.0 | 40.0 | 11.0 |
| | 04.05-04.10 | 50.6 | 41.7 | 53.0 | 39.6 | 13.4 |
| | 04.10-04.15 | 49.5 | 44.9 | 50.7 | 41.7 | 9.0 |
| | 04.15-04.20 | 51.6 | 43.8 | 53.8 | 41.3 | 12.5 |
| | 04.20-04.25 | 51.4 | 40.6 | 54.0 | 39.6 | 14.4 |
| | 04.25-04.30 | 53.1 | 41.5 | 55.8 | 39.9 | 15.9 |
| | 04.30-04.35 | 51.7 | 48.5 | 51.9 | 39.7 | 12.2 |
| | 04.35-04.40 | 51.9 | 43.9 | 54.2 | 40.2 | 14.0 |
| | 04.40-04.45 | 52.5 | 41.3 | 55.2 | 39.8 | 15.4 |
| | 04.45-04.50 | 51.0 | 46.6 | 52.0 | 41.0 | 11.0 |
| | 04.50-04.55 | 50.2 | 44.5 | 51.8 | 40.7 | 11.1 |
| 17. | 04.55-05.00 | 50.6 | 45.0 | 52.2 | 40.1 | 12.1 |
| | 05.00-05.05 | 53.1 | 48.0 | 54.5 | 41.3 | 13.2 |
| | 05.05-05.10 | 54.0 | 47.9 | 55.8 | 41.5 | 14.3 |
| | 05.10-05.15 | 53.9 | 49.2 | 55.1 | 42.2 | 12.9 |
| | 05.15-05.20 | 53.9 | 47.6 | 55.7 | 42.6 | 13.1 |
| | 05.20-05.25 | 54.2 | 48.0 | 56.0 | 42.6 | 13.4 |
| | 05.25-05.30 | 55.3 | 52.4 | 55.2 | 44.4 | 10.8 |
| | 05.30-05.35 | 55.8 | 50.6 | 57.2 | 44.9 | 12.3 |
| | 05.35-05.40 | 59.2 | 55.8 | 59.5 | 45.8 | 13.7 |
| | 05.40-05.45 | 55.6 | 54.9 | 50.3 | 46.8 | 3.5 |
| | 05.45-05.50 | 54.9 | 56.3 | 54.9 | 46.8 | 8.1 |
| 18. | 05.50-05.55 | 56.0 | 51.3 | 57.2 | 45.7 | 11.5 |
| | 05.55-06.00 | 53.9 | 51.0 | 53.8 | 45.2 | 8.6 |
| | 06.00-07.00 | 55.6 | 52.9 | 52.3 | 42.5 | 9.8 |
| | 07.00-08.00 | 55.2 | 51.5 | 52.8 | 41.9 | 10.9 |
| | 08.00-09.00 | 55.6 | 52.8 | 52.4 | 42.3 | 10.1 |
| | 09.00-10.00 | 56.8 | 52.0 | 55.1 | 41.9 | 13.2 |
| | 10.00-11.00 | 56.9 | 50.4 | 55.8 | 42.6 | 13.2 |
| | 11.00-12.00 | 56.7 | 50.4 | 55.5 | 42.6 | 12.9 |
| | 12.00-13.00 | 54.4 | 52.8 | 49.3 | 44.4 | 4.9 |
| | | | | | | |
| | | | | | | |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/6-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(6/1-3)

| Item | Time | Result (dB(A)) | | | | |
|-----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 13.00-14.00 | 51.1 | 50.6 | 41.5 | 41.1 | 0.4 |
| 2. | 14.00-15.00 | 48.6 | 48.2 | 38.0 | 41.4 | -3.4 |
| 3. | 15.00-16.00 | 48.1 | 46.8 | 42.2 | 41.1 | 1.1 |
| 4. | 16.00-17.00 | 47.1 | 50.5 | 47.1 | 42.6 | 4.5 |
| 5. | 17.00-18.00 | 49.9 | 52.3 | 49.9 | 43.7 | 6.2 |
| 6. | 18.00-19.00 | 54.1 | 48.9 | 52.5 | 39.2 | 13.3 |
| 7. | 19.00-20.00 | 55.8 | 56.7 | 55.8 | 38.9 | 16.9 |
| 8. | 20.00-21.00 | 56.8 | 53.6 | 54.0 | 48.8 | 5.2 |
| 9. | 21.00-22.00 | 58.7 | 48.2 | 58.3 | 44.1 | 14.2 |
| 10. | 22.00-22.05 | 57.9 | 47.3 | 60.5 | 41.6 | 18.9 |
| | 22.05-22.10 | 58.0 | 44.5 | 60.8 | 40.7 | 20.1 |
| | 22.10-22.15 | 58.7 | 44.1 | 61.5 | 41.0 | 20.5 |
| | 22.15-22.20 | 56.0 | 47.6 | 58.3 | 41.6 | 16.7 |
| | 22.20-22.25 | 55.8 | 42.7 | 58.6 | 41.5 | 17.1 |
| | 22.25-22.30 | 55.8 | 43.9 | 58.5 | 42.5 | 16.0 |
| | 22.30-22.35 | 55.1 | 43.5 | 57.8 | 41.1 | 16.7 |
| | 22.35-22.40 | 55.1 | 43.7 | 57.8 | 41.0 | 16.8 |
| | 22.40-22.45 | 54.7 | 42.7 | 57.4 | 40.8 | 16.6 |
| | 22.45-22.50 | 54.7 | 44.1 | 57.3 | 42.2 | 15.1 |
| | 22.50-22.55 | 54.3 | 44.6 | 56.8 | 41.5 | 15.3 |
| | 22.55-23.00 | 54.2 | 45.7 | 56.5 | 42.7 | 13.8 |
| 11. | 23.00-23.05 | 54.9 | 45.6 | 57.4 | 41.8 | 15.6 |
| | 23.05-23.10 | 54.4 | 44.4 | 56.9 | 41.3 | 15.6 |
| | 23.10-23.15 | 55.5 | 52.4 | 55.6 | 40.7 | 14.9 |
| | 23.15-23.20 | 56.0 | 56.8 | 56.0 | 42.3 | 13.7 |
| | 23.20-23.25 | 55.7 | 43.6 | 58.4 | 40.6 | 17.8 |
| | 23.25-23.30 | 56.0 | 44.6 | 58.7 | 42.5 | 16.2 |
| | 23.30-23.35 | 54.9 | 45.8 | 57.3 | 42.8 | 14.5 |
| | 23.35-23.40 | 54.9 | 45.9 | 57.3 | 41.5 | 15.8 |
| | 23.40-23.45 | 55.6 | 44.0 | 58.3 | 40.8 | 17.5 |
| | 23.45-23.50 | 56.0 | 49.9 | 57.8 | 40.8 | 17.0 |
| | 23.50-23.55 | 56.1 | 46.6 | 58.6 | 41.3 | 17.3 |
| | 23.55-00.00 | 56.1 | 54.2 | 54.6 | 41.8 | 12.8 |
| Standard ^{(1)/(2)} | | | | | | 10 |



TEST REPORT

(6/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 12. | 00.00-00.05 | 56.2 | 43.5 | 59.0 | 41.8 | 17.2 |
| | 00.05-00.10 | 56.1 | 43.5 | 58.9 | 41.1 | 17.8 |
| | 00.10-00.15 | 56.1 | 44.4 | 58.8 | 41.5 | 17.3 |
| | 00.15-00.20 | 56.1 | 43.1 | 58.9 | 41.8 | 17.1 |
| | 00.20-00.25 | 56.1 | 42.0 | 58.9 | 41.0 | 17.9 |
| | 00.25-00.30 | 55.0 | 41.6 | 57.8 | 40.4 | 17.4 |
| | 00.30-00.35 | 55.0 | 41.9 | 57.8 | 40.7 | 17.1 |
| | 00.35-00.40 | 55.1 | 43.8 | 57.8 | 41.4 | 16.4 |
| | 00.40-00.45 | 54.7 | 43.8 | 57.3 | 41.1 | 16.2 |
| | 00.45-00.50 | 54.6 | 44.6 | 57.1 | 41.2 | 15.9 |
| | 00.50-00.55 | 54.8 | 43.3 | 57.5 | 40.5 | 17.0 |
| | 00.55-01.00 | 54.8 | 43.8 | 57.4 | 41.1 | 16.3 |
| 13. | 01.00-01.05 | 54.9 | 45.2 | 57.4 | 40.9 | 16.5 |
| | 01.05-01.10 | 54.7 | 44.9 | 57.2 | 42.1 | 15.1 |
| | 01.10-01.15 | 54.5 | 44.2 | 57.1 | 42.9 | 14.2 |
| | 01.15-01.20 | 55.7 | 45.3 | 58.3 | 43.2 | 15.1 |
| | 01.20-01.25 | 55.6 | 44.3 | 58.3 | 42.5 | 15.8 |
| | 01.25-01.30 | 55.8 | 46.0 | 58.3 | 43.2 | 15.1 |
| | 01.30-01.35 | 55.3 | 44.3 | 57.9 | 41.7 | 16.2 |
| | 01.35-01.40 | 54.1 | 43.6 | 56.7 | 42.1 | 14.6 |
| | 01.40-01.45 | 53.4 | 44.9 | 55.7 | 42.4 | 13.3 |
| | 01.45-01.50 | 54.1 | 44.1 | 56.6 | 42.0 | 14.6 |
| | 01.50-01.55 | 52.5 | 43.1 | 55.0 | 40.8 | 14.2 |
| | 01.55-02.00 | 52.6 | 42.2 | 55.2 | 38.8 | 16.4 |
| 14. | 02.00-02.05 | 54.3 | 40.6 | 57.1 | 39.2 | 17.9 |
| | 02.05-02.10 | 54.2 | 41.6 | 57.0 | 40.4 | 16.6 |
| | 02.10-02.15 | 53.6 | 41.8 | 56.3 | 40.3 | 16.0 |
| | 02.15-02.20 | 52.5 | 40.9 | 55.2 | 39.7 | 15.5 |
| | 02.20-02.25 | 53.7 | 40.4 | 56.5 | 39.4 | 17.1 |
| | 02.25-02.30 | 53.6 | 41.6 | 56.3 | 39.7 | 16.6 |
| | 02.30-02.35 | 53.3 | 41.4 | 56.0 | 40.2 | 15.8 |
| | 02.35-02.40 | 53.0 | 40.7 | 55.7 | 39.6 | 16.1 |
| | 02.40-02.45 | 53.6 | 40.8 | 56.4 | 39.8 | 16.6 |
| | 02.45-02.50 | 54.2 | 41.3 | 57.0 | 40.3 | 16.7 |
| | 02.50-02.55 | 54.1 | 40.6 | 56.9 | 39.8 | 17.1 |
| | 02.55-03.00 | 53.2 | 40.9 | 55.9 | 40.0 | 15.9 |
| 15. | 03.00-03.05 | 52.7 | 40.6 | 55.4 | 39.4 | 16.0 |
| | 03.05-03.10 | 53.2 | 40.9 | 55.9 | 39.9 | 16.0 |
| | 03.10-03.15 | 54.0 | 40.0 | 56.8 | 38.6 | 18.2 |
| | 03.15-03.20 | 54.6 | 41.8 | 57.4 | 39.5 | 17.9 |
| | 03.20-03.25 | 52.0 | 45.4 | 53.9 | 39.7 | 14.2 |
| | 03.25-03.30 | 51.7 | 42.1 | 54.2 | 40.2 | 14.0 |
| | 03.30-03.35 | 54.2 | 43.2 | 56.8 | 40.1 | 16.7 |
| | 03.35-03.40 | 54.3 | 44.1 | 56.9 | 42.2 | 14.7 |
| | 03.40-03.45 | 56.1 | 44.1 | 58.8 | 41.9 | 16.9 |
| | 03.45-03.50 | 55.1 | 44.3 | 57.7 | 42.2 | 15.5 |
| | 03.50-03.55 | 55.1 | 44.2 | 57.7 | 42.2 | 15.5 |
| | 03.55-04.00 | 55.1 | 43.7 | 57.8 | 41.2 | 16.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(6/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 16. | 04.00-04.05 | 54.9 | 41.7 | 57.7 | 40.0 | 17.7 |
| | 04.05-04.10 | 55.9 | 41.7 | 58.7 | 39.6 | 19.1 |
| | 04.10-04.15 | 55.6 | 44.9 | 58.2 | 41.7 | 16.5 |
| | 04.15-04.20 | 58.0 | 43.8 | 60.8 | 41.3 | 19.5 |
| | 04.20-04.25 | 58.3 | 40.6 | 61.2 | 39.6 | 21.6 |
| | 04.25-04.30 | 54.5 | 41.5 | 57.3 | 39.9 | 17.4 |
| | 04.30-04.35 | 53.8 | 48.5 | 55.3 | 39.7 | 15.6 |
| | 04.35-04.40 | 57.5 | 43.9 | 60.3 | 40.2 | 20.1 |
| | 04.40-04.45 | 51.7 | 41.3 | 54.3 | 39.8 | 14.5 |
| | 04.45-04.50 | 52.0 | 46.6 | 53.5 | 41.0 | 12.5 |
| | 04.50-04.55 | 51.1 | 44.5 | 53.0 | 40.7 | 12.3 |
| 17. | 04.55-05.00 | 52.0 | 45.0 | 54.0 | 40.1 | 13.9 |
| | 05.00-05.05 | 50.7 | 48.0 | 50.4 | 41.3 | 9.1 |
| | 05.05-05.10 | 49.9 | 47.9 | 48.6 | 41.5 | 7.1 |
| | 05.10-05.15 | 58.8 | 49.2 | 61.3 | 42.2 | 19.1 |
| | 05.15-05.20 | 52.2 | 47.6 | 53.4 | 42.6 | 10.8 |
| | 05.20-05.25 | 51.2 | 48.0 | 51.4 | 42.6 | 8.8 |
| | 05.25-05.30 | 47.6 | 52.4 | 47.6 | 44.4 | 3.2 |
| | 05.30-05.35 | 48.3 | 50.6 | 48.3 | 44.9 | 3.4 |
| | 05.35-05.40 | 49.1 | 55.8 | 49.1 | 45.8 | 3.3 |
| | 05.40-05.45 | 46.5 | 54.9 | 46.5 | 46.8 | -0.3 |
| | 05.45-05.50 | 54.2 | 56.3 | 54.2 | 46.8 | 7.4 |
| 18. | 05.50-05.55 | 56.1 | 51.3 | 57.4 | 45.7 | 11.7 |
| | 05.55-06.00 | 56.5 | 51.0 | 58.1 | 45.2 | 12.9 |
| | 06.00-07.00 | 54.8 | 52.9 | 50.3 | 42.5 | 7.8 |
| | 07.00-08.00 | 54.0 | 51.5 | 50.4 | 41.9 | 8.5 |
| | 08.00-09.00 | 51.0 | 52.8 | 51.0 | 42.3 | 8.7 |
| | 09.00-10.00 | 50.4 | 52.0 | 50.4 | 41.9 | 8.5 |
| | 10.00-11.00 | 49.1 | 50.4 | 49.1 | 42.6 | 6.5 |
| | 11.00-12.00 | 50.4 | 50.4 | 50.4 | 42.6 | 7.8 |
| | 12.00-13.00 | 50.6 | 52.8 | 50.6 | 44.4 | 6.2 |
| | | | | | | |
| | | | | | | |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/7-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(7/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 13.00-14.00 | 48.6 | 50.6 | 48.6 | 41.1 | 7.5 |
| 2. | 14.00-15.00 | 50.0 | 48.2 | 45.3 | 41.4 | 3.9 |
| 3. | 15.00-16.00 | 49.2 | 46.8 | 45.5 | 41.1 | 4.4 |
| 4. | 16.00-17.00 | 46.7 | 50.5 | 46.7 | 42.6 | 4.1 |
| 5. | 17.00-18.00 | 48.2 | 52.3 | 48.2 | 43.7 | 4.5 |
| 6. | 18.00-19.00 | 47.1 | 48.9 | 47.1 | 39.2 | 7.9 |
| 7. | 19.00-20.00 | 48.5 | 56.7 | 48.5 | 38.9 | 9.6 |
| 8. | 20.00-21.00 | 45.0 | 53.6 | 45.0 | 48.8 | -3.8 |
| 9. | 21.00-22.00 | 46.8 | 48.2 | 46.8 | 44.1 | 2.7 |
| 10. | 22.00-22.05 | 45.6 | 47.3 | 45.6 | 41.6 | 4.0 |
| | 22.05-22.10 | 49.9 | 44.5 | 51.4 | 40.7 | 10.7 |
| | 22.10-22.15 | 47.3 | 44.1 | 47.5 | 41.0 | 6.5 |
| | 22.15-22.20 | 42.8 | 47.6 | 42.8 | 41.6 | 1.2 |
| | 22.20-22.25 | 42.4 | 42.7 | 42.4 | 41.5 | 0.9 |
| | 22.25-22.30 | 48.1 | 43.9 | 49.0 | 42.5 | 6.5 |
| | 22.30-22.35 | 54.7 | 43.5 | 57.4 | 41.1 | 16.3 |
| | 22.35-22.40 | 55.5 | 43.7 | 58.2 | 41.0 | 17.2 |
| | 22.40-22.45 | 55.8 | 42.7 | 58.6 | 40.8 | 17.8 |
| | 22.45-22.50 | 55.8 | 44.1 | 58.5 | 42.2 | 16.3 |
| | 22.50-22.55 | 49.9 | 44.6 | 51.4 | 41.5 | 9.9 |
| | 22.55-23.00 | 49.2 | 45.7 | 49.6 | 42.7 | 6.9 |
| 11. | 23.00-23.05 | 45.8 | 45.6 | 35.3 | 41.8 | -6.5 |
| | 23.05-23.10 | 47.3 | 44.4 | 47.2 | 41.3 | 5.9 |
| | 23.10-23.15 | 47.1 | 52.4 | 47.1 | 40.7 | 6.4 |
| | 23.15-23.20 | 45.3 | 56.8 | 45.3 | 42.3 | 3.0 |
| | 23.20-23.25 | 50.0 | 43.6 | 51.9 | 40.6 | 11.3 |
| | 23.25-23.30 | 49.0 | 44.6 | 50.0 | 42.5 | 7.5 |
| | 23.30-23.35 | 52.2 | 45.8 | 54.1 | 42.8 | 11.3 |
| | 23.35-23.40 | 46.6 | 45.9 | 41.3 | 41.5 | -0.2 |
| | 23.40-23.45 | 47.9 | 44.0 | 48.6 | 40.8 | 7.8 |
| | 23.45-23.50 | 50.3 | 49.9 | 42.7 | 40.8 | 1.9 |
| | 23.50-23.55 | 50.4 | 46.6 | 51.1 | 41.3 | 9.8 |
| | 23.55-00.00 | 50.7 | 54.2 | 50.7 | 41.8 | 8.9 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(7/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 12. | 00.00-00.05 | 51.6 | 43.5 | 53.9 | 41.8 | 12.1 |
| | 00.05-00.10 | 50.1 | 43.5 | 52.0 | 41.1 | 10.9 |
| | 00.10-00.15 | 46.7 | 44.4 | 45.8 | 41.5 | 4.3 |
| | 00.15-00.20 | 47.9 | 43.1 | 49.2 | 41.8 | 7.4 |
| | 00.20-00.25 | 44.1 | 42.0 | 42.9 | 41.0 | 1.9 |
| | 00.25-00.30 | 44.8 | 41.6 | 45.0 | 40.4 | 4.6 |
| | 00.30-00.35 | 43.1 | 41.9 | 39.9 | 40.7 | -0.8 |
| | 00.35-00.40 | 46.0 | 43.8 | 45.0 | 41.4 | 3.6 |
| | 00.40-00.45 | 50.0 | 43.8 | 51.8 | 41.1 | 10.7 |
| | 00.45-00.50 | 50.6 | 44.6 | 52.3 | 41.2 | 11.1 |
| 13. | 00.50-00.55 | 50.5 | 43.3 | 52.6 | 40.5 | 12.1 |
| | 00.55-01.00 | 49.9 | 43.8 | 51.7 | 41.1 | 10.6 |
| | 01.00-01.05 | 48.9 | 45.2 | 49.5 | 40.9 | 8.6 |
| | 01.05-01.10 | 47.6 | 44.9 | 47.3 | 42.1 | 5.2 |
| | 01.10-01.15 | 54.5 | 44.2 | 57.1 | 42.9 | 14.2 |
| | 01.15-01.20 | 49.2 | 45.3 | 49.9 | 43.2 | 6.7 |
| | 01.20-01.25 | 47.5 | 44.3 | 47.7 | 42.5 | 5.2 |
| | 01.25-01.30 | 50.3 | 46.0 | 51.3 | 43.2 | 8.1 |
| | 01.30-01.35 | 49.5 | 44.3 | 50.9 | 41.7 | 9.2 |
| | 01.35-01.40 | 48.2 | 43.6 | 49.4 | 42.1 | 7.3 |
| 14. | 01.40-01.45 | 49.2 | 44.9 | 50.2 | 42.4 | 7.8 |
| | 01.45-01.50 | 49.4 | 44.1 | 50.9 | 42.0 | 8.9 |
| | 01.50-01.55 | 44.7 | 43.1 | 42.6 | 40.8 | 1.8 |
| | 01.55-02.00 | 44.1 | 42.2 | 42.6 | 38.8 | 3.8 |
| | 02.00-02.05 | 49.5 | 40.6 | 51.9 | 39.2 | 12.7 |
| | 02.05-02.10 | 45.9 | 41.6 | 46.9 | 40.4 | 6.5 |
| | 02.10-02.15 | 45.5 | 41.8 | 46.1 | 40.3 | 5.8 |
| | 02.15-02.20 | 50.1 | 40.9 | 52.5 | 39.7 | 12.8 |
| | 02.20-02.25 | 48.7 | 40.4 | 51.0 | 39.4 | 11.6 |
| | 02.25-02.30 | 55.0 | 41.6 | 57.8 | 39.7 | 18.1 |
| 15. | 02.30-02.35 | 48.0 | 41.4 | 49.9 | 40.2 | 9.7 |
| | 02.35-02.40 | 49.9 | 40.7 | 52.3 | 39.6 | 12.7 |
| | 02.40-02.45 | 51.0 | 40.8 | 53.6 | 39.8 | 13.8 |
| | 02.45-02.50 | 47.6 | 41.3 | 49.4 | 40.3 | 9.1 |
| | 02.50-02.55 | 51.5 | 40.6 | 54.1 | 39.8 | 14.3 |
| | 02.55-03.00 | 49.0 | 40.9 | 51.3 | 40.0 | 11.3 |
| | 03.00-03.05 | 52.2 | 40.6 | 54.9 | 39.4 | 15.5 |
| | 03.05-03.10 | 50.3 | 40.9 | 52.8 | 39.9 | 12.9 |
| | 03.10-03.15 | 49.2 | 40.0 | 51.6 | 38.6 | 13.0 |
| | 03.15-03.20 | 45.0 | 41.8 | 45.2 | 39.5 | 5.7 |
| | 03.20-03.25 | 49.8 | 45.4 | 50.8 | 39.7 | 11.1 |
| | 03.25-03.30 | 45.1 | 42.1 | 45.1 | 40.2 | 4.9 |
| | 03.30-03.35 | 44.3 | 43.2 | 40.8 | 40.1 | 0.7 |
| | 03.35-03.40 | 47.7 | 44.1 | 48.2 | 42.2 | 6.0 |
| | 03.40-03.45 | 46.3 | 44.1 | 45.3 | 41.9 | 3.4 |
| | 03.45-03.50 | 47.7 | 44.3 | 48.0 | 42.2 | 5.8 |
| | 03.50-03.55 | 46.9 | 44.2 | 46.6 | 42.2 | 4.4 |
| | 03.55-04.00 | 46.3 | 43.7 | 45.8 | 41.2 | 4.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(7/3-3)

| Item | Time | Result (dB(A)) | | | | |
|------|----------------------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วัดหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 16. | 04.00-04.05 | 45.2 | 41.7 | 45.6 | 40.0 | 5.6 |
| | 04.05-04.10 | 45.4 | 41.7 | 46.0 | 39.6 | 6.4 |
| | 04.10-04.15 | 47.9 | 44.9 | 47.9 | 41.7 | 6.2 |
| | 04.15-04.20 | 46.4 | 43.8 | 45.9 | 41.3 | 4.6 |
| | 04.20-04.25 | 51.3 | 40.6 | 53.9 | 39.6 | 14.3 |
| | 04.25-04.30 | 48.5 | 41.5 | 50.5 | 39.9 | 10.6 |
| | 04.30-04.35 | 48.5 | 48.5 | 48.5 | 39.7 | 8.8 |
| | 04.35-04.40 | 48.5 | 43.9 | 49.7 | 40.2 | 9.5 |
| | 04.40-04.45 | 46.3 | 41.3 | 47.6 | 39.8 | 7.8 |
| | 04.45-04.50 | 44.4 | 46.6 | 44.4 | 41.0 | 3.4 |
| | 04.50-04.55 | 47.0 | 44.5 | 46.4 | 40.7 | 5.7 |
| 17. | 04.55-05.00 | 48.5 | 45.0 | 48.9 | 40.1 | 8.8 |
| | 05.00-05.05 | 49.3 | 48.0 | 46.4 | 41.3 | 5.1 |
| | 05.05-05.10 | 47.9 | 47.9 | 47.9 | 41.5 | 6.4 |
| | 05.10-05.15 | 46.9 | 49.2 | 46.9 | 42.2 | 4.7 |
| | 05.15-05.20 | 51.3 | 47.6 | 51.9 | 42.6 | 9.3 |
| | 05.20-05.25 | 54.7 | 48.0 | 56.7 | 42.6 | 14.1 |
| | 05.25-05.30 | 53.2 | 52.4 | 48.5 | 44.4 | 4.1 |
| | 05.30-05.35 | 51.5 | 50.6 | 47.2 | 44.9 | 2.3 |
| | 05.35-05.40 | 55.1 | 55.8 | 55.1 | 45.8 | 9.3 |
| | 05.40-05.45 | 55.1 | 54.9 | 44.6 | 46.8 | -2.2 |
| | 05.45-05.50 | 52.3 | 56.3 | 52.3 | 46.8 | 5.5 |
| 18. | 05.50-05.55 | 56.4 | 51.3 | 57.8 | 45.7 | 12.1 |
| | 05.55-06.00 | 43.3 | 51.0 | 43.3 | 45.2 | -1.9 |
| | 06.00-07.00 | 49.6 | 52.9 | 49.6 | 42.5 | 7.1 |
| | 07.00-08.00 | 49.1 | 51.5 | 49.1 | 41.9 | 7.2 |
| | 08.00-09.00 | 53.2 | 52.8 | 42.6 | 42.3 | 0.3 |
| | 09.00-10.00 | 51.3 | 52.0 | 51.3 | 41.9 | 9.4 |
| | 10.00-11.00 | 52.8 | 50.4 | 49.1 | 42.6 | 6.5 |
| | 11.00-12.00 | 52.3 | 50.4 | 47.8 | 42.6 | 5.2 |
| | 12.00-13.00 | 52.9 | 52.8 | 36.5 | 44.4 | -7.9 |
| | Standard ⁽¹⁾⁽²⁾ | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/8-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(8/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 55.4 | 56.4 | 55.4 | 44.3 | 11.1 |
| 2. | 16.00-17.00 | 55.1 | 50.3 | 53.4 | 39.6 | 13.8 |
| 3. | 17.00-18.00 | 56.0 | 50.6 | 54.5 | 38.5 | 16.0 |
| 4. | 18.00-19.00 | 55.0 | 50.6 | 53.0 | 44.6 | 8.4 |
| 5. | 19.00-20.00 | 52.5 | 53.6 | 52.5 | 42.3 | 10.2 |
| 6. | 20.00-21.00 | 48.8 | 50.8 | 48.8 | 40.6 | 8.2 |
| 7. | 21.00-22.00 | 47.0 | 54.4 | 47.0 | 39.3 | 7.7 |
| 8. | 22.00-22.05 | 44.1 | 57.1 | 44.1 | 40.5 | 3.6 |
| | 22.05-22.10 | 50.4 | 51.0 | 50.4 | 38.5 | 11.9 |
| | 22.10-22.15 | 50.9 | 48.2 | 50.6 | 38.8 | 11.8 |
| | 22.15-22.20 | 50.3 | 55.1 | 50.3 | 40.1 | 10.2 |
| | 22.20-22.25 | 55.7 | 51.1 | 56.9 | 39.8 | 17.1 |
| | 22.25-22.30 | 55.3 | 58.8 | 55.3 | 39.8 | 15.5 |
| | 22.30-22.35 | 53.9 | 54.7 | 53.9 | 38.9 | 15.0 |
| | 22.35-22.40 | 53.7 | 43.9 | 56.2 | 39.2 | 17.0 |
| | 22.40-22.45 | 48.1 | 42.2 | 49.8 | 37.9 | 11.9 |
| | 22.45-22.50 | 49.4 | 51.6 | 49.4 | 38.8 | 10.6 |
| | 22.50-22.55 | 48.8 | 49.9 | 48.8 | 38.2 | 10.6 |
| | 22.55-23.00 | 57.4 | 42.1 | 60.3 | 39.0 | 21.3 |
| 9. | 23.00-23.05 | 49.9 | 41.8 | 52.2 | 38.3 | 13.9 |
| | 23.05-23.10 | 46.8 | 42.2 | 48.0 | 37.5 | 10.5 |
| | 23.10-23.15 | 47.0 | 43.1 | 47.7 | 38.2 | 9.5 |
| | 23.15-23.20 | 48.4 | 42.4 | 50.1 | 37.8 | 12.3 |
| | 23.20-23.25 | 47.7 | 41.6 | 49.5 | 38.9 | 10.6 |
| | 23.25-23.30 | 48.3 | 43.1 | 49.7 | 37.5 | 12.2 |
| | 23.30-23.35 | 48.1 | 41.2 | 50.1 | 37.6 | 12.5 |
| | 23.35-23.40 | 47.9 | 43.2 | 49.1 | 41.1 | 8.0 |
| | 23.40-23.45 | 49.0 | 49.1 | 49.0 | 44.0 | 5.0 |
| | 23.45-23.50 | 48.6 | 52.5 | 48.6 | 51.0 | -2.4 |
| | 23.50-23.55 | 48.9 | 50.7 | 48.9 | 49.1 | -0.2 |
| | 23.55-00.00 | 50.1 | 52.5 | 50.1 | 50.4 | -0.3 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(8/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 54.8 | 52.7 | 53.6 | 51.5 | 2.1 |
| | 00.05-00.10 | 48.3 | 53.1 | 48.3 | 51.7 | -3.4 |
| | 00.10-00.15 | 47.8 | 51.8 | 47.8 | 50.0 | -2.2 |
| | 00.15-00.20 | 52.9 | 52.2 | 47.6 | 50.1 | -2.5 |
| | 00.20-00.25 | 59.8 | 52.4 | 61.9 | 50.4 | 11.5 |
| | 00.25-00.30 | 52.3 | 50.2 | 51.1 | 48.5 | 2.6 |
| | 00.30-00.35 | 50.9 | 50.0 | 46.6 | 48.6 | -2.0 |
| | 00.35-00.40 | 53.1 | 50.4 | 52.8 | 49.0 | 3.8 |
| | 00.40-00.45 | 54.4 | 52.4 | 53.1 | 50.0 | 3.1 |
| | 00.45-00.50 | 51.3 | 50.6 | 46.0 | 48.8 | -2.8 |
| | 00.50-00.55 | 48.0 | 49.8 | 48.0 | 48.8 | -0.8 |
| 11. | 00.55-01.00 | 48.9 | 49.1 | 48.9 | 48.2 | 0.7 |
| | 01.00-01.05 | 48.3 | 49.0 | 48.3 | 47.9 | 0.4 |
| | 01.05-01.10 | 46.6 | 50.0 | 46.6 | 49.1 | -2.5 |
| | 01.10-01.15 | 49.4 | 51.3 | 49.4 | 49.7 | -0.3 |
| | 01.15-01.20 | 51.3 | 57.9 | 51.3 | 48.8 | 2.5 |
| | 01.20-01.25 | 52.2 | 48.9 | 52.5 | 48.0 | 4.5 |
| | 01.25-01.30 | 50.8 | 49.5 | 47.9 | 48.2 | -0.3 |
| | 01.30-01.35 | 47.7 | 48.8 | 47.7 | 48.0 | -0.3 |
| | 01.35-01.40 | 51.4 | 49.0 | 50.7 | 47.7 | 3.0 |
| | 01.40-01.45 | 50.1 | 48.1 | 48.8 | 47.2 | 1.6 |
| | 01.45-01.50 | 49.0 | 48.0 | 45.1 | 46.8 | -1.7 |
| 12. | 01.50-01.55 | 47.9 | 48.1 | 47.9 | 46.9 | 1.0 |
| | 01.55-02.00 | 49.9 | 48.6 | 47.0 | 47.2 | -0.2 |
| | 02.00-02.05 | 51.6 | 48.9 | 51.3 | 47.8 | 3.5 |
| | 02.05-02.10 | 50.5 | 49.6 | 46.2 | 48.1 | -1.9 |
| | 02.10-02.15 | 50.4 | 50.5 | 50.4 | 49.5 | 0.9 |
| | 02.15-02.20 | 48.8 | 47.3 | 46.5 | 41.8 | 4.7 |
| | 02.20-02.25 | 46.4 | 49.3 | 46.4 | 46.4 | 0.0 |
| | 02.25-02.30 | 46.8 | 47.8 | 46.8 | 44.5 | 2.3 |
| | 02.30-02.35 | 55.9 | 46.9 | 58.3 | 44.5 | 13.8 |
| | 02.35-02.40 | 49.6 | 48.3 | 46.7 | 46.3 | 0.4 |
| | 02.40-02.45 | 54.2 | 49.1 | 55.6 | 47.6 | 8.0 |
| 13. | 02.45-02.50 | 53.2 | 48.9 | 54.2 | 47.5 | 6.7 |
| | 02.50-02.55 | 51.4 | 49.3 | 50.2 | 48.0 | 2.2 |
| | 02.55-03.00 | 49.6 | 49.0 | 43.7 | 47.5 | -3.8 |
| | 03.00-03.05 | 48.8 | 49.3 | 48.8 | 46.9 | 1.9 |
| | 03.05-03.10 | 46.7 | 49.3 | 46.7 | 47.7 | -1.0 |
| | 03.10-03.15 | 46.8 | 49.2 | 46.8 | 47.9 | -1.1 |
| | 03.15-03.20 | 46.6 | 47.3 | 46.6 | 45.3 | 1.3 |
| | 03.20-03.25 | 46.7 | 47.2 | 46.7 | 45.5 | 1.2 |
| | 03.25-03.30 | 47.7 | 46.5 | 44.5 | 44.5 | 0.0 |
| | 03.30-03.35 | 46.6 | 48.7 | 46.6 | 45.1 | 1.5 |
| | 03.35-03.40 | 46.8 | 52.2 | 46.8 | 48.2 | -1.4 |
| | 03.40-03.45 | 47.4 | 54.2 | 47.4 | 50.2 | -2.8 |
| | 03.45-03.50 | 46.2 | 53.8 | 46.2 | 49.1 | -2.9 |
| | 03.50-03.55 | 47.3 | 54.0 | 47.3 | 49.9 | -2.6 |
| | 03.55-04.00 | 47.0 | 54.0 | 47.0 | 49.6 | -2.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(8/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 47.9 | 54.3 | 47.9 | 50.2 | -2.3 |
| | 04.05-04.10 | 56.2 | 53.9 | 55.3 | 49.4 | 5.9 |
| | 04.10-04.15 | 47.9 | 53.9 | 47.9 | 49.9 | -2.0 |
| | 04.15-04.20 | 47.3 | 54.0 | 47.3 | 50.1 | -2.8 |
| | 04.20-04.25 | 47.2 | 53.6 | 47.2 | 49.7 | -2.5 |
| | 04.25-04.30 | 49.8 | 53.8 | 49.8 | 49.5 | 0.3 |
| | 04.30-04.35 | 47.7 | 53.8 | 47.7 | 49.7 | -2.0 |
| | 04.35-04.40 | 47.2 | 53.4 | 47.2 | 48.1 | -0.9 |
| | 04.40-04.45 | 46.4 | 51.9 | 46.4 | 45.7 | 0.7 |
| | 04.45-04.50 | 48.9 | 45.4 | 49.3 | 44.0 | 5.3 |
| | 04.50-04.55 | 47.5 | 45.4 | 46.3 | 43.6 | 2.7 |
| 15. | 04.55-05.00 | 53.0 | 45.7 | 55.1 | 44.6 | 10.5 |
| | 05.00-05.05 | 48.8 | 45.5 | 49.1 | 44.4 | 4.7 |
| | 05.05-05.10 | 47.6 | 46.3 | 44.7 | 44.8 | -0.1 |
| | 05.10-05.15 | 46.2 | 46.1 | 32.8 | 44.6 | -11.8 |
| | 05.15-05.20 | 48.1 | 46.0 | 46.9 | 44.8 | 2.1 |
| | 05.20-05.25 | 48.1 | 46.1 | 46.8 | 44.0 | 2.8 |
| | 05.25-05.30 | 49.1 | 46.6 | 48.5 | 44.2 | 4.3 |
| | 05.30-05.35 | 50.8 | 46.0 | 52.1 | 44.8 | 7.3 |
| | 05.35-05.40 | 50.6 | 46.6 | 51.4 | 45.0 | 6.4 |
| | 05.40-05.45 | 50.5 | 47.0 | 50.9 | 45.8 | 5.1 |
| | 05.45-05.50 | 47.6 | 47.0 | 41.7 | 45.8 | -4.1 |
| 16. | 05.50-05.55 | 48.3 | 47.6 | 43.0 | 46.5 | -3.5 |
| | 05.55-06.00 | 47.4 | 47.2 | 36.9 | 46.1 | -9.2 |
| | 06.00-07.00 | 50.2 | 53.2 | 50.2 | 39.0 | 11.2 |
| | 07.00-08.00 | 52.0 | 48.9 | 49.1 | 45.2 | 3.9 |
| | 08.00-09.00 | 53.1 | 49.7 | 50.4 | 45.6 | 4.8 |
| | 09.00-10.00 | 51.0 | 50.4 | 42.1 | 45.8 | -3.7 |
| | 10.00-11.00 | 51.5 | 52.3 | 51.5 | 48.4 | 3.1 |
| | 11.00-12.00 | 50.5 | 53.0 | 50.5 | 49.0 | 1.5 |
| | 12.00-13.00 | 53.9 | 56.2 | 53.9 | 42.4 | 11.5 |
| | 13.00-14.00 | 53.3 | 55.0 | 53.3 | 41.7 | 11.6 |
| | 14.00-15.00 | 54.2 | 54.0 | 40.7 | 41.7 | -1.0 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตรไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ
จังหวัดพิจิตร 66150
Job No. : S660183/June

Report No. : 1646/2023/9-42
Report Date : June 13, 2023
Sampling Date : April 19-26 & June 4-5, 2023
Type of Sample : เสียงรบกวน

(9/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|---------------------------------|------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีกรรบกวน (Leq) | ระดับเสียงขณะมีกรรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 56.1 | 56.4 | 56.1 | 44.3 | 11.8 |
| 2. | 16.00-17.00 | 53.7 | 50.3 | 51.0 | 39.6 | 11.4 |
| 3. | 17.00-18.00 | 50.3 | 50.6 | 50.3 | 38.5 | 11.8 |
| 4. | 18.00-19.00 | 53.2 | 50.6 | 49.7 | 44.6 | 5.1 |
| 5. | 19.00-20.00 | 54.0 | 53.6 | 43.4 | 42.3 | 1.1 |
| 6. | 20.00-21.00 | 49.7 | 50.8 | 49.7 | 40.6 | 9.1 |
| 7. | 21.00-22.00 | 50.0 | 54.4 | 50.0 | 39.3 | 10.7 |
| 8. | 22.00-22.05 | 53.2 | 57.1 | 53.2 | 40.5 | 12.7 |
| | 22.05-22.10 | 50.7 | 51.0 | 50.7 | 38.5 | 12.2 |
| | 22.10-22.15 | 53.7 | 48.2 | 55.3 | 38.8 | 16.5 |
| | 22.15-22.20 | 53.9 | 55.1 | 53.9 | 40.1 | 13.8 |
| | 22.20-22.25 | 54.6 | 51.1 | 55.0 | 39.8 | 15.2 |
| | 22.25-22.30 | 53.8 | 58.8 | 53.8 | 39.8 | 14.0 |
| | 22.30-22.35 | 56.8 | 54.7 | 55.6 | 38.9 | 16.7 |
| | 22.35-22.40 | 51.4 | 43.9 | 53.5 | 39.2 | 14.3 |
| | 22.40-22.45 | 56.6 | 42.2 | 59.4 | 37.9 | 21.5 |
| | 22.45-22.50 | 49.4 | 51.6 | 49.4 | 38.8 | 10.6 |
| | 22.50-22.55 | 49.6 | 49.9 | 49.6 | 38.2 | 11.4 |
| | 22.55-23.00 | 50.8 | 42.1 | 53.2 | 39.0 | 14.2 |
| 9. | 23.00-23.05 | 52.5 | 41.8 | 55.1 | 38.3 | 16.8 |
| | 23.05-23.10 | 49.3 | 42.2 | 51.4 | 37.5 | 13.9 |
| | 23.10-23.15 | 52.4 | 43.1 | 54.9 | 38.2 | 16.7 |
| | 23.15-23.20 | 55.0 | 42.4 | 57.8 | 37.8 | 20.0 |
| | 23.20-23.25 | 51.3 | 41.6 | 53.8 | 38.9 | 14.9 |
| | 23.25-23.30 | 53.2 | 43.1 | 55.8 | 37.5 | 18.3 |
| | 23.30-23.35 | 51.4 | 41.2 | 54.0 | 37.6 | 16.4 |
| | 23.35-23.40 | 50.8 | 43.2 | 53.0 | 41.1 | 11.9 |
| | 23.40-23.45 | 51.8 | 49.1 | 51.5 | 44.0 | 7.5 |
| | 23.45-23.50 | 49.1 | 52.5 | 49.1 | 51.0 | -1.9 |
| | 23.50-23.55 | 49.9 | 50.7 | 49.9 | 49.1 | 0.8 |
| | 23.55-00.00 | 50.6 | 52.5 | 50.6 | 50.4 | 0.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(9/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 50.9 | 52.7 | 50.9 | 51.5 | -0.6 |
| | 00.05-00.10 | 50.1 | 53.1 | 50.1 | 51.7 | -1.6 |
| | 00.10-00.15 | 50.0 | 51.8 | 50.0 | 50.0 | 0.0 |
| | 00.15-00.20 | 50.1 | 52.2 | 50.1 | 50.1 | 0.0 |
| | 00.20-00.25 | 56.7 | 52.4 | 57.7 | 50.4 | 7.3 |
| | 00.25-00.30 | 52.2 | 50.2 | 50.9 | 48.5 | 2.4 |
| | 00.30-00.35 | 52.3 | 50.0 | 51.4 | 48.6 | 2.8 |
| | 00.35-00.40 | 58.5 | 50.4 | 60.8 | 49.0 | 11.8 |
| | 00.40-00.45 | 51.1 | 52.4 | 51.1 | 50.0 | 1.1 |
| | 00.45-00.50 | 54.9 | 50.6 | 55.9 | 48.8 | 7.1 |
| 11. | 00.50-00.55 | 51.3 | 49.8 | 49.0 | 48.8 | 0.2 |
| | 00.55-01.00 | 52.7 | 49.1 | 53.2 | 48.2 | 5.0 |
| | 01.00-01.05 | 52.5 | 49.0 | 52.9 | 47.9 | 5.0 |
| | 01.05-01.10 | 49.5 | 50.0 | 49.5 | 49.1 | 0.4 |
| | 01.10-01.15 | 51.0 | 51.3 | 51.0 | 49.7 | 1.3 |
| | 01.15-01.20 | 51.3 | 57.9 | 51.3 | 48.8 | 2.5 |
| | 01.20-01.25 | 51.4 | 48.9 | 50.8 | 48.0 | 2.8 |
| | 01.25-01.30 | 50.9 | 49.5 | 48.3 | 48.2 | 0.1 |
| | 01.30-01.35 | 50.2 | 48.8 | 47.6 | 48.0 | -0.4 |
| | 01.35-01.40 | 52.1 | 49.0 | 52.2 | 47.7 | 4.5 |
| 12. | 01.40-01.45 | 52.7 | 48.1 | 53.9 | 47.2 | 6.7 |
| | 01.45-01.50 | 51.8 | 48.0 | 52.5 | 46.8 | 5.7 |
| | 01.50-01.55 | 53.1 | 48.1 | 54.4 | 46.9 | 7.5 |
| | 01.55-02.00 | 50.8 | 48.6 | 49.8 | 47.2 | 2.6 |
| | 02.00-02.05 | 51.7 | 48.9 | 51.5 | 47.8 | 3.7 |
| | 02.05-02.10 | 50.5 | 49.6 | 46.2 | 48.1 | -1.9 |
| | 02.10-02.15 | 50.9 | 50.5 | 43.3 | 49.5 | -6.2 |
| | 02.15-02.20 | 50.9 | 47.3 | 51.4 | 41.8 | 9.6 |
| | 02.20-02.25 | 51.0 | 49.3 | 49.1 | 46.4 | 2.7 |
| | 02.25-02.30 | 51.4 | 47.8 | 51.9 | 44.5 | 7.4 |
| 13. | 02.30-02.35 | 50.6 | 46.9 | 51.2 | 44.5 | 6.7 |
| | 02.35-02.40 | 49.8 | 48.3 | 47.5 | 46.3 | 1.2 |
| | 02.40-02.45 | 51.2 | 49.1 | 50.0 | 47.6 | 2.4 |
| | 02.45-02.50 | 50.8 | 48.9 | 49.3 | 47.5 | 1.8 |
| | 02.50-02.55 | 51.1 | 49.3 | 49.4 | 48.0 | 1.4 |
| | 02.55-03.00 | 50.3 | 49.0 | 47.4 | 47.5 | -0.1 |
| | 03.00-03.05 | 49.9 | 49.3 | 44.0 | 46.9 | -2.9 |
| | 03.05-03.10 | 49.6 | 49.3 | 40.8 | 47.7 | -6.9 |
| | 03.10-03.15 | 50.0 | 49.2 | 45.3 | 47.9 | -2.6 |
| | 03.15-03.20 | 50.2 | 47.3 | 50.1 | 45.3 | 4.8 |
| | 03.20-03.25 | 50.6 | 47.2 | 50.9 | 45.5 | 5.4 |
| | 03.25-03.30 | 50.3 | 46.5 | 51.0 | 44.5 | 6.5 |
| | 03.30-03.35 | 49.5 | 48.7 | 44.8 | 45.1 | -0.3 |
| | 03.35-03.40 | 49.3 | 52.2 | 49.3 | 48.2 | 1.1 |
| | 03.40-03.45 | 50.7 | 54.2 | 50.7 | 50.2 | 0.5 |
| | 03.45-03.50 | 51.2 | 53.8 | 51.2 | 49.1 | 2.1 |
| | 03.50-03.55 | 49.9 | 54.0 | 49.9 | 49.9 | 0.0 |
| | 03.55-04.00 | 50.8 | 54.0 | 50.8 | 49.6 | 1.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(9/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 49.8 | 54.3 | 49.8 | 50.2 | -0.4 |
| | 04.05-04.10 | 49.5 | 53.9 | 49.5 | 49.4 | 0.1 |
| | 04.10-04.15 | 51.6 | 53.9 | 51.6 | 49.9 | 1.7 |
| | 04.15-04.20 | 51.6 | 54.0 | 51.6 | 50.1 | 1.5 |
| | 04.20-04.25 | 50.9 | 53.6 | 50.9 | 49.7 | 1.2 |
| | 04.25-04.30 | 49.9 | 53.8 | 49.9 | 49.5 | 0.4 |
| | 04.30-04.35 | 52.1 | 53.8 | 52.1 | 49.7 | 2.4 |
| | 04.35-04.40 | 49.9 | 53.4 | 49.9 | 48.1 | 1.8 |
| | 04.40-04.45 | 49.7 | 51.9 | 49.7 | 45.7 | 4.0 |
| | 04.45-04.50 | 49.5 | 45.4 | 50.4 | 44.0 | 6.4 |
| 15. | 04.50-04.55 | 49.3 | 45.4 | 50.0 | 43.6 | 6.4 |
| | 04.55-05.00 | 48.8 | 45.7 | 48.9 | 44.6 | 4.3 |
| | 05.00-05.05 | 49.3 | 45.5 | 50.0 | 44.4 | 5.6 |
| | 05.05-05.10 | 49.0 | 46.3 | 48.7 | 44.8 | 3.9 |
| | 05.10-05.15 | 48.9 | 46.1 | 48.7 | 44.6 | 4.1 |
| | 05.15-05.20 | 55.4 | 46.0 | 57.9 | 44.8 | 13.1 |
| | 05.20-05.25 | 48.7 | 46.1 | 48.2 | 44.0 | 4.2 |
| | 05.25-05.30 | 48.7 | 46.6 | 47.5 | 44.2 | 3.3 |
| | 05.30-05.35 | 47.6 | 46.0 | 45.5 | 44.8 | 0.7 |
| | 05.35-05.40 | 47.6 | 46.6 | 43.7 | 45.0 | -1.3 |
| 16. | 05.40-05.45 | 49.5 | 47.0 | 48.9 | 45.8 | 3.1 |
| | 05.45-05.50 | 48.6 | 47.0 | 46.5 | 45.8 | 0.7 |
| | 05.50-05.55 | 48.6 | 47.6 | 44.7 | 46.5 | -1.8 |
| | 05.55-06.00 | 48.2 | 47.2 | 44.3 | 46.1 | -1.8 |
| | 06.00-07.00 | 47.9 | 53.2 | 47.9 | 39.0 | 8.9 |
| | 07.00-08.00 | 49.0 | 48.9 | 32.6 | 45.2 | -12.6 |
| | 08.00-09.00 | 50.9 | 49.7 | 44.7 | 45.6 | -0.9 |
| | 09.00-10.00 | 48.9 | 50.4 | 48.9 | 45.8 | 3.1 |
| | 10.00-11.00 | 51.5 | 52.3 | 51.5 | 48.4 | 3.1 |
| | 11.00-12.00 | 51.2 | 53.0 | 51.2 | 49.0 | 2.2 |
| 22. | 12.00-13.00 | 53.6 | 56.2 | 53.6 | 42.4 | 11.2 |
| | 13.00-14.00 | 52.8 | 55.0 | 52.8 | 41.7 | 11.1 |
| 24. | 14.00-15.00 | 53.9 | 54.0 | 53.9 | 41.7 | 12.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/10-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(10/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 53.0 | 56.4 | 53.0 | 44.3 | 8.7 |
| 2. | 16.00-17.00 | 52.4 | 50.3 | 48.2 | 39.6 | 8.6 |
| 3. | 17.00-18.00 | 50.1 | 50.6 | 50.1 | 38.5 | 11.6 |
| 4. | 18.00-19.00 | 51.4 | 50.6 | 43.7 | 44.6 | -0.9 |
| 5. | 19.00-20.00 | 51.8 | 53.6 | 51.8 | 42.3 | 9.5 |
| 6. | 20.00-21.00 | 52.8 | 50.8 | 48.5 | 40.6 | 7.9 |
| 7. | 21.00-22.00 | 53.5 | 54.4 | 53.5 | 39.3 | 14.2 |
| 8. | 22.00-22.05 | 52.3 | 57.1 | 52.3 | 40.5 | 11.8 |
| | 22.05-22.10 | 52.0 | 51.0 | 48.1 | 38.5 | 9.6 |
| | 22.10-22.15 | 58.6 | 48.2 | 61.2 | 38.8 | 22.4 |
| | 22.15-22.20 | 55.5 | 55.1 | 47.9 | 40.1 | 7.8 |
| | 22.20-22.25 | 59.3 | 51.1 | 61.6 | 39.8 | 21.8 |
| | 22.25-22.30 | 53.8 | 58.8 | 53.8 | 39.8 | 14.0 |
| | 22.30-22.35 | 50.6 | 54.7 | 50.6 | 38.9 | 11.7 |
| | 22.35-22.40 | 52.2 | 43.9 | 54.5 | 39.2 | 15.3 |
| | 22.40-22.45 | 53.5 | 42.2 | 56.2 | 37.9 | 18.3 |
| | 22.45-22.50 | 51.2 | 51.6 | 51.2 | 38.8 | 12.4 |
| | 22.50-22.55 | 55.2 | 49.9 | 56.7 | 38.2 | 18.5 |
| | 22.55-23.00 | 48.4 | 42.1 | 50.2 | 39.0 | 11.2 |
| 9. | 23.00-23.05 | 53.8 | 41.8 | 56.5 | 38.3 | 18.2 |
| | 23.05-23.10 | 47.1 | 42.2 | 48.4 | 37.5 | 10.9 |
| | 23.10-23.15 | 51.7 | 43.1 | 54.1 | 38.2 | 15.9 |
| | 23.15-23.20 | 49.6 | 42.4 | 51.7 | 37.8 | 13.9 |
| | 23.20-23.25 | 47.3 | 41.6 | 48.9 | 38.9 | 10.0 |
| | 23.25-23.30 | 47.3 | 43.1 | 48.2 | 37.5 | 10.7 |
| | 23.30-23.35 | 47.7 | 41.2 | 49.6 | 37.6 | 12.0 |
| | 23.35-23.40 | 47.9 | 43.2 | 49.1 | 41.1 | 8.0 |
| | 23.40-23.45 | 48.7 | 49.1 | 48.7 | 44.0 | 4.7 |
| | 23.45-23.50 | 47.8 | 52.5 | 47.8 | 51.0 | -3.2 |
| | 23.50-23.55 | 47.8 | 50.7 | 47.8 | 49.1 | -1.3 |
| | 23.55-00.00 | 47.3 | 52.5 | 47.3 | 50.4 | -3.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(10/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 48.9 | 52.7 | 48.9 | 51.5 | -2.6 |
| | 00.05-00.10 | 52.0 | 53.1 | 52.0 | 51.7 | 0.3 |
| | 00.10-00.15 | 54.2 | 51.8 | 53.5 | 50.0 | 3.5 |
| | 00.15-00.20 | 54.5 | 52.2 | 53.6 | 50.1 | 3.5 |
| | 00.20-00.25 | 56.8 | 52.4 | 57.8 | 50.4 | 7.4 |
| | 00.25-00.30 | 49.9 | 50.2 | 49.9 | 48.5 | 1.4 |
| | 00.30-00.35 | 50.4 | 50.0 | 42.8 | 48.6 | -5.8 |
| | 00.35-00.40 | 50.7 | 50.4 | 41.9 | 49.0 | -7.1 |
| | 00.40-00.45 | 51.3 | 52.4 | 51.3 | 50.0 | 1.3 |
| | 00.45-00.50 | 51.6 | 50.6 | 47.7 | 48.8 | -1.1 |
| 11. | 00.50-00.55 | 51.7 | 49.8 | 50.2 | 48.8 | 1.4 |
| | 00.55-01.00 | 49.5 | 49.1 | 41.9 | 48.2 | -6.3 |
| | 01.00-01.05 | 54.7 | 49.0 | 56.3 | 47.9 | 8.4 |
| | 01.05-01.10 | 55.7 | 50.0 | 57.3 | 49.1 | 8.2 |
| | 01.10-01.15 | 47.5 | 51.3 | 47.5 | 49.7 | -2.2 |
| | 01.15-01.20 | 48.3 | 57.9 | 48.3 | 48.8 | -0.5 |
| | 01.20-01.25 | 48.4 | 48.9 | 48.4 | 48.0 | 0.4 |
| | 01.25-01.30 | 48.5 | 49.5 | 48.5 | 48.2 | 0.3 |
| | 01.30-01.35 | 48.9 | 48.8 | 35.5 | 48.0 | -12.5 |
| | 01.35-01.40 | 48.8 | 49.0 | 48.8 | 47.7 | 1.1 |
| 12. | 01.40-01.45 | 48.6 | 48.1 | 42.0 | 47.2 | -5.2 |
| | 01.45-01.50 | 49.0 | 48.0 | 45.1 | 46.8 | -1.7 |
| | 01.50-01.55 | 49.0 | 48.1 | 44.7 | 46.9 | -2.2 |
| | 01.55-02.00 | 49.3 | 48.6 | 44.0 | 47.2 | -3.2 |
| | 02.00-02.05 | 49.2 | 48.9 | 40.4 | 47.8 | -7.4 |
| | 02.05-02.10 | 51.7 | 49.6 | 50.5 | 48.1 | 2.4 |
| | 02.10-02.15 | 50.1 | 50.5 | 50.1 | 49.5 | 0.6 |
| | 02.15-02.20 | 50.0 | 47.3 | 49.7 | 41.8 | 7.9 |
| | 02.20-02.25 | 49.5 | 49.3 | 39.0 | 46.4 | -7.4 |
| | 02.25-02.30 | 50.8 | 47.8 | 50.8 | 44.5 | 6.3 |
| 13. | 02.30-02.35 | 48.8 | 46.9 | 47.3 | 44.5 | 2.8 |
| | 02.35-02.40 | 49.2 | 48.3 | 44.9 | 46.3 | -1.4 |
| | 02.40-02.45 | 49.3 | 49.1 | 38.8 | 47.6 | -8.8 |
| | 02.45-02.50 | 51.3 | 48.9 | 50.6 | 47.5 | 3.1 |
| | 02.50-02.55 | 57.6 | 49.3 | 59.9 | 48.0 | 11.9 |
| | 02.55-03.00 | 49.3 | 49.0 | 40.5 | 47.5 | -7.0 |
| | 03.00-03.05 | 49.4 | 49.3 | 36.0 | 46.9 | -10.9 |
| | 03.05-03.10 | 56.6 | 49.3 | 58.7 | 47.7 | 11.0 |
| | 03.10-03.15 | 49.4 | 49.2 | 38.9 | 47.9 | -9.0 |
| | 03.15-03.20 | 49.5 | 47.3 | 48.5 | 45.3 | 3.2 |
| | 03.20-03.25 | 55.7 | 47.2 | 58.0 | 45.5 | 12.5 |
| | 03.25-03.30 | 50.3 | 46.5 | 51.0 | 44.5 | 6.5 |
| | 03.30-03.35 | 48.7 | 48.7 | 48.7 | 45.1 | 3.6 |
| | 03.35-03.40 | 50.0 | 52.2 | 50.0 | 48.2 | 1.8 |
| | 03.40-03.45 | 49.6 | 54.2 | 49.6 | 50.2 | -0.6 |
| | 03.45-03.50 | 49.2 | 53.8 | 49.2 | 49.1 | 0.1 |
| | 03.50-03.55 | 48.2 | 54.0 | 48.2 | 49.9 | -1.7 |
| | 03.55-04.00 | 48.2 | 54.0 | 48.2 | 49.6 | -1.4 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(10/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 48.3 | 54.3 | 48.3 | 50.2 | -1.9 |
| | 04.05-04.10 | 49.2 | 53.9 | 49.2 | 49.4 | -0.2 |
| | 04.10-04.15 | 49.0 | 53.9 | 49.0 | 49.9 | -0.9 |
| | 04.15-04.20 | 49.0 | 54.0 | 49.0 | 50.1 | -1.1 |
| | 04.20-04.25 | 48.9 | 53.6 | 48.9 | 49.7 | -0.8 |
| | 04.25-04.30 | 48.8 | 53.8 | 48.8 | 49.5 | -0.7 |
| | 04.30-04.35 | 49.0 | 53.8 | 49.0 | 49.7 | -0.7 |
| | 04.35-04.40 | 48.3 | 53.4 | 48.3 | 48.1 | 0.2 |
| | 04.40-04.45 | 47.8 | 51.9 | 47.8 | 45.7 | 2.1 |
| | 04.45-04.50 | 47.9 | 45.4 | 47.3 | 44.0 | 3.3 |
| 15. | 04.50-04.55 | 47.8 | 45.4 | 47.1 | 43.6 | 3.5 |
| | 04.55-05.00 | 48.1 | 45.7 | 47.4 | 44.6 | 2.8 |
| | 05.00-05.05 | 48.1 | 45.5 | 47.6 | 44.4 | 3.2 |
| | 05.05-05.10 | 56.1 | 46.3 | 58.6 | 44.8 | 13.8 |
| | 05.10-05.15 | 48.5 | 46.1 | 47.8 | 44.6 | 3.2 |
| | 05.15-05.20 | 48.2 | 46.0 | 47.2 | 44.8 | 2.4 |
| | 05.20-05.25 | 47.8 | 46.1 | 45.9 | 44.0 | 1.9 |
| | 05.25-05.30 | 47.3 | 46.6 | 42.0 | 44.2 | -2.2 |
| | 05.30-05.35 | 46.5 | 46.0 | 39.9 | 44.8 | -4.9 |
| | 05.35-05.40 | 46.9 | 46.6 | 38.1 | 45.0 | -6.9 |
| 16. | 05.40-05.45 | 46.8 | 47.0 | 46.8 | 45.8 | 1.0 |
| | 05.45-05.50 | 48.5 | 47.0 | 46.2 | 45.8 | 0.4 |
| | 05.50-05.55 | 47.1 | 47.6 | 47.1 | 46.5 | 0.6 |
| | 05.55-06.00 | 47.4 | 47.2 | 36.9 | 46.1 | -9.2 |
| | 06.00-07.00 | 46.7 | 53.2 | 46.7 | 39.0 | 7.7 |
| | 07.00-08.00 | 50.2 | 48.9 | 44.3 | 45.2 | -0.9 |
| | 08.00-09.00 | 46.7 | 49.7 | 46.7 | 45.6 | 1.1 |
| | 09.00-10.00 | 49.7 | 50.4 | 49.7 | 45.8 | 3.9 |
| | 10.00-11.00 | 53.2 | 52.3 | 45.9 | 48.4 | -2.5 |
| | 11.00-12.00 | 58.0 | 53.0 | 56.3 | 49.0 | 7.3 |
| 22. | 12.00-13.00 | 57.7 | 56.2 | 52.4 | 42.4 | 10.0 |
| 23. | 13.00-14.00 | 52.0 | 55.0 | 52.0 | 41.7 | 10.3 |
| 24. | 14.00-15.00 | 56.0 | 54.0 | 51.7 | 41.7 | 10.0 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/11-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(11/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 56.6 | 56.4 | 43.1 | 44.3 | -1.2 |
| 2. | 16.00-17.00 | 55.4 | 50.3 | 53.8 | 39.6 | 14.2 |
| 3. | 17.00-18.00 | 52.4 | 50.6 | 47.7 | 38.5 | 9.2 |
| 4. | 18.00-19.00 | 51.9 | 50.6 | 46.0 | 44.6 | 1.4 |
| 5. | 19.00-20.00 | 54.7 | 53.6 | 48.2 | 42.3 | 5.9 |
| 6. | 20.00-21.00 | 50.7 | 50.8 | 50.7 | 40.6 | 10.1 |
| 7. | 21.00-22.00 | 51.0 | 54.4 | 51.0 | 39.3 | 11.7 |
| 8. | 22.00-22.05 | 50.9 | 57.1 | 50.9 | 40.5 | 10.4 |
| | 22.05-22.10 | 52.8 | 51.0 | 51.1 | 38.5 | 12.6 |
| | 22.10-22.15 | 54.3 | 48.2 | 56.1 | 38.8 | 17.3 |
| | 22.15-22.20 | 51.8 | 55.1 | 51.8 | 40.1 | 11.7 |
| | 22.20-22.25 | 54.8 | 51.1 | 55.4 | 39.8 | 15.6 |
| | 22.25-22.30 | 55.0 | 58.8 | 55.0 | 39.8 | 15.2 |
| | 22.30-22.35 | 55.7 | 54.7 | 51.8 | 38.9 | 12.9 |
| | 22.35-22.40 | 54.9 | 43.9 | 57.5 | 39.2 | 18.3 |
| | 22.40-22.45 | 57.9 | 42.2 | 60.8 | 37.9 | 22.9 |
| | 22.45-22.50 | 52.5 | 51.6 | 48.2 | 38.8 | 9.4 |
| | 22.50-22.55 | 57.6 | 49.9 | 59.8 | 38.2 | 21.6 |
| | 22.55-23.00 | 50.5 | 42.1 | 52.8 | 39.0 | 13.8 |
| 9. | 23.00-23.05 | 50.7 | 41.8 | 53.1 | 38.3 | 14.8 |
| | 23.05-23.10 | 51.9 | 42.2 | 54.4 | 37.5 | 16.9 |
| | 23.10-23.15 | 53.6 | 43.1 | 56.2 | 38.2 | 18.0 |
| | 23.15-23.20 | 50.4 | 42.4 | 52.7 | 37.8 | 14.9 |
| | 23.20-23.25 | 53.5 | 41.6 | 56.2 | 38.9 | 17.3 |
| | 23.25-23.30 | 56.1 | 43.1 | 58.9 | 37.5 | 21.4 |
| | 23.30-23.35 | 52.4 | 41.2 | 55.1 | 37.6 | 17.5 |
| | 23.35-23.40 | 54.3 | 43.2 | 56.9 | 41.1 | 15.8 |
| | 23.40-23.45 | 52.5 | 49.1 | 52.8 | 44.0 | 8.8 |
| | 23.45-23.50 | 51.9 | 52.5 | 51.9 | 51.0 | 0.9 |
| | 23.50-23.55 | 52.9 | 50.7 | 51.9 | 49.1 | 2.8 |
| | 23.55-00.00 | 50.2 | 52.5 | 50.2 | 50.4 | -0.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(11/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 51.0 | 52.7 | 51.0 | 51.5 | -0.5 |
| | 00.05-00.10 | 51.7 | 53.1 | 51.7 | 51.7 | 0.0 |
| | 00.10-00.15 | 52.0 | 51.8 | 41.5 | 50.0 | -8.5 |
| | 00.15-00.20 | 49.9 | 52.2 | 49.9 | 50.1 | -0.2 |
| | 00.20-00.25 | 50.4 | 52.4 | 50.4 | 50.4 | 0.0 |
| | 00.25-00.30 | 50.1 | 50.2 | 50.1 | 48.5 | 1.6 |
| | 00.30-00.35 | 50.0 | 50.0 | 50.0 | 48.6 | 1.4 |
| | 00.35-00.40 | 56.5 | 50.4 | 58.3 | 49.0 | 9.3 |
| | 00.40-00.45 | 49.8 | 52.4 | 49.8 | 50.0 | -0.2 |
| | 00.45-00.50 | 49.8 | 50.6 | 49.8 | 48.8 | 1.0 |
| 11. | 00.50-00.55 | 48.7 | 49.8 | 48.7 | 48.8 | -0.1 |
| | 00.55-01.00 | 48.7 | 49.1 | 48.7 | 48.2 | 0.5 |
| | 01.00-01.05 | 50.6 | 49.0 | 48.5 | 47.9 | 0.6 |
| | 01.05-01.10 | 49.7 | 50.0 | 49.7 | 49.1 | 0.6 |
| | 01.10-01.15 | 49.7 | 51.3 | 49.7 | 49.7 | 0.0 |
| | 01.15-01.20 | 49.3 | 57.9 | 49.3 | 48.8 | 0.5 |
| | 01.20-01.25 | 48.3 | 48.9 | 48.3 | 48.0 | 0.3 |
| | 01.25-01.30 | 49.3 | 49.5 | 49.3 | 48.2 | 1.1 |
| | 01.30-01.35 | 48.8 | 48.8 | 48.8 | 48.0 | 0.8 |
| | 01.35-01.40 | 49.0 | 49.0 | 49.0 | 47.7 | 1.3 |
| 12. | 01.40-01.45 | 48.7 | 48.1 | 42.8 | 47.2 | -4.4 |
| | 01.45-01.50 | 48.1 | 48.0 | 34.7 | 46.8 | -12.1 |
| | 01.50-01.55 | 49.0 | 48.1 | 44.7 | 46.9 | -2.2 |
| | 01.55-02.00 | 48.8 | 48.6 | 38.3 | 47.2 | -8.9 |
| | 02.00-02.05 | 49.4 | 48.9 | 42.8 | 47.8 | -5.0 |
| | 02.05-02.10 | 48.0 | 49.6 | 48.0 | 48.1 | -0.1 |
| | 02.10-02.15 | 51.3 | 50.5 | 46.6 | 49.5 | -2.9 |
| | 02.15-02.20 | 48.6 | 47.3 | 45.7 | 41.8 | 3.9 |
| | 02.20-02.25 | 49.0 | 49.3 | 49.0 | 46.4 | 2.6 |
| | 02.25-02.30 | 48.5 | 47.8 | 43.2 | 44.5 | -1.3 |
| 13. | 02.30-02.35 | 51.4 | 46.9 | 52.5 | 44.5 | 8.0 |
| | 02.35-02.40 | 49.8 | 48.3 | 47.5 | 46.3 | 1.2 |
| | 02.40-02.45 | 49.7 | 49.1 | 43.8 | 47.6 | -3.8 |
| | 02.45-02.50 | 51.4 | 48.9 | 50.8 | 47.5 | 3.3 |
| | 02.50-02.55 | 50.8 | 49.3 | 48.5 | 48.0 | 0.5 |
| | 02.55-03.00 | 48.2 | 49.0 | 48.2 | 47.5 | 0.7 |
| | 03.00-03.05 | 50.5 | 49.3 | 47.3 | 46.9 | 0.4 |
| | 03.05-03.10 | 49.0 | 49.3 | 49.0 | 47.7 | 1.3 |
| | 03.10-03.15 | 51.4 | 49.2 | 50.4 | 47.9 | 2.5 |
| | 03.15-03.20 | 50.5 | 47.3 | 50.7 | 45.3 | 5.4 |
| | 03.20-03.25 | 51.7 | 47.2 | 52.8 | 45.5 | 7.3 |
| | 03.25-03.30 | 52.4 | 46.5 | 54.1 | 44.5 | 9.6 |
| | 03.30-03.35 | 52.1 | 48.7 | 52.4 | 45.1 | 7.3 |
| | 03.35-03.40 | 54.6 | 52.2 | 53.9 | 48.2 | 5.7 |
| | 03.40-03.45 | 55.6 | 54.2 | 53.0 | 50.2 | 2.8 |
| | 03.45-03.50 | 53.8 | 53.8 | 53.8 | 49.1 | 4.7 |
| | 03.50-03.55 | 50.5 | 54.0 | 50.5 | 49.9 | 0.6 |
| | 03.55-04.00 | 48.6 | 54.0 | 48.6 | 49.6 | -1.0 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(11/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 49.9 | 54.3 | 49.9 | 50.2 | -0.3 |
| | 04.05-04.10 | 49.1 | 53.9 | 49.1 | 49.4 | -0.3 |
| | 04.10-04.15 | 49.2 | 53.9 | 49.2 | 49.9 | -0.7 |
| | 04.15-04.20 | 49.8 | 54.0 | 49.8 | 50.1 | -0.3 |
| | 04.20-04.25 | 49.3 | 53.6 | 49.3 | 49.7 | -0.4 |
| | 04.25-04.30 | 50.1 | 53.8 | 50.1 | 49.5 | 0.6 |
| | 04.30-04.35 | 49.4 | 53.8 | 49.4 | 49.7 | -0.3 |
| | 04.35-04.40 | 50.9 | 53.4 | 50.9 | 48.1 | 2.8 |
| | 04.40-04.45 | 49.3 | 51.9 | 49.3 | 45.7 | 3.6 |
| | 04.45-04.50 | 49.2 | 45.4 | 49.9 | 44.0 | 5.9 |
| | 04.50-04.55 | 48.7 | 45.4 | 49.0 | 43.6 | 5.4 |
| | 04.55-05.00 | 49.3 | 45.7 | 49.8 | 44.6 | 5.2 |
| 15. | 05.00-05.05 | 48.9 | 45.5 | 49.2 | 44.4 | 4.8 |
| | 05.05-05.10 | 52.5 | 46.3 | 54.3 | 44.8 | 9.5 |
| | 05.10-05.15 | 50.7 | 46.1 | 51.9 | 44.6 | 7.3 |
| | 05.15-05.20 | 49.7 | 46.0 | 50.3 | 44.8 | 5.5 |
| | 05.20-05.25 | 49.3 | 46.1 | 49.5 | 44.0 | 5.5 |
| | 05.25-05.30 | 49.0 | 46.6 | 48.3 | 44.2 | 4.1 |
| | 05.30-05.35 | 51.1 | 46.0 | 52.5 | 44.8 | 7.7 |
| | 05.35-05.40 | 49.5 | 46.6 | 49.4 | 45.0 | 4.4 |
| | 05.40-05.45 | 52.9 | 47.0 | 54.6 | 45.8 | 8.8 |
| | 05.45-05.50 | 53.8 | 47.0 | 55.8 | 45.8 | 10.0 |
| | 05.50-05.55 | 49.2 | 47.6 | 47.1 | 46.5 | 0.6 |
| | 05.55-06.00 | 51.6 | 47.2 | 52.6 | 46.1 | 6.5 |
| 16. | 06.00-07.00 | 53.3 | 53.2 | 36.9 | 39.0 | -2.1 |
| 17. | 07.00-08.00 | 52.6 | 48.9 | 50.2 | 45.2 | 5.0 |
| 18. | 08.00-09.00 | 58.6 | 49.7 | 58.0 | 45.6 | 12.4 |
| 19. | 09.00-10.00 | 57.7 | 50.4 | 56.8 | 45.8 | 11.0 |
| 20. | 10.00-11.00 | 53.6 | 52.3 | 47.7 | 48.4 | -0.7 |
| 21. | 11.00-12.00 | 53.0 | 53.0 | 53.0 | 49.0 | 4.0 |
| 22. | 12.00-13.00 | 57.1 | 56.2 | 49.8 | 42.4 | 7.4 |
| 23. | 13.00-14.00 | 53.9 | 55.0 | 53.9 | 41.7 | 12.2 |
| 24. | 14.00-15.00 | 56.9 | 54.0 | 53.8 | 41.7 | 12.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/12-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(12/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 54.3 | 56.4 | 54.3 | 44.3 | 10.0 |
| 2. | 16.00-17.00 | 52.0 | 50.3 | 47.1 | 39.6 | 7.5 |
| 3. | 17.00-18.00 | 53.4 | 50.6 | 50.2 | 38.5 | 11.7 |
| 4. | 18.00-19.00 | 50.9 | 50.6 | 39.1 | 44.6 | -5.5 |
| 5. | 19.00-20.00 | 49.4 | 53.6 | 49.4 | 42.3 | 7.1 |
| 6. | 20.00-21.00 | 50.7 | 50.8 | 50.7 | 40.6 | 10.1 |
| 7. | 21.00-22.00 | 50.4 | 54.4 | 50.4 | 39.3 | 11.1 |
| 8. | 22.00-22.05 | 49.1 | 57.1 | 49.1 | 40.5 | 8.6 |
| | 22.05-22.10 | 49.5 | 51.0 | 49.5 | 38.5 | 11.0 |
| | 22.10-22.15 | 50.1 | 48.2 | 48.6 | 38.8 | 9.8 |
| | 22.15-22.20 | 49.2 | 55.1 | 49.2 | 40.1 | 9.1 |
| | 22.20-22.25 | 50.2 | 51.1 | 50.2 | 39.8 | 10.4 |
| | 22.25-22.30 | 50.1 | 58.8 | 50.1 | 39.8 | 10.3 |
| | 22.30-22.35 | 49.5 | 54.7 | 49.5 | 38.9 | 10.6 |
| | 22.35-22.40 | 50.1 | 43.9 | 51.9 | 39.2 | 12.7 |
| | 22.40-22.45 | 48.7 | 42.2 | 50.6 | 37.9 | 12.7 |
| | 22.45-22.50 | 47.7 | 51.6 | 47.7 | 38.8 | 8.9 |
| | 22.50-22.55 | 47.9 | 49.9 | 47.9 | 38.2 | 9.7 |
| | 22.55-23.00 | 47.8 | 42.1 | 49.4 | 39.0 | 10.4 |
| 9. | 23.00-23.05 | 47.8 | 41.8 | 49.5 | 38.3 | 11.2 |
| | 23.05-23.10 | 48.1 | 42.2 | 49.8 | 37.5 | 12.3 |
| | 23.10-23.15 | 47.8 | 43.1 | 49.0 | 38.2 | 10.8 |
| | 23.15-23.20 | 48.4 | 42.4 | 50.1 | 37.8 | 12.3 |
| | 23.20-23.25 | 49.8 | 41.6 | 52.1 | 38.9 | 13.2 |
| | 23.25-23.30 | 49.4 | 43.1 | 51.2 | 37.5 | 13.7 |
| | 23.30-23.35 | 47.7 | 41.2 | 49.6 | 37.6 | 12.0 |
| | 23.35-23.40 | 48.5 | 43.2 | 50.0 | 41.1 | 8.9 |
| | 23.40-23.45 | 48.5 | 49.1 | 48.5 | 44.0 | 4.5 |
| | 23.45-23.50 | 48.6 | 52.5 | 48.6 | 51.0 | -2.4 |
| | 23.50-23.55 | 48.9 | 50.7 | 48.9 | 49.1 | -0.2 |
| | 23.55-00.00 | 50.5 | 52.5 | 50.5 | 50.4 | 0.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(12/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 51.6 | 52.7 | 51.6 | 51.5 | 0.1 |
| | 00.05-00.10 | 51.8 | 53.1 | 51.8 | 51.7 | 0.1 |
| | 00.10-00.15 | 51.1 | 51.8 | 51.1 | 50.0 | 1.1 |
| | 00.15-00.20 | 51.6 | 52.2 | 51.6 | 50.1 | 1.5 |
| | 00.20-00.25 | 51.3 | 52.4 | 51.3 | 50.4 | 0.9 |
| | 00.25-00.30 | 50.2 | 50.2 | 50.2 | 48.5 | 1.7 |
| | 00.30-00.35 | 51.5 | 50.0 | 49.2 | 48.6 | 0.6 |
| | 00.35-00.40 | 51.4 | 50.4 | 47.5 | 49.0 | -1.5 |
| | 00.40-00.45 | 52.1 | 52.4 | 52.1 | 50.0 | 2.1 |
| | 00.45-00.50 | 51.6 | 50.6 | 47.7 | 48.8 | -1.1 |
| 11. | 00.50-00.55 | 51.0 | 49.8 | 47.8 | 48.8 | -1.0 |
| | 00.55-01.00 | 55.3 | 49.1 | 57.1 | 48.2 | 8.9 |
| | 01.00-01.05 | 56.6 | 49.0 | 58.8 | 47.9 | 10.9 |
| | 01.05-01.10 | 57.5 | 50.0 | 59.6 | 49.1 | 10.5 |
| | 01.10-01.15 | 52.7 | 51.3 | 50.1 | 49.7 | 0.4 |
| | 01.15-01.20 | 52.1 | 57.9 | 52.1 | 48.8 | 3.3 |
| | 01.20-01.25 | 50.7 | 48.9 | 49.0 | 48.0 | 1.0 |
| | 01.25-01.30 | 49.7 | 49.5 | 39.2 | 48.2 | -9.0 |
| | 01.30-01.35 | 49.3 | 48.8 | 42.7 | 48.0 | -5.3 |
| | 01.35-01.40 | 48.8 | 49.0 | 48.8 | 47.7 | 1.1 |
| 12. | 01.40-01.45 | 49.6 | 48.1 | 47.3 | 47.2 | 0.1 |
| | 01.45-01.50 | 49.9 | 48.0 | 48.4 | 46.8 | 1.6 |
| | 01.50-01.55 | 49.9 | 48.1 | 48.2 | 46.9 | 1.3 |
| | 01.55-02.00 | 56.6 | 48.6 | 58.9 | 47.2 | 11.7 |
| | 02.00-02.05 | 54.5 | 48.9 | 56.1 | 47.8 | 8.3 |
| | 02.05-02.10 | 48.7 | 49.6 | 48.7 | 48.1 | 0.6 |
| | 02.10-02.15 | 49.4 | 50.5 | 49.4 | 49.5 | -0.1 |
| | 02.15-02.20 | 49.1 | 47.3 | 47.4 | 41.8 | 5.6 |
| | 02.20-02.25 | 49.1 | 49.3 | 49.1 | 46.4 | 2.7 |
| | 02.25-02.30 | 49.8 | 47.8 | 48.5 | 44.5 | 4.0 |
| 13. | 02.30-02.35 | 49.6 | 46.9 | 49.3 | 44.5 | 4.8 |
| | 02.35-02.40 | 48.4 | 48.3 | 35.0 | 46.3 | -11.3 |
| | 02.40-02.45 | 51.1 | 49.1 | 49.8 | 47.6 | 2.2 |
| | 02.45-02.50 | 53.2 | 48.9 | 54.2 | 47.5 | 6.7 |
| | 02.50-02.55 | 50.1 | 49.3 | 45.4 | 48.0 | -2.6 |
| | 02.55-03.00 | 50.2 | 49.0 | 47.0 | 47.5 | -0.5 |
| | 03.00-03.05 | 48.8 | 49.3 | 48.8 | 46.9 | 1.9 |
| | 03.05-03.10 | 47.1 | 49.3 | 47.1 | 47.7 | -0.6 |
| | 03.10-03.15 | 48.5 | 49.2 | 48.5 | 47.9 | 0.6 |
| | 03.15-03.20 | 51.6 | 47.3 | 52.6 | 45.3 | 7.3 |
| | 03.20-03.25 | 57.3 | 47.2 | 59.9 | 45.5 | 14.4 |
| | 03.25-03.30 | 54.2 | 46.5 | 56.4 | 44.5 | 11.9 |
| | 03.30-03.35 | 54.0 | 48.7 | 55.5 | 45.1 | 10.4 |
| | 03.35-03.40 | 53.1 | 52.2 | 48.8 | 48.2 | 0.6 |
| | 03.40-03.45 | 51.1 | 54.2 | 51.1 | 50.2 | 0.9 |
| | 03.45-03.50 | 50.1 | 53.8 | 50.1 | 49.1 | 1.0 |
| | 03.50-03.55 | 50.1 | 54.0 | 50.1 | 49.9 | 0.2 |
| | 03.55-04.00 | 56.4 | 54.0 | 55.7 | 49.6 | 6.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(12/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 50.8 | 54.3 | 50.8 | 50.2 | 0.6 |
| | 04.05-04.10 | 56.5 | 53.9 | 56.0 | 49.4 | 6.6 |
| | 04.10-04.15 | 54.9 | 53.9 | 51.0 | 49.9 | 1.1 |
| | 04.15-04.20 | 55.8 | 54.0 | 54.1 | 50.1 | 4.0 |
| | 04.20-04.25 | 51.3 | 53.6 | 51.3 | 49.7 | 1.6 |
| | 04.25-04.30 | 49.6 | 53.8 | 49.6 | 49.5 | 0.1 |
| | 04.30-04.35 | 49.7 | 53.8 | 49.7 | 49.7 | 0.0 |
| | 04.35-04.40 | 52.9 | 53.4 | 52.9 | 48.1 | 4.8 |
| | 04.40-04.45 | 54.9 | 51.9 | 54.9 | 45.7 | 9.2 |
| | 04.45-04.50 | 54.1 | 45.4 | 56.5 | 44.0 | 12.5 |
| | 04.50-04.55 | 57.0 | 45.4 | 59.7 | 43.6 | 16.1 |
| 15. | 04.55-05.00 | 57.5 | 45.7 | 60.2 | 44.6 | 15.6 |
| | 05.00-05.05 | 57.1 | 45.5 | 59.8 | 44.4 | 15.4 |
| | 05.05-05.10 | 58.6 | 46.3 | 61.3 | 44.8 | 16.5 |
| | 05.10-05.15 | 58.3 | 46.1 | 61.0 | 44.6 | 16.4 |
| | 05.15-05.20 | 55.4 | 46.0 | 57.9 | 44.8 | 13.1 |
| | 05.20-05.25 | 53.4 | 46.1 | 55.5 | 44.0 | 11.5 |
| | 05.25-05.30 | 54.1 | 46.6 | 56.2 | 44.2 | 12.0 |
| | 05.30-05.35 | 54.3 | 46.0 | 56.6 | 44.8 | 11.8 |
| | 05.35-05.40 | 53.1 | 46.6 | 55.0 | 45.0 | 10.0 |
| | 05.40-05.45 | 55.2 | 47.0 | 57.5 | 45.8 | 11.7 |
| | 05.45-05.50 | 52.9 | 47.0 | 54.6 | 45.8 | 8.8 |
| 16. | 05.50-05.55 | 54.3 | 47.6 | 56.3 | 46.5 | 9.8 |
| | 05.55-06.00 | 49.8 | 47.2 | 49.3 | 46.1 | 3.2 |
| | 06.00-07.00 | 53.8 | 53.2 | 44.9 | 39.0 | 5.9 |
| | 07.00-08.00 | 56.2 | 48.9 | 55.3 | 45.2 | 10.1 |
| | 08.00-09.00 | 55.7 | 49.7 | 54.4 | 45.6 | 8.8 |
| | 09.00-10.00 | 56.8 | 50.4 | 55.7 | 45.8 | 9.9 |
| | 10.00-11.00 | 55.8 | 52.3 | 53.2 | 48.4 | 4.8 |
| | 11.00-12.00 | 53.3 | 53.0 | 41.5 | 49.0 | -7.5 |
| | 12.00-13.00 | 49.6 | 56.2 | 49.6 | 42.4 | 7.2 |
| | 13.00-14.00 | 47.8 | 55.0 | 47.8 | 41.7 | 6.1 |
| | 14.00-15.00 | 53.7 | 54.0 | 53.7 | 41.7 | 12.0 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/13-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(13/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 49.3 | 56.4 | 49.3 | 44.3 | 5.0 |
| 2. | 16.00-17.00 | 54.2 | 50.3 | 51.9 | 39.6 | 12.3 |
| 3. | 17.00-18.00 | 50.6 | 50.6 | 50.6 | 38.5 | 12.1 |
| 4. | 18.00-19.00 | 52.3 | 50.6 | 47.4 | 44.6 | 2.8 |
| 5. | 19.00-20.00 | 47.9 | 53.6 | 47.9 | 42.3 | 5.6 |
| 6. | 20.00-21.00 | 50.9 | 50.8 | 34.5 | 40.6 | -6.1 |
| 7. | 21.00-22.00 | 49.6 | 54.4 | 49.6 | 39.3 | 10.3 |
| 8. | 22.00-22.05 | 48.6 | 57.1 | 48.6 | 40.5 | 8.1 |
| | 22.05-22.10 | 49.2 | 51.0 | 49.2 | 38.5 | 10.7 |
| | 22.10-22.15 | 49.1 | 48.2 | 44.8 | 38.8 | 6.0 |
| | 22.15-22.20 | 48.9 | 55.1 | 48.9 | 40.1 | 8.8 |
| | 22.20-22.25 | 49.7 | 51.1 | 49.7 | 39.8 | 9.9 |
| | 22.25-22.30 | 50.9 | 58.8 | 50.9 | 39.8 | 11.1 |
| | 22.30-22.35 | 52.1 | 54.7 | 52.1 | 38.9 | 13.2 |
| | 22.35-22.40 | 52.2 | 43.9 | 54.5 | 39.2 | 15.3 |
| | 22.40-22.45 | 53.0 | 42.2 | 55.6 | 37.9 | 17.7 |
| | 22.45-22.50 | 53.2 | 51.6 | 51.1 | 38.8 | 12.3 |
| | 22.50-22.55 | 52.1 | 49.9 | 51.1 | 38.2 | 12.9 |
| | 22.55-23.00 | 48.6 | 42.1 | 50.5 | 39.0 | 11.5 |
| | 23.00-23.05 | 51.1 | 41.8 | 53.6 | 38.3 | 15.3 |
| | 23.05-23.10 | 52.5 | 42.2 | 55.1 | 37.5 | 17.6 |
| | 23.10-23.15 | 50.6 | 43.1 | 52.7 | 38.2 | 14.5 |
| | 23.15-23.20 | 52.8 | 42.4 | 55.4 | 37.8 | 17.6 |
| | 23.20-23.25 | 52.0 | 41.6 | 54.6 | 38.9 | 15.7 |
| | 23.25-23.30 | 53.2 | 43.1 | 55.8 | 37.5 | 18.3 |
| | 23.30-23.35 | 52.7 | 41.2 | 55.4 | 37.6 | 17.8 |
| | 23.35-23.40 | 52.8 | 43.2 | 55.3 | 41.1 | 14.2 |
| | 23.40-23.45 | 53.0 | 49.1 | 53.7 | 44.0 | 9.7 |
| | 23.45-23.50 | 54.2 | 52.5 | 52.3 | 51.0 | 1.3 |
| | 23.50-23.55 | 54.3 | 50.7 | 54.8 | 49.1 | 5.7 |
| | 23.55-00.00 | 53.3 | 52.5 | 48.6 | 50.4 | -1.8 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(13/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 54.1 | 52.7 | 51.5 | 51.5 | 0.0 |
| | 00.05-00.10 | 55.1 | 53.1 | 53.8 | 51.7 | 2.1 |
| | 00.10-00.15 | 54.7 | 51.8 | 54.6 | 50.0 | 4.6 |
| | 00.15-00.20 | 54.9 | 52.2 | 54.6 | 50.1 | 4.5 |
| | 00.20-00.25 | 54.4 | 52.4 | 53.1 | 50.4 | 2.7 |
| | 00.25-00.30 | 53.6 | 50.2 | 53.9 | 48.5 | 5.4 |
| | 00.30-00.35 | 52.9 | 50.0 | 52.8 | 48.6 | 4.2 |
| | 00.35-00.40 | 53.7 | 50.4 | 54.0 | 49.0 | 5.0 |
| | 00.40-00.45 | 52.7 | 52.4 | 43.9 | 50.0 | -6.1 |
| | 00.45-00.50 | 53.2 | 50.6 | 52.7 | 48.8 | 3.9 |
| 11. | 00.50-00.55 | 54.2 | 49.8 | 55.2 | 48.8 | 6.4 |
| | 00.55-01.00 | 53.0 | 49.1 | 53.7 | 48.2 | 5.5 |
| | 01.00-01.05 | 52.9 | 49.0 | 53.6 | 47.9 | 5.7 |
| | 01.05-01.10 | 53.3 | 50.0 | 53.6 | 49.1 | 4.5 |
| | 01.10-01.15 | 52.6 | 51.3 | 49.7 | 49.7 | 0.0 |
| | 01.15-01.20 | 52.9 | 57.9 | 52.9 | 48.8 | 4.1 |
| | 01.20-01.25 | 52.5 | 48.9 | 53.0 | 48.0 | 5.0 |
| | 01.25-01.30 | 52.0 | 49.5 | 51.4 | 48.2 | 3.2 |
| | 01.30-01.35 | 51.8 | 48.8 | 51.8 | 48.0 | 3.8 |
| | 01.35-01.40 | 50.3 | 49.0 | 47.4 | 47.7 | -0.3 |
| 12. | 01.40-01.45 | 51.1 | 48.1 | 51.1 | 47.2 | 3.9 |
| | 01.45-01.50 | 50.6 | 48.0 | 50.1 | 46.8 | 3.3 |
| | 01.50-01.55 | 49.7 | 48.1 | 47.6 | 46.9 | 0.7 |
| | 01.55-02.00 | 50.3 | 48.6 | 48.4 | 47.2 | 1.2 |
| | 02.00-02.05 | 50.2 | 48.9 | 47.3 | 47.8 | -0.5 |
| | 02.05-02.10 | 51.1 | 49.6 | 48.8 | 48.1 | 0.7 |
| | 02.10-02.15 | 51.0 | 50.5 | 44.4 | 49.5 | -5.1 |
| | 02.15-02.20 | 48.1 | 47.3 | 43.4 | 41.8 | 1.6 |
| | 02.20-02.25 | 48.9 | 49.3 | 48.9 | 46.4 | 2.5 |
| | 02.25-02.30 | 49.0 | 47.8 | 45.8 | 44.5 | 1.3 |
| 13. | 02.30-02.35 | 48.6 | 46.9 | 46.7 | 44.5 | 2.2 |
| | 02.35-02.40 | 48.0 | 48.3 | 48.0 | 46.3 | 1.7 |
| | 02.40-02.45 | 48.0 | 49.1 | 48.0 | 47.6 | 0.4 |
| | 02.45-02.50 | 48.7 | 48.9 | 48.7 | 47.5 | 1.2 |
| | 02.50-02.55 | 56.0 | 49.3 | 58.0 | 48.0 | 10.0 |
| | 02.55-03.00 | 52.6 | 49.0 | 53.1 | 47.5 | 5.6 |
| | 03.00-03.05 | 47.2 | 49.3 | 47.2 | 46.9 | 0.3 |
| | 03.05-03.10 | 46.9 | 49.3 | 46.9 | 47.7 | -0.8 |
| | 03.10-03.15 | 47.4 | 49.2 | 47.4 | 47.9 | -0.5 |
| | 03.15-03.20 | 55.0 | 47.3 | 57.2 | 45.3 | 11.9 |
| | 03.20-03.25 | 47.0 | 47.2 | 47.0 | 45.5 | 1.5 |
| | 03.25-03.30 | 50.7 | 46.5 | 51.6 | 44.5 | 7.1 |
| | 03.30-03.35 | 47.1 | 48.7 | 47.1 | 45.1 | 2.0 |
| | 03.35-03.40 | 47.2 | 52.2 | 47.2 | 48.2 | -1.0 |
| | 03.40-03.45 | 50.3 | 54.2 | 50.3 | 50.2 | 0.1 |
| | 03.45-03.50 | 57.7 | 53.8 | 58.4 | 49.1 | 9.3 |
| | 03.50-03.55 | 51.4 | 54.0 | 51.4 | 49.9 | 1.5 |
| | 03.55-04.00 | 48.0 | 54.0 | 48.0 | 49.6 | -1.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(13/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 51.5 | 54.3 | 51.5 | 50.2 | 1.3 |
| | 04.05-04.10 | 57.0 | 53.9 | 57.1 | 49.4 | 7.7 |
| | 04.10-04.15 | 51.1 | 53.9 | 51.1 | 49.9 | 1.2 |
| | 04.15-04.20 | 57.2 | 54.0 | 57.4 | 50.1 | 7.3 |
| | 04.20-04.25 | 56.6 | 53.6 | 56.6 | 49.7 | 6.9 |
| | 04.25-04.30 | 57.7 | 53.8 | 58.4 | 49.5 | 8.9 |
| | 04.30-04.35 | 55.4 | 53.8 | 53.3 | 49.7 | 3.6 |
| | 04.35-04.40 | 51.9 | 53.4 | 51.9 | 48.1 | 3.8 |
| | 04.40-04.45 | 53.7 | 51.9 | 52.0 | 45.7 | 6.3 |
| | 04.45-04.50 | 53.3 | 45.4 | 55.5 | 44.0 | 11.5 |
| 15. | 04.50-04.55 | 50.2 | 45.4 | 51.5 | 43.6 | 7.9 |
| | 04.55-05.00 | 52.4 | 45.7 | 54.4 | 44.6 | 9.8 |
| | 05.00-05.05 | 53.7 | 45.5 | 56.0 | 44.4 | 11.6 |
| | 05.05-05.10 | 52.4 | 46.3 | 54.2 | 44.8 | 9.4 |
| | 05.10-05.15 | 51.4 | 46.1 | 52.9 | 44.6 | 8.3 |
| | 05.15-05.20 | 49.8 | 46.0 | 50.5 | 44.8 | 5.7 |
| | 05.20-05.25 | 47.6 | 46.1 | 45.3 | 44.0 | 1.3 |
| | 05.25-05.30 | 49.9 | 46.6 | 50.2 | 44.2 | 6.0 |
| | 05.30-05.35 | 49.7 | 46.0 | 50.3 | 44.8 | 5.5 |
| | 05.35-05.40 | 51.0 | 46.6 | 52.0 | 45.0 | 7.0 |
| 16. | 05.40-05.45 | 56.5 | 47.0 | 59.0 | 45.8 | 13.2 |
| | 05.45-05.50 | 58.9 | 47.0 | 61.6 | 45.8 | 15.8 |
| | 05.50-05.55 | 58.1 | 47.6 | 60.7 | 46.5 | 14.2 |
| | 05.55-06.00 | 53.1 | 47.2 | 54.8 | 46.1 | 8.7 |
| | 06.00-07.00 | 55.0 | 53.2 | 50.3 | 39.0 | 11.3 |
| | 07.00-08.00 | 56.4 | 48.9 | 55.5 | 45.2 | 10.3 |
| | 08.00-09.00 | 54.5 | 49.7 | 52.8 | 45.6 | 7.2 |
| | 09.00-10.00 | 51.1 | 50.4 | 42.8 | 45.8 | -3.0 |
| | 10.00-11.00 | 54.5 | 52.3 | 50.5 | 48.4 | 2.1 |
| | 11.00-12.00 | 54.7 | 53.0 | 49.8 | 49.0 | 0.8 |
| 22. | 12.00-13.00 | 50.5 | 56.2 | 50.5 | 42.4 | 8.1 |
| 23. | 13.00-14.00 | 50.8 | 55.0 | 50.8 | 41.7 | 9.1 |
| 24. | 14.00-15.00 | 53.7 | 54.0 | 53.7 | 41.7 | 12.0 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/14-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(14/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 52.5 | 56.4 | 52.5 | 44.3 | 8.2 |
| 2. | 16.00-17.00 | 54.1 | 50.3 | 51.8 | 39.6 | 12.2 |
| 3. | 17.00-18.00 | 52.3 | 50.6 | 47.4 | 38.5 | 8.9 |
| 4. | 18.00-19.00 | 51.7 | 50.6 | 45.2 | 44.6 | 0.6 |
| 5. | 19.00-20.00 | 51.0 | 53.6 | 51.0 | 42.3 | 8.7 |
| 6. | 20.00-21.00 | 51.1 | 50.8 | 39.3 | 40.6 | -1.3 |
| 7. | 21.00-22.00 | 50.6 | 54.4 | 50.6 | 39.3 | 11.3 |
| 8. | 22.00-22.05 | 48.0 | 57.1 | 48.0 | 40.5 | 7.5 |
| | 22.05-22.10 | 49.0 | 51.0 | 49.0 | 38.5 | 10.5 |
| | 22.10-22.15 | 48.5 | 48.2 | 39.7 | 38.8 | 0.9 |
| | 22.15-22.20 | 48.7 | 55.1 | 48.7 | 40.1 | 8.6 |
| | 22.20-22.25 | 48.4 | 51.1 | 48.4 | 39.8 | 8.6 |
| | 22.25-22.30 | 47.8 | 58.8 | 47.8 | 39.8 | 8.0 |
| | 22.30-22.35 | 48.7 | 54.7 | 48.7 | 38.9 | 9.8 |
| | 22.35-22.40 | 48.5 | 43.9 | 49.7 | 39.2 | 10.5 |
| | 22.40-22.45 | 49.1 | 42.2 | 51.1 | 37.9 | 13.2 |
| | 22.45-22.50 | 47.7 | 51.6 | 47.7 | 38.8 | 8.9 |
| | 22.50-22.55 | 51.0 | 49.9 | 47.5 | 38.2 | 9.3 |
| | 22.55-23.00 | 48.3 | 42.1 | 50.1 | 39.0 | 11.1 |
| 9. | 23.00-23.05 | 48.7 | 41.8 | 50.7 | 38.3 | 12.4 |
| | 23.05-23.10 | 48.2 | 42.2 | 49.9 | 37.5 | 12.4 |
| | 23.10-23.15 | 51.1 | 43.1 | 53.4 | 38.2 | 15.2 |
| | 23.15-23.20 | 49.5 | 42.4 | 51.6 | 37.8 | 13.8 |
| | 23.20-23.25 | 49.4 | 41.6 | 51.6 | 38.9 | 12.7 |
| | 23.25-23.30 | 51.1 | 43.1 | 53.4 | 37.5 | 15.9 |
| | 23.30-23.35 | 50.5 | 41.2 | 53.0 | 37.6 | 15.4 |
| | 23.35-23.40 | 47.9 | 43.2 | 49.1 | 41.1 | 8.0 |
| | 23.40-23.45 | 50.2 | 49.1 | 46.7 | 44.0 | 2.7 |
| | 23.45-23.50 | 48.7 | 52.5 | 48.7 | 51.0 | -2.3 |
| | 23.50-23.55 | 51.1 | 50.7 | 43.5 | 49.1 | -5.6 |
| | 23.55-00.00 | 50.2 | 52.5 | 50.2 | 50.4 | -0.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(14/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 51.4 | 52.7 | 51.4 | 51.5 | -0.1 |
| | 00.05-00.10 | 52.1 | 53.1 | 52.1 | 51.7 | 0.4 |
| | 00.10-00.15 | 51.8 | 51.8 | 51.8 | 50.0 | 1.8 |
| | 00.15-00.20 | 54.3 | 52.2 | 53.1 | 50.1 | 3.0 |
| | 00.20-00.25 | 55.3 | 52.4 | 55.2 | 50.4 | 4.8 |
| | 00.25-00.30 | 53.5 | 50.2 | 53.8 | 48.5 | 5.3 |
| | 00.30-00.35 | 50.2 | 50.0 | 39.7 | 48.6 | -8.9 |
| | 00.35-00.40 | 48.3 | 50.4 | 48.3 | 49.0 | -0.7 |
| | 00.40-00.45 | 49.6 | 52.4 | 49.6 | 50.0 | -0.4 |
| | 00.45-00.50 | 48.8 | 50.6 | 48.8 | 48.8 | 0.0 |
| | 00.50-00.55 | 48.9 | 49.8 | 48.9 | 48.8 | 0.1 |
| 11. | 00.55-01.00 | 49.5 | 49.1 | 41.9 | 48.2 | -6.3 |
| | 01.00-01.05 | 49.0 | 49.0 | 49.0 | 47.9 | 1.1 |
| | 01.05-01.10 | 49.8 | 50.0 | 49.8 | 49.1 | 0.7 |
| | 01.10-01.15 | 49.1 | 51.3 | 49.1 | 49.7 | -0.6 |
| | 01.15-01.20 | 50.6 | 57.9 | 50.6 | 48.8 | 1.8 |
| | 01.20-01.25 | 49.0 | 48.9 | 35.6 | 48.0 | -12.4 |
| | 01.25-01.30 | 48.9 | 49.5 | 48.9 | 48.2 | 0.7 |
| | 01.30-01.35 | 48.4 | 48.8 | 48.4 | 48.0 | 0.4 |
| | 01.35-01.40 | 49.0 | 49.0 | 49.0 | 47.7 | 1.3 |
| | 01.40-01.45 | 48.6 | 48.1 | 42.0 | 47.2 | -5.2 |
| | 01.45-01.50 | 52.2 | 48.0 | 53.1 | 46.8 | 6.3 |
| 12. | 01.50-01.55 | 50.4 | 48.1 | 49.5 | 46.9 | 2.6 |
| | 01.55-02.00 | 49.4 | 48.6 | 44.7 | 47.2 | -2.5 |
| | 02.00-02.05 | 49.0 | 48.9 | 35.6 | 47.8 | -12.2 |
| | 02.05-02.10 | 48.7 | 49.6 | 48.7 | 48.1 | 0.6 |
| | 02.10-02.15 | 50.8 | 50.5 | 42.0 | 49.5 | -7.5 |
| | 02.15-02.20 | 49.2 | 47.3 | 47.7 | 41.8 | 5.9 |
| | 02.20-02.25 | 52.6 | 49.3 | 52.9 | 46.4 | 6.5 |
| | 02.25-02.30 | 53.5 | 47.8 | 55.1 | 44.5 | 10.6 |
| | 02.30-02.35 | 48.9 | 46.9 | 47.6 | 44.5 | 3.1 |
| | 02.35-02.40 | 51.3 | 48.3 | 51.3 | 46.3 | 5.0 |
| | 02.40-02.45 | 53.7 | 49.1 | 54.9 | 47.6 | 7.3 |
| 13. | 02.45-02.50 | 56.4 | 48.9 | 58.5 | 47.5 | 11.0 |
| | 02.50-02.55 | 54.0 | 49.3 | 55.2 | 48.0 | 7.2 |
| | 02.55-03.00 | 51.7 | 49.0 | 51.4 | 47.5 | 3.9 |
| | 03.00-03.05 | 48.7 | 49.3 | 48.7 | 46.9 | 1.8 |
| | 03.05-03.10 | 49.7 | 49.3 | 42.1 | 47.7 | -5.6 |
| | 03.10-03.15 | 53.8 | 49.2 | 55.0 | 47.9 | 7.1 |
| | 03.15-03.20 | 54.4 | 47.3 | 56.5 | 45.3 | 11.2 |
| | 03.20-03.25 | 53.2 | 47.2 | 54.9 | 45.5 | 9.4 |
| | 03.25-03.30 | 53.6 | 46.5 | 55.7 | 44.5 | 11.2 |
| | 03.30-03.35 | 49.9 | 48.7 | 46.7 | 45.1 | 1.6 |
| | 03.35-03.40 | 50.0 | 52.2 | 50.0 | 48.2 | 1.8 |
| | 03.40-03.45 | 50.7 | 54.2 | 50.7 | 50.2 | 0.5 |
| | 03.45-03.50 | 49.7 | 53.8 | 49.7 | 49.1 | 0.6 |
| | 03.50-03.55 | 50.1 | 54.0 | 50.1 | 49.9 | 0.2 |
| | 03.55-04.00 | 54.3 | 54.0 | 45.5 | 49.6 | -4.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(14/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | บ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 50.9 | 54.3 | 50.9 | 50.2 | 0.7 |
| | 04.05-04.10 | 53.2 | 53.9 | 53.2 | 49.4 | 3.8 |
| | 04.10-04.15 | 50.0 | 53.9 | 50.0 | 49.9 | 0.1 |
| | 04.15-04.20 | 52.8 | 54.0 | 52.8 | 50.1 | 2.7 |
| | 04.20-04.25 | 53.2 | 53.6 | 53.2 | 49.7 | 3.5 |
| | 04.25-04.30 | 50.0 | 53.8 | 50.0 | 49.5 | 0.5 |
| | 04.30-04.35 | 52.9 | 53.8 | 52.9 | 49.7 | 3.2 |
| | 04.35-04.40 | 55.3 | 53.4 | 53.8 | 48.1 | 5.7 |
| | 04.40-04.45 | 57.4 | 51.9 | 59.0 | 45.7 | 13.3 |
| | 04.45-04.50 | 56.6 | 45.4 | 59.3 | 44.0 | 15.3 |
| 15. | 04.50-04.55 | 55.8 | 45.4 | 58.4 | 43.6 | 14.8 |
| | 04.55-05.00 | 56.7 | 45.7 | 59.3 | 44.6 | 14.7 |
| | 05.00-05.05 | 55.1 | 45.5 | 57.6 | 44.4 | 13.2 |
| | 05.05-05.10 | 53.4 | 46.3 | 55.5 | 44.8 | 10.7 |
| | 05.10-05.15 | 50.8 | 46.1 | 52.0 | 44.6 | 7.4 |
| | 05.15-05.20 | 54.9 | 46.0 | 57.3 | 44.8 | 12.5 |
| | 05.20-05.25 | 52.8 | 46.1 | 54.8 | 44.0 | 10.8 |
| | 05.25-05.30 | 50.5 | 46.6 | 51.2 | 44.2 | 7.0 |
| | 05.30-05.35 | 51.3 | 46.0 | 52.8 | 44.8 | 8.0 |
| | 05.35-05.40 | 54.6 | 46.6 | 56.9 | 45.0 | 11.9 |
| 16. | 05.40-05.45 | 58.1 | 47.0 | 60.7 | 45.8 | 14.9 |
| | 05.45-05.50 | 50.4 | 47.0 | 50.7 | 45.8 | 4.9 |
| | 05.50-05.55 | 51.4 | 47.6 | 52.1 | 46.5 | 5.6 |
| | 05.55-06.00 | 51.8 | 47.2 | 53.0 | 46.1 | 6.9 |
| | 06.00-07.00 | 54.7 | 53.2 | 49.4 | 39.0 | 10.4 |
| | 07.00-08.00 | 53.8 | 48.9 | 52.1 | 45.2 | 6.9 |
| | 08.00-09.00 | 53.2 | 49.7 | 50.6 | 45.6 | 5.0 |
| | 09.00-10.00 | 50.9 | 50.4 | 41.3 | 45.8 | -4.5 |
| | 10.00-11.00 | 52.2 | 52.3 | 52.2 | 48.4 | 3.8 |
| | 11.00-12.00 | 52.6 | 53.0 | 52.6 | 49.0 | 3.6 |
| 22. | 12.00-13.00 | 53.6 | 56.2 | 53.6 | 42.4 | 11.2 |
| 23. | 13.00-14.00 | 53.4 | 55.0 | 53.4 | 41.7 | 11.7 |
| 24. | 14.00-15.00 | 54.8 | 54.0 | 47.1 | 41.7 | 5.4 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/15-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(15/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านสีแยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 67.1 | 51.2 | 67.0 | 41.7 | 25.3 |
| 2. | 16.00-17.00 | 67.0 | 50.8 | 66.9 | 41.7 | 25.2 |
| 3. | 17.00-18.00 | 67.1 | 49.5 | 67.0 | 45.8 | 21.2 |
| 4. | 18.00-19.00 | 67.1 | 50.3 | 67.0 | 46.0 | 21.0 |
| 5. | 19.00-20.00 | 67.1 | 50.1 | 67.0 | 46.2 | 20.8 |
| 6. | 20.00-21.00 | 67.2 | 49.7 | 67.1 | 45.4 | 21.7 |
| 7. | 21.00-22.00 | 67.3 | 48.8 | 67.2 | 45.6 | 21.6 |
| 8. | 22.00-22.05 | 67.4 | 48.6 | 70.3 | 45.9 | 24.4 |
| | 22.05-22.10 | 67.5 | 47.5 | 70.5 | 45.2 | 25.3 |
| | 22.10-22.15 | 67.4 | 48.6 | 70.3 | 46.2 | 24.1 |
| | 22.15-22.20 | 67.4 | 47.7 | 70.4 | 45.7 | 24.7 |
| | 22.20-22.25 | 67.4 | 49.1 | 70.3 | 45.6 | 24.7 |
| | 22.25-22.30 | 67.4 | 49.0 | 70.3 | 45.5 | 24.8 |
| | 22.30-22.35 | 67.3 | 47.3 | 70.3 | 44.9 | 25.4 |
| | 22.35-22.40 | 67.3 | 48.9 | 70.2 | 46.4 | 23.8 |
| | 22.40-22.45 | 67.3 | 49.1 | 70.2 | 46.0 | 24.2 |
| | 22.45-22.50 | 67.3 | 48.7 | 70.2 | 46.1 | 24.1 |
| | 22.50-22.55 | 67.3 | 48.9 | 70.2 | 45.2 | 25.0 |
| | 22.55-23.00 | 67.3 | 47.7 | 70.3 | 44.7 | 25.6 |
| 9. | 23.00-23.05 | 67.2 | 48.3 | 70.1 | 45.2 | 24.9 |
| | 23.05-23.10 | 67.2 | 48.6 | 70.1 | 44.7 | 25.4 |
| | 23.10-23.15 | 67.2 | 50.3 | 70.1 | 46.1 | 24.0 |
| | 23.15-23.20 | 67.1 | 48.5 | 70.0 | 45.1 | 24.9 |
| | 23.20-23.25 | 67.1 | 49.5 | 70.0 | 45.6 | 24.4 |
| | 23.25-23.30 | 67.2 | 49.1 | 70.1 | 44.7 | 25.4 |
| | 23.30-23.35 | 67.2 | 40.1 | 70.2 | 37.5 | 32.7 |
| | 23.35-23.40 | 67.3 | 43.3 | 70.3 | 37.5 | 32.8 |
| | 23.40-23.45 | 67.3 | 49.0 | 70.2 | 37.5 | 32.7 |
| | 23.45-23.50 | 67.2 | 42.6 | 70.2 | 37.5 | 32.7 |
| | 23.50-23.55 | 67.2 | 40.4 | 70.2 | 37.5 | 32.7 |
| | 23.55-00.00 | 67.3 | 42.9 | 70.3 | 37.5 | 32.8 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(15/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 67.3 | 53.1 | 70.1 | 37.5 | 32.6 |
| | 00.05-00.10 | 67.3 | 45.1 | 70.3 | 37.5 | 32.8 |
| | 00.10-00.15 | 67.3 | 45.3 | 70.3 | 37.5 | 32.8 |
| | 00.15-00.20 | 67.4 | 47.7 | 70.4 | 37.5 | 32.9 |
| | 00.20-00.25 | 67.4 | 40.9 | 70.4 | 37.5 | 32.9 |
| | 00.25-00.30 | 67.4 | 53.9 | 70.2 | 37.5 | 32.7 |
| | 00.30-00.35 | 67.4 | 41.9 | 70.4 | 37.5 | 32.9 |
| | 00.35-00.40 | 67.4 | 43.8 | 70.4 | 37.5 | 32.9 |
| | 00.40-00.45 | 67.4 | 40.5 | 70.4 | 37.5 | 32.9 |
| | 00.45-00.50 | 67.3 | 42.4 | 70.3 | 37.5 | 32.8 |
| | 00.50-00.55 | 67.2 | 40.8 | 70.2 | 38.9 | 31.3 |
| 11. | 00.55-01.00 | 67.2 | 41.3 | 70.2 | 38.6 | 31.6 |
| | 01.00-01.05 | 67.2 | 41.4 | 70.2 | 39.4 | 30.8 |
| | 01.05-01.10 | 67.1 | 40.9 | 70.1 | 39.0 | 31.1 |
| | 01.10-01.15 | 67.1 | 41.9 | 70.1 | 38.9 | 31.2 |
| | 01.15-01.20 | 67.0 | 43.7 | 70.0 | 38.8 | 31.2 |
| | 01.20-01.25 | 66.9 | 42.4 | 69.9 | 38.0 | 31.9 |
| | 01.25-01.30 | 67.0 | 40.9 | 70.0 | 38.5 | 31.5 |
| | 01.30-01.35 | 67.0 | 44.3 | 70.0 | 38.5 | 31.5 |
| | 01.35-01.40 | 66.9 | 40.9 | 69.9 | 39.4 | 30.5 |
| | 01.40-01.45 | 66.9 | 43.4 | 69.9 | 37.8 | 32.1 |
| | 01.45-01.50 | 67.0 | 44.9 | 70.0 | 39.7 | 30.3 |
| 12. | 01.50-01.55 | 67.0 | 43.1 | 70.0 | 39.9 | 30.1 |
| | 01.55-02.00 | 66.9 | 41.3 | 69.9 | 39.3 | 30.6 |
| | 02.00-02.05 | 67.0 | 41.8 | 70.0 | 39.2 | 30.8 |
| | 02.05-02.10 | 67.1 | 43.3 | 70.1 | 40.9 | 29.2 |
| | 02.10-02.15 | 67.1 | 48.7 | 70.0 | 47.4 | 22.6 |
| | 02.15-02.20 | 67.2 | 49.2 | 70.1 | 47.6 | 22.5 |
| | 02.20-02.25 | 67.1 | 50.4 | 70.0 | 48.0 | 22.0 |
| | 02.25-02.30 | 67.2 | 49.5 | 70.1 | 47.7 | 22.4 |
| | 02.30-02.35 | 67.1 | 48.9 | 70.0 | 47.4 | 22.6 |
| | 02.35-02.40 | 67.2 | 48.6 | 70.1 | 47.3 | 22.8 |
| | 02.40-02.45 | 67.1 | 49.2 | 70.0 | 47.4 | 22.6 |
| 13. | 02.45-02.50 | 67.2 | 51.2 | 70.1 | 49.4 | 20.7 |
| | 02.50-02.55 | 67.2 | 49.8 | 70.1 | 44.2 | 25.9 |
| | 02.55-03.00 | 67.2 | 50.4 | 70.1 | 43.5 | 26.6 |
| | 03.00-03.05 | 67.3 | 47.7 | 70.3 | 42.1 | 28.2 |
| | 03.05-03.10 | 67.3 | 45.3 | 70.3 | 41.0 | 29.3 |
| | 03.10-03.15 | 67.3 | 43.8 | 70.3 | 41.8 | 28.5 |
| | 03.15-03.20 | 67.3 | 43.4 | 70.3 | 41.0 | 29.3 |
| | 03.20-03.25 | 67.3 | 62.2 | 68.7 | 39.9 | 28.8 |
| | 03.25-03.30 | 67.2 | 49.5 | 70.1 | 40.5 | 29.6 |
| | 03.30-03.35 | 67.1 | 63.3 | 67.8 | 44.5 | 23.3 |
| | 03.35-03.40 | 67.1 | 57.4 | 69.6 | 42.7 | 26.9 |
| | 03.40-03.45 | 67.1 | 45.3 | 70.1 | 41.5 | 28.6 |
| | 03.45-03.50 | 67.3 | 42.7 | 70.3 | 41.7 | 28.6 |
| | 03.50-03.55 | 67.3 | 41.9 | 70.3 | 40.9 | 29.4 |
| | 03.55-04.00 | 67.3 | 42.1 | 70.3 | 41.4 | 28.9 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(15/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 67.3 | 42.9 | 70.3 | 41.3 | 29.0 |
| | 04.05-04.10 | 67.4 | 42.1 | 70.4 | 41.2 | 29.2 |
| | 04.10-04.15 | 67.4 | 44.4 | 70.4 | 41.6 | 28.8 |
| | 04.15-04.20 | 67.5 | 42.1 | 70.5 | 41.5 | 29.0 |
| | 04.20-04.25 | 67.5 | 42.1 | 70.5 | 41.5 | 29.0 |
| | 04.25-04.30 | 67.5 | 43.0 | 70.5 | 41.7 | 28.8 |
| | 04.30-04.35 | 67.5 | 42.8 | 70.5 | 41.9 | 28.6 |
| | 04.35-04.40 | 67.5 | 42.4 | 70.5 | 41.7 | 28.8 |
| | 04.40-04.45 | 67.5 | 42.2 | 70.5 | 41.3 | 29.2 |
| | 04.45-04.50 | 67.6 | 42.1 | 70.6 | 41.4 | 29.2 |
| 15. | 04.50-04.55 | 67.6 | 41.9 | 70.6 | 41.4 | 29.2 |
| | 04.55-05.00 | 67.6 | 42.3 | 70.6 | 41.3 | 29.3 |
| | 05.00-05.05 | 67.5 | 42.7 | 70.5 | 41.3 | 29.2 |
| | 05.05-05.10 | 67.5 | 41.7 | 70.5 | 41.1 | 29.4 |
| | 05.10-05.15 | 67.5 | 41.9 | 70.5 | 41.3 | 29.2 |
| | 05.15-05.20 | 67.6 | 42.1 | 70.6 | 41.0 | 29.6 |
| | 05.20-05.25 | 67.6 | 41.8 | 70.6 | 40.5 | 30.1 |
| | 05.25-05.30 | 67.5 | 42.1 | 70.5 | 40.4 | 30.1 |
| | 05.30-05.35 | 67.5 | 42.1 | 70.5 | 41.0 | 29.5 |
| | 05.35-05.40 | 67.5 | 43.6 | 70.5 | 41.8 | 28.7 |
| 16. | 05.40-05.45 | 67.5 | 42.2 | 70.5 | 41.2 | 29.3 |
| | 05.45-05.50 | 67.4 | 41.8 | 70.4 | 41.3 | 29.1 |
| | 05.50-05.55 | 67.5 | 41.9 | 70.5 | 41.3 | 29.2 |
| | 05.55-06.00 | 67.5 | 42.1 | 70.5 | 41.4 | 29.1 |
| | 06.00-07.00 | 67.3 | 48.5 | 67.2 | 45.7 | 21.5 |
| | 07.00-08.00 | 67.4 | 46.1 | 67.4 | 42.9 | 24.5 |
| | 08.00-09.00 | 67.5 | 44.2 | 67.5 | 42.0 | 25.5 |
| | 09.00-10.00 | 67.3 | 45.0 | 67.3 | 43.0 | 24.3 |
| | 10.00-11.00 | 68.2 | 46.1 | 68.2 | 43.1 | 25.1 |
| | 11.00-12.00 | 68.3 | 47.1 | 68.3 | 44.3 | 24.0 |
| 22. | 12.00-13.00 | 68.3 | 47.8 | 68.3 | 45.0 | 23.3 |
| | 13.00-14.00 | 68.2 | 51.6 | 68.1 | 49.4 | 18.7 |
| 24. | 14.00-15.00 | 68.2 | 54.0 | 68.0 | 42.5 | 25.5 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/16-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(16/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 68.2 | 51.2 | 68.1 | 41.7 | 26.4 |
| 2. | 16.00-17.00 | 68.2 | 50.8 | 68.1 | 41.7 | 26.4 |
| 3. | 17.00-18.00 | 68.1 | 49.5 | 68.0 | 45.8 | 22.2 |
| 4. | 18.00-19.00 | 68.0 | 50.3 | 67.9 | 46.0 | 21.9 |
| 5. | 19.00-20.00 | 68.1 | 50.1 | 68.0 | 46.2 | 21.8 |
| 6. | 20.00-21.00 | 68.2 | 49.7 | 68.1 | 45.4 | 22.7 |
| 7. | 21.00-22.00 | 68.3 | 48.8 | 68.3 | 45.6 | 22.7 |
| 8. | 22.00-22.05 | 68.1 | 48.6 | 71.1 | 45.9 | 25.2 |
| | 22.05-22.10 | 68.3 | 47.5 | 71.3 | 45.2 | 26.1 |
| | 22.10-22.15 | 68.4 | 48.6 | 71.4 | 46.2 | 25.2 |
| | 22.15-22.20 | 68.3 | 47.7 | 71.3 | 45.7 | 25.6 |
| | 22.20-22.25 | 68.3 | 49.1 | 71.2 | 45.6 | 25.6 |
| | 22.25-22.30 | 68.3 | 49.0 | 71.2 | 45.5 | 25.7 |
| | 22.30-22.35 | 68.3 | 47.3 | 71.3 | 44.9 | 26.4 |
| | 22.35-22.40 | 68.2 | 48.9 | 71.1 | 46.4 | 24.7 |
| | 22.40-22.45 | 68.2 | 49.1 | 71.1 | 46.0 | 25.1 |
| | 22.45-22.50 | 68.3 | 48.7 | 71.3 | 46.1 | 25.2 |
| | 22.50-22.55 | 68.3 | 48.9 | 71.2 | 45.2 | 26.0 |
| | 22.55-23.00 | 68.3 | 47.7 | 71.3 | 44.7 | 26.6 |
| 9. | 23.00-23.05 | 68.5 | 48.3 | 71.5 | 45.2 | 26.3 |
| | 23.05-23.10 | 68.3 | 48.6 | 71.3 | 44.7 | 26.6 |
| | 23.10-23.15 | 68.2 | 50.3 | 71.1 | 46.1 | 25.0 |
| | 23.15-23.20 | 68.2 | 48.5 | 71.2 | 45.1 | 26.1 |
| | 23.20-23.25 | 68.2 | 49.5 | 71.1 | 45.6 | 25.5 |
| | 23.25-23.30 | 68.1 | 49.1 | 71.0 | 44.7 | 26.3 |
| | 23.30-23.35 | 68.2 | 40.1 | 71.2 | 37.5 | 33.7 |
| | 23.35-23.40 | 68.1 | 43.3 | 71.1 | 37.5 | 33.6 |
| | 23.40-23.45 | 68.2 | 49.0 | 71.1 | 37.5 | 33.6 |
| | 23.45-23.50 | 68.3 | 42.6 | 71.3 | 37.5 | 33.8 |
| | 23.50-23.55 | 68.3 | 40.4 | 71.3 | 37.5 | 33.8 |
| | 23.55-00.00 | 68.3 | 42.9 | 71.3 | 37.5 | 33.8 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(16/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสีแยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 68.3 | 53.1 | 71.2 | 37.5 | 33.7 |
| | 00.05-00.10 | 68.4 | 45.1 | 71.4 | 37.5 | 33.9 |
| | 00.10-00.15 | 68.6 | 45.3 | 71.6 | 37.5 | 34.1 |
| | 00.15-00.20 | 68.5 | 47.7 | 71.5 | 37.5 | 34.0 |
| | 00.20-00.25 | 68.5 | 40.9 | 71.5 | 37.5 | 34.0 |
| | 00.25-00.30 | 68.6 | 53.9 | 71.5 | 37.5 | 34.0 |
| | 00.30-00.35 | 68.4 | 41.9 | 71.4 | 37.5 | 33.9 |
| | 00.35-00.40 | 68.5 | 43.8 | 71.5 | 37.5 | 34.0 |
| | 00.40-00.45 | 68.4 | 40.5 | 71.4 | 37.5 | 33.9 |
| | 00.45-00.50 | 68.6 | 42.4 | 71.6 | 37.5 | 34.1 |
| 11. | 00.50-00.55 | 68.4 | 40.8 | 71.4 | 38.9 | 32.5 |
| | 00.55-01.00 | 68.4 | 41.3 | 71.4 | 38.6 | 32.8 |
| | 01.00-01.05 | 68.4 | 41.4 | 71.4 | 39.4 | 32.0 |
| | 01.05-01.10 | 68.4 | 40.9 | 71.4 | 39.0 | 32.4 |
| | 01.10-01.15 | 68.5 | 41.9 | 71.5 | 38.9 | 32.6 |
| | 01.15-01.20 | 68.4 | 43.7 | 71.4 | 38.8 | 32.6 |
| | 01.20-01.25 | 68.3 | 42.4 | 71.3 | 38.0 | 33.3 |
| | 01.25-01.30 | 68.2 | 40.9 | 71.2 | 38.5 | 32.7 |
| | 01.30-01.35 | 68.3 | 44.3 | 71.3 | 38.5 | 32.8 |
| | 01.35-01.40 | 68.0 | 40.9 | 71.0 | 39.4 | 31.6 |
| 12. | 01.40-01.45 | 67.9 | 43.4 | 70.9 | 37.8 | 33.1 |
| | 01.45-01.50 | 67.8 | 44.9 | 70.8 | 39.7 | 31.1 |
| | 01.50-01.55 | 67.9 | 43.1 | 70.9 | 39.9 | 31.0 |
| | 01.55-02.00 | 67.8 | 41.3 | 70.8 | 39.3 | 31.5 |
| | 02.00-02.05 | 67.9 | 41.8 | 70.9 | 39.2 | 31.7 |
| | 02.05-02.10 | 67.8 | 43.3 | 70.8 | 40.9 | 29.9 |
| | 02.10-02.15 | 67.9 | 48.7 | 70.8 | 47.4 | 23.4 |
| | 02.15-02.20 | 67.8 | 49.2 | 70.7 | 47.6 | 23.1 |
| | 02.20-02.25 | 67.9 | 50.4 | 70.8 | 48.0 | 22.8 |
| | 02.25-02.30 | 67.8 | 49.5 | 70.7 | 47.7 | 23.0 |
| 13. | 02.30-02.35 | 67.8 | 48.9 | 70.7 | 47.4 | 23.3 |
| | 02.35-02.40 | 68.0 | 48.6 | 70.9 | 47.3 | 23.6 |
| | 02.40-02.45 | 68.1 | 49.2 | 71.0 | 47.4 | 23.6 |
| | 02.45-02.50 | 68.2 | 51.2 | 71.1 | 49.4 | 21.7 |
| | 02.50-02.55 | 68.0 | 49.8 | 70.9 | 44.2 | 26.7 |
| | 02.55-03.00 | 68.1 | 50.4 | 71.0 | 43.5 | 27.5 |
| | 03.00-03.05 | 67.9 | 47.7 | 70.9 | 42.1 | 28.8 |
| | 03.05-03.10 | 68.0 | 45.3 | 71.0 | 41.0 | 30.0 |
| | 03.10-03.15 | 68.0 | 43.8 | 71.0 | 41.8 | 29.2 |
| | 03.15-03.20 | 68.2 | 43.4 | 71.2 | 41.0 | 30.2 |
| | 03.20-03.25 | 68.1 | 62.2 | 69.8 | 39.9 | 29.9 |
| | 03.25-03.30 | 68.1 | 49.5 | 71.0 | 40.5 | 30.5 |
| | 03.30-03.35 | 68.3 | 63.3 | 69.6 | 44.5 | 25.1 |
| | 03.35-03.40 | 68.2 | 57.4 | 70.8 | 42.7 | 28.1 |
| | 03.40-03.45 | 68.2 | 45.3 | 71.2 | 41.5 | 29.7 |
| | 03.45-03.50 | 68.2 | 42.7 | 71.2 | 41.7 | 29.5 |
| | 03.50-03.55 | 68.1 | 41.9 | 71.1 | 40.9 | 30.2 |
| | 03.55-04.00 | 68.1 | 42.1 | 71.1 | 41.4 | 29.7 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(16/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสีแยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 68.1 | 42.9 | 71.1 | 41.3 | 29.8 |
| | 04.05-04.10 | 68.0 | 42.1 | 71.0 | 41.2 | 29.8 |
| | 04.10-04.15 | 67.8 | 44.4 | 70.8 | 41.6 | 29.2 |
| | 04.15-04.20 | 68.0 | 42.1 | 71.0 | 41.5 | 29.5 |
| | 04.20-04.25 | 67.9 | 42.1 | 70.9 | 41.5 | 29.4 |
| | 04.25-04.30 | 68.0 | 43.0 | 71.0 | 41.7 | 29.3 |
| | 04.30-04.35 | 68.0 | 42.8 | 71.0 | 41.9 | 29.1 |
| | 04.35-04.40 | 68.3 | 42.4 | 71.3 | 41.7 | 29.6 |
| | 04.40-04.45 | 68.4 | 42.2 | 71.4 | 41.3 | 30.1 |
| | 04.45-04.50 | 68.2 | 42.1 | 71.2 | 41.4 | 29.8 |
| 15. | 04.50-04.55 | 68.2 | 41.9 | 71.2 | 41.4 | 29.8 |
| | 04.55-05.00 | 68.2 | 42.3 | 71.2 | 41.3 | 29.9 |
| | 05.00-05.05 | 68.3 | 42.7 | 71.3 | 41.3 | 30.0 |
| | 05.05-05.10 | 68.3 | 41.7 | 71.3 | 41.1 | 30.2 |
| | 05.10-05.15 | 68.3 | 41.9 | 71.3 | 41.3 | 30.0 |
| | 05.15-05.20 | 68.3 | 42.1 | 71.3 | 41.0 | 30.3 |
| | 05.20-05.25 | 68.3 | 41.8 | 71.3 | 40.5 | 30.8 |
| | 05.25-05.30 | 68.3 | 42.1 | 71.3 | 40.4 | 30.9 |
| | 05.30-05.35 | 68.4 | 42.1 | 71.4 | 41.0 | 30.4 |
| | 05.35-05.40 | 68.4 | 43.6 | 71.4 | 41.8 | 29.6 |
| 16. | 05.40-05.45 | 68.3 | 42.2 | 71.3 | 41.2 | 30.1 |
| | 05.45-05.50 | 68.3 | 41.8 | 71.3 | 41.3 | 30.0 |
| | 05.50-05.55 | 68.3 | 41.9 | 71.3 | 41.3 | 30.0 |
| | 05.55-06.00 | 68.3 | 42.1 | 71.3 | 41.4 | 29.9 |
| | 06.00-07.00 | 68.4 | 48.5 | 68.4 | 45.7 | 22.7 |
| | 07.00-08.00 | 68.5 | 46.1 | 68.5 | 42.9 | 25.6 |
| | 08.00-09.00 | 68.4 | 44.2 | 68.4 | 42.0 | 26.4 |
| | 09.00-10.00 | 68.3 | 45.0 | 68.3 | 43.0 | 25.3 |
| | 10.00-11.00 | 68.3 | 46.1 | 68.3 | 43.1 | 25.2 |
| | 11.00-12.00 | 68.5 | 47.1 | 68.5 | 44.3 | 24.2 |
| 22. | 12.00-13.00 | 67.5 | 47.8 | 67.5 | 45.0 | 22.5 |
| 23. | 13.00-14.00 | 67.2 | 51.6 | 67.1 | 49.4 | 17.7 |
| 24. | 14.00-15.00 | 67.1 | 54.0 | 66.9 | 42.5 | 24.4 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/17-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(17/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 66.9 | 51.2 | 66.8 | 41.7 | 25.1 |
| 2. | 16.00-17.00 | 67.8 | 50.8 | 67.7 | 41.7 | 26.0 |
| 3. | 17.00-18.00 | 67.8 | 49.5 | 67.7 | 45.8 | 21.9 |
| 4. | 18.00-19.00 | 67.9 | 50.3 | 67.8 | 46.0 | 21.8 |
| 5. | 19.00-20.00 | 68.0 | 50.1 | 67.9 | 46.2 | 21.7 |
| 6. | 20.00-21.00 | 67.9 | 49.7 | 67.8 | 45.4 | 22.4 |
| 7. | 21.00-22.00 | 68.0 | 48.8 | 67.9 | 45.6 | 22.3 |
| 8. | 22.00-22.05 | 68.3 | 48.6 | 71.3 | 45.9 | 25.4 |
| | 22.05-22.10 | 68.6 | 47.5 | 71.6 | 45.2 | 26.4 |
| | 22.10-22.15 | 68.6 | 48.6 | 71.6 | 46.2 | 25.4 |
| | 22.15-22.20 | 68.6 | 47.7 | 71.6 | 45.7 | 25.9 |
| | 22.20-22.25 | 68.5 | 49.1 | 71.4 | 45.6 | 25.8 |
| | 22.25-22.30 | 68.6 | 49.0 | 71.6 | 45.5 | 26.1 |
| | 22.30-22.35 | 68.3 | 47.3 | 71.3 | 44.9 | 26.4 |
| | 22.35-22.40 | 68.0 | 48.9 | 70.9 | 46.4 | 24.5 |
| | 22.40-22.45 | 68.1 | 49.1 | 71.0 | 46.0 | 25.0 |
| | 22.45-22.50 | 68.0 | 48.7 | 70.9 | 46.1 | 24.8 |
| | 22.50-22.55 | 68.0 | 48.9 | 70.9 | 45.2 | 25.7 |
| | 22.55-23.00 | 68.0 | 47.7 | 71.0 | 44.7 | 26.3 |
| 9. | 23.00-23.05 | 68.0 | 48.3 | 71.0 | 45.2 | 25.8 |
| | 23.05-23.10 | 68.0 | 48.6 | 70.9 | 44.7 | 26.2 |
| | 23.10-23.15 | 68.0 | 50.3 | 70.9 | 46.1 | 24.8 |
| | 23.15-23.20 | 68.0 | 48.5 | 71.0 | 45.1 | 25.9 |
| | 23.20-23.25 | 68.0 | 49.5 | 70.9 | 45.6 | 25.3 |
| | 23.25-23.30 | 68.0 | 49.1 | 70.9 | 44.7 | 26.2 |
| | 23.30-23.35 | 68.0 | 40.1 | 71.0 | 37.5 | 33.5 |
| | 23.35-23.40 | 68.0 | 43.3 | 71.0 | 37.5 | 33.5 |
| | 23.40-23.45 | 68.0 | 49.0 | 70.9 | 37.5 | 33.4 |
| | 23.45-23.50 | 68.1 | 42.6 | 71.1 | 37.5 | 33.6 |
| | 23.50-23.55 | 68.0 | 40.4 | 71.0 | 37.5 | 33.5 |
| | 23.55-00.00 | 68.0 | 42.9 | 71.0 | 37.5 | 33.5 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(17/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 68.1 | 53.1 | 71.0 | 37.5 | 33.5 |
| | 00.05-00.10 | 68.1 | 45.1 | 71.1 | 37.5 | 33.6 |
| | 00.10-00.15 | 68.1 | 45.3 | 71.1 | 37.5 | 33.6 |
| | 00.15-00.20 | 68.1 | 47.7 | 71.1 | 37.5 | 33.6 |
| | 00.20-00.25 | 68.1 | 40.9 | 71.1 | 37.5 | 33.6 |
| | 00.25-00.30 | 68.0 | 53.9 | 70.8 | 37.5 | 33.3 |
| | 00.30-00.35 | 68.0 | 41.9 | 71.0 | 37.5 | 33.5 |
| | 00.35-00.40 | 68.1 | 43.8 | 71.1 | 37.5 | 33.6 |
| | 00.40-00.45 | 68.1 | 40.5 | 71.1 | 37.5 | 33.6 |
| | 00.45-00.50 | 68.0 | 42.4 | 71.0 | 37.5 | 33.5 |
| 11. | 00.50-00.55 | 68.0 | 40.8 | 71.0 | 38.9 | 32.1 |
| | 00.55-01.00 | 67.8 | 41.3 | 70.8 | 38.6 | 32.2 |
| | 01.00-01.05 | 68.0 | 41.4 | 71.0 | 39.4 | 31.6 |
| | 01.05-01.10 | 68.0 | 40.9 | 71.0 | 39.0 | 32.0 |
| | 01.10-01.15 | 68.0 | 41.9 | 71.0 | 38.9 | 32.1 |
| | 01.15-01.20 | 68.0 | 43.7 | 71.0 | 38.8 | 32.2 |
| | 01.20-01.25 | 68.0 | 42.4 | 71.0 | 38.0 | 33.0 |
| | 01.25-01.30 | 68.0 | 40.9 | 71.0 | 38.5 | 32.5 |
| | 01.30-01.35 | 68.0 | 44.3 | 71.0 | 38.5 | 32.5 |
| | 01.35-01.40 | 68.0 | 40.9 | 71.0 | 39.4 | 31.6 |
| 12. | 01.40-01.45 | 68.0 | 43.4 | 71.0 | 37.8 | 33.2 |
| | 01.45-01.50 | 68.1 | 44.9 | 71.1 | 39.7 | 31.4 |
| | 01.50-01.55 | 68.1 | 43.1 | 71.1 | 39.9 | 31.2 |
| | 01.55-02.00 | 68.0 | 41.3 | 71.0 | 39.3 | 31.7 |
| | 02.00-02.05 | 68.1 | 41.8 | 71.1 | 39.2 | 31.9 |
| | 02.05-02.10 | 68.0 | 43.3 | 71.0 | 40.9 | 30.1 |
| | 02.10-02.15 | 67.9 | 48.7 | 70.8 | 47.4 | 23.4 |
| | 02.15-02.20 | 67.9 | 49.2 | 70.8 | 47.6 | 23.2 |
| | 02.20-02.25 | 67.9 | 50.4 | 70.8 | 48.0 | 22.8 |
| | 02.25-02.30 | 67.9 | 49.5 | 70.8 | 47.7 | 23.1 |
| 13. | 02.30-02.35 | 68.0 | 48.9 | 70.9 | 47.4 | 23.5 |
| | 02.35-02.40 | 68.0 | 48.6 | 70.9 | 47.3 | 23.6 |
| | 02.40-02.45 | 67.9 | 49.2 | 70.8 | 47.4 | 23.4 |
| | 02.45-02.50 | 68.0 | 51.2 | 70.9 | 49.4 | 21.5 |
| | 02.50-02.55 | 68.0 | 49.8 | 70.9 | 44.2 | 26.7 |
| | 02.55-03.00 | 67.9 | 50.4 | 70.8 | 43.5 | 27.3 |
| | 03.00-03.05 | 67.8 | 47.7 | 70.8 | 42.1 | 28.7 |
| | 03.05-03.10 | 68.0 | 45.3 | 71.0 | 41.0 | 30.0 |
| | 03.10-03.15 | 67.9 | 43.8 | 70.9 | 41.8 | 29.1 |
| | 03.15-03.20 | 67.9 | 43.4 | 70.9 | 41.0 | 29.9 |
| | 03.20-03.25 | 67.9 | 62.2 | 69.5 | 39.9 | 29.6 |
| | 03.25-03.30 | 68.0 | 49.5 | 70.9 | 40.5 | 30.4 |
| | 03.30-03.35 | 68.0 | 63.3 | 69.2 | 44.5 | 24.7 |
| | 03.35-03.40 | 68.0 | 57.4 | 70.6 | 42.7 | 27.9 |
| | 03.40-03.45 | 68.0 | 45.3 | 71.0 | 41.5 | 29.5 |
| | 03.45-03.50 | 68.0 | 42.7 | 71.0 | 41.7 | 29.3 |
| | 03.50-03.55 | 68.0 | 41.9 | 71.0 | 40.9 | 30.1 |
| | 03.55-04.00 | 68.0 | 42.1 | 71.0 | 41.4 | 29.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(17/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 67.9 | 42.9 | 70.9 | 41.3 | 29.6 |
| | 04.05-04.10 | 68.0 | 42.1 | 71.0 | 41.2 | 29.8 |
| | 04.10-04.15 | 68.0 | 44.4 | 71.0 | 41.6 | 29.4 |
| | 04.15-04.20 | 68.0 | 42.1 | 71.0 | 41.5 | 29.5 |
| | 04.20-04.25 | 67.9 | 42.1 | 70.9 | 41.5 | 29.4 |
| | 04.25-04.30 | 68.1 | 43.0 | 71.1 | 41.7 | 29.4 |
| | 04.30-04.35 | 68.0 | 42.8 | 71.0 | 41.9 | 29.1 |
| | 04.35-04.40 | 67.9 | 42.4 | 70.9 | 41.7 | 29.2 |
| | 04.40-04.45 | 68.0 | 42.2 | 71.0 | 41.3 | 29.7 |
| | 04.45-04.50 | 68.0 | 42.1 | 71.0 | 41.4 | 29.6 |
| | 04.50-04.55 | 67.9 | 41.9 | 70.9 | 41.4 | 29.5 |
| 15. | 04.55-05.00 | 68.0 | 42.3 | 71.0 | 41.3 | 29.7 |
| | 05.00-05.05 | 68.0 | 42.7 | 71.0 | 41.3 | 29.7 |
| | 05.05-05.10 | 68.1 | 41.7 | 71.1 | 41.1 | 30.0 |
| | 05.10-05.15 | 68.0 | 41.9 | 71.0 | 41.3 | 29.7 |
| | 05.15-05.20 | 68.0 | 42.1 | 71.0 | 41.0 | 30.0 |
| | 05.20-05.25 | 68.0 | 41.8 | 71.0 | 40.5 | 30.5 |
| | 05.25-05.30 | 68.0 | 42.1 | 71.0 | 40.4 | 30.6 |
| | 05.30-05.35 | 68.0 | 42.1 | 71.0 | 41.0 | 30.0 |
| | 05.35-05.40 | 68.0 | 43.6 | 71.0 | 41.8 | 29.2 |
| | 05.40-05.45 | 68.0 | 42.2 | 71.0 | 41.2 | 29.8 |
| | 05.45-05.50 | 68.0 | 41.8 | 71.0 | 41.3 | 29.7 |
| 16. | 05.50-05.55 | 68.0 | 41.9 | 71.0 | 41.3 | 29.7 |
| | 05.55-06.00 | 68.0 | 42.1 | 71.0 | 41.4 | 29.6 |
| | 06.00-07.00 | 67.9 | 48.5 | 67.8 | 45.7 | 22.1 |
| | 07.00-08.00 | 67.9 | 46.1 | 67.9 | 42.9 | 25.0 |
| | 08.00-09.00 | 67.9 | 44.2 | 67.9 | 42.0 | 25.9 |
| | 09.00-10.00 | 67.8 | 45.0 | 67.8 | 43.0 | 24.8 |
| | 10.00-11.00 | 67.6 | 46.1 | 67.6 | 43.1 | 24.5 |
| | 11.00-12.00 | 67.6 | 47.1 | 67.6 | 44.3 | 23.3 |
| | 12.00-13.00 | 67.7 | 47.8 | 67.7 | 45.0 | 22.7 |
| | 13.00-14.00 | 67.6 | 51.6 | 67.5 | 49.4 | 18.1 |
| | 14.00-15.00 | 67.6 | 54.0 | 67.4 | 42.5 | 24.9 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/18-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(18/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 67.4 | 51.2 | 67.3 | 41.7 | 25.6 |
| 2. | 16.00-17.00 | 67.4 | 50.8 | 67.3 | 41.7 | 25.6 |
| 3. | 17.00-18.00 | 67.5 | 49.5 | 67.4 | 45.8 | 21.6 |
| 4. | 18.00-19.00 | 67.6 | 50.3 | 67.5 | 46.0 | 21.5 |
| 5. | 19.00-20.00 | 67.7 | 50.1 | 67.6 | 46.2 | 21.4 |
| 6. | 20.00-21.00 | 67.9 | 49.7 | 67.8 | 45.4 | 22.4 |
| 7. | 21.00-22.00 | 68.0 | 48.8 | 67.9 | 45.6 | 22.3 |
| 8. | 22.00-22.05 | 68.0 | 48.6 | 70.9 | 45.9 | 25.0 |
| | 22.05-22.10 | 68.0 | 47.5 | 71.0 | 45.2 | 25.8 |
| | 22.10-22.15 | 68.0 | 48.6 | 70.9 | 46.2 | 24.7 |
| | 22.15-22.20 | 68.0 | 47.7 | 71.0 | 45.7 | 25.3 |
| | 22.20-22.25 | 68.0 | 49.1 | 70.9 | 45.6 | 25.3 |
| | 22.25-22.30 | 68.0 | 49.0 | 70.9 | 45.5 | 25.4 |
| | 22.30-22.35 | 68.0 | 47.3 | 71.0 | 44.9 | 26.1 |
| | 22.35-22.40 | 68.0 | 48.9 | 70.9 | 46.4 | 24.5 |
| | 22.40-22.45 | 68.1 | 49.1 | 71.0 | 46.0 | 25.0 |
| | 22.45-22.50 | 68.1 | 48.7 | 71.0 | 46.1 | 24.9 |
| | 22.50-22.55 | 68.1 | 48.9 | 71.0 | 45.2 | 25.8 |
| | 22.55-23.00 | 68.0 | 47.7 | 71.0 | 44.7 | 26.3 |
| 9. | 23.00-23.05 | 68.1 | 48.3 | 71.1 | 45.2 | 25.9 |
| | 23.05-23.10 | 68.1 | 48.6 | 71.1 | 44.7 | 26.4 |
| | 23.10-23.15 | 68.0 | 50.3 | 70.9 | 46.1 | 24.8 |
| | 23.15-23.20 | 68.1 | 48.5 | 71.1 | 45.1 | 26.0 |
| | 23.20-23.25 | 67.9 | 49.5 | 70.8 | 45.6 | 25.2 |
| | 23.25-23.30 | 67.9 | 49.1 | 70.8 | 44.7 | 26.1 |
| | 23.30-23.35 | 67.8 | 40.1 | 70.8 | 37.5 | 33.3 |
| | 23.35-23.40 | 67.8 | 43.3 | 70.8 | 37.5 | 33.3 |
| | 23.40-23.45 | 67.8 | 49.0 | 70.7 | 37.5 | 33.2 |
| | 23.45-23.50 | 67.8 | 42.6 | 70.8 | 37.5 | 33.3 |
| | 23.50-23.55 | 67.9 | 40.4 | 70.9 | 37.5 | 33.4 |
| | 23.55-00.00 | 67.9 | 42.9 | 70.9 | 37.5 | 33.4 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(18/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสีแยกเขาหิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 67.9 | 53.1 | 70.8 | 37.5 | 33.3 |
| | 00.05-00.10 | 68.0 | 45.1 | 71.0 | 37.5 | 33.5 |
| | 00.10-00.15 | 68.0 | 45.3 | 71.0 | 37.5 | 33.5 |
| | 00.15-00.20 | 68.0 | 47.7 | 71.0 | 37.5 | 33.5 |
| | 00.20-00.25 | 67.9 | 40.9 | 70.9 | 37.5 | 33.4 |
| | 00.25-00.30 | 67.9 | 53.9 | 70.7 | 37.5 | 33.2 |
| | 00.30-00.35 | 67.9 | 41.9 | 70.9 | 37.5 | 33.4 |
| | 00.35-00.40 | 68.0 | 43.8 | 71.0 | 37.5 | 33.5 |
| | 00.40-00.45 | 68.0 | 40.5 | 71.0 | 37.5 | 33.5 |
| | 00.45-00.50 | 68.0 | 42.4 | 71.0 | 37.5 | 33.5 |
| 11. | 00.50-00.55 | 68.0 | 40.8 | 71.0 | 38.9 | 32.1 |
| | 00.55-01.00 | 68.0 | 41.3 | 71.0 | 38.6 | 32.4 |
| | 01.00-01.05 | 68.0 | 41.4 | 71.0 | 39.4 | 31.6 |
| | 01.05-01.10 | 68.1 | 40.9 | 71.1 | 39.0 | 32.1 |
| | 01.10-01.15 | 68.1 | 41.9 | 71.1 | 38.9 | 32.2 |
| | 01.15-01.20 | 68.1 | 43.7 | 71.1 | 38.8 | 32.3 |
| | 01.20-01.25 | 68.1 | 42.4 | 71.1 | 38.0 | 33.1 |
| | 01.25-01.30 | 68.1 | 40.9 | 71.1 | 38.5 | 32.6 |
| | 01.30-01.35 | 68.1 | 44.3 | 71.1 | 38.5 | 32.6 |
| | 01.35-01.40 | 68.1 | 40.9 | 71.1 | 39.4 | 31.7 |
| 12. | 01.40-01.45 | 68.1 | 43.4 | 71.1 | 37.8 | 33.3 |
| | 01.45-01.50 | 68.1 | 44.9 | 71.1 | 39.7 | 31.4 |
| | 01.50-01.55 | 68.1 | 43.1 | 71.1 | 39.9 | 31.2 |
| | 01.55-02.00 | 68.1 | 41.3 | 71.1 | 39.3 | 31.8 |
| | 02.00-02.05 | 68.0 | 41.8 | 71.0 | 39.2 | 31.8 |
| | 02.05-02.10 | 68.0 | 43.3 | 71.0 | 40.9 | 30.1 |
| | 02.10-02.15 | 68.0 | 48.7 | 70.9 | 47.4 | 23.5 |
| | 02.15-02.20 | 68.0 | 49.2 | 70.9 | 47.6 | 23.3 |
| | 02.20-02.25 | 68.1 | 50.4 | 71.0 | 48.0 | 23.0 |
| | 02.25-02.30 | 68.1 | 49.5 | 71.0 | 47.7 | 23.3 |
| 13. | 02.30-02.35 | 68.0 | 48.9 | 70.9 | 47.4 | 23.5 |
| | 02.35-02.40 | 68.0 | 48.6 | 70.9 | 47.3 | 23.6 |
| | 02.40-02.45 | 67.9 | 49.2 | 70.8 | 47.4 | 23.4 |
| | 02.45-02.50 | 67.9 | 51.2 | 70.8 | 49.4 | 21.4 |
| | 02.50-02.55 | 67.8 | 49.8 | 70.7 | 44.2 | 26.5 |
| | 02.55-03.00 | 67.9 | 50.4 | 70.8 | 43.5 | 27.3 |
| | 03.00-03.05 | 67.9 | 47.7 | 70.9 | 42.1 | 28.8 |
| | 03.05-03.10 | 68.0 | 45.3 | 71.0 | 41.0 | 30.0 |
| | 03.10-03.15 | 68.1 | 43.8 | 71.1 | 41.8 | 29.3 |
| | 03.15-03.20 | 68.1 | 43.4 | 71.1 | 41.0 | 30.1 |
| | 03.20-03.25 | 68.1 | 62.2 | 69.8 | 39.9 | 29.9 |
| | 03.25-03.30 | 68.1 | 49.5 | 71.0 | 40.5 | 30.5 |
| | 03.30-03.35 | 68.1 | 63.3 | 69.4 | 44.5 | 24.9 |
| | 03.35-03.40 | 68.0 | 57.4 | 70.6 | 42.7 | 27.9 |
| | 03.40-03.45 | 68.0 | 45.3 | 71.0 | 41.5 | 29.5 |
| | 03.45-03.50 | 67.9 | 42.7 | 70.9 | 41.7 | 29.2 |
| | 03.50-03.55 | 68.0 | 41.9 | 71.0 | 40.9 | 30.1 |
| | 03.55-04.00 | 68.0 | 42.1 | 71.0 | 41.4 | 29.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(18/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสีแยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 68.0 | 42.9 | 71.0 | 41.3 | 29.7 |
| | 04.05-04.10 | 68.0 | 42.1 | 71.0 | 41.2 | 29.8 |
| | 04.10-04.15 | 68.0 | 44.4 | 71.0 | 41.6 | 29.4 |
| | 04.15-04.20 | 68.0 | 42.1 | 71.0 | 41.5 | 29.5 |
| | 04.20-04.25 | 68.1 | 42.1 | 71.1 | 41.5 | 29.6 |
| | 04.25-04.30 | 68.0 | 43.0 | 71.0 | 41.7 | 29.3 |
| | 04.30-04.35 | 68.0 | 42.8 | 71.0 | 41.9 | 29.1 |
| | 04.35-04.40 | 68.0 | 42.4 | 71.0 | 41.7 | 29.3 |
| | 04.40-04.45 | 67.9 | 42.2 | 70.9 | 41.3 | 29.6 |
| | 04.45-04.50 | 68.2 | 42.1 | 71.2 | 41.4 | 29.8 |
| | 04.50-04.55 | 68.7 | 41.9 | 71.7 | 41.4 | 30.3 |
| 15. | 04.55-05.00 | 68.5 | 42.3 | 71.5 | 41.3 | 30.2 |
| | 05.00-05.05 | 68.5 | 42.7 | 71.5 | 41.3 | 30.2 |
| | 05.05-05.10 | 68.1 | 41.7 | 71.1 | 41.1 | 30.0 |
| | 05.10-05.15 | 68.1 | 41.9 | 71.1 | 41.3 | 29.8 |
| | 05.15-05.20 | 68.0 | 42.1 | 71.0 | 41.0 | 30.0 |
| | 05.20-05.25 | 68.0 | 41.8 | 71.0 | 40.5 | 30.5 |
| | 05.25-05.30 | 67.9 | 42.1 | 70.9 | 40.4 | 30.5 |
| | 05.30-05.35 | 67.8 | 42.1 | 70.8 | 41.0 | 29.8 |
| | 05.35-05.40 | 67.8 | 43.6 | 70.8 | 41.8 | 29.0 |
| | 05.40-05.45 | 67.9 | 42.2 | 70.9 | 41.2 | 29.7 |
| | 05.45-05.50 | 68.0 | 41.8 | 71.0 | 41.3 | 29.7 |
| 16. | 05.50-05.55 | 68.0 | 41.9 | 71.0 | 41.3 | 29.7 |
| | 05.55-06.00 | 67.9 | 42.1 | 70.9 | 41.4 | 29.5 |
| | 06.00-07.00 | 67.7 | 48.5 | 67.6 | 45.7 | 21.9 |
| | 07.00-08.00 | 67.7 | 46.1 | 67.7 | 42.9 | 24.8 |
| | 08.00-09.00 | 67.7 | 44.2 | 67.7 | 42.0 | 25.7 |
| | 09.00-10.00 | 67.8 | 45.0 | 67.8 | 43.0 | 24.8 |
| | 10.00-11.00 | 67.5 | 46.1 | 67.5 | 43.1 | 24.4 |
| | 11.00-12.00 | 67.5 | 47.1 | 67.5 | 44.3 | 23.2 |
| | 12.00-13.00 | 67.5 | 47.8 | 67.5 | 45.0 | 22.5 |
| | 13.00-14.00 | 67.5 | 51.6 | 67.4 | 49.4 | 18.0 |
| | 14.00-15.00 | 67.5 | 54.0 | 67.3 | 42.5 | 24.8 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150
Job No. : S660183/June

Report No. : 1646/2023/19-42
Report Date : June 13, 2023
Sampling Date : April 19-26 & June 4-5, 2023
Type of Sample : เสียงรบกวน

(19/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสีแยกเขาหิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 67.6 | 51.2 | 67.5 | 41.7 | 25.8 |
| 2. | 16.00-17.00 | 67.6 | 50.8 | 67.5 | 41.7 | 25.8 |
| 3. | 17.00-18.00 | 67.7 | 49.5 | 67.6 | 45.8 | 21.8 |
| 4. | 18.00-19.00 | 67.7 | 50.3 | 67.6 | 46.0 | 21.6 |
| 5. | 19.00-20.00 | 67.7 | 50.1 | 67.6 | 46.2 | 21.4 |
| 6. | 20.00-21.00 | 67.8 | 49.7 | 67.7 | 45.4 | 22.3 |
| 7. | 21.00-22.00 | 67.8 | 48.8 | 67.7 | 45.6 | 22.1 |
| 8. | 22.00-22.05 | 68.4 | 48.6 | 71.4 | 45.9 | 25.5 |
| | 22.05-22.10 | 68.1 | 47.5 | 71.1 | 45.2 | 25.9 |
| | 22.10-22.15 | 68.0 | 48.6 | 70.9 | 46.2 | 24.7 |
| | 22.15-22.20 | 68.1 | 47.7 | 71.1 | 45.7 | 25.4 |
| | 22.20-22.25 | 68.0 | 49.1 | 70.9 | 45.6 | 25.3 |
| | 22.25-22.30 | 68.0 | 49.0 | 70.9 | 45.5 | 25.4 |
| | 22.30-22.35 | 68.0 | 47.3 | 71.0 | 44.9 | 26.1 |
| | 22.35-22.40 | 68.0 | 48.9 | 70.9 | 46.4 | 24.5 |
| | 22.40-22.45 | 67.9 | 49.1 | 70.8 | 46.0 | 24.8 |
| | 22.45-22.50 | 67.9 | 48.7 | 70.8 | 46.1 | 24.7 |
| | 22.50-22.55 | 67.9 | 48.9 | 70.8 | 45.2 | 25.6 |
| | 22.55-23.00 | 67.9 | 47.7 | 70.9 | 44.7 | 26.2 |
| 9. | 23.00-23.05 | 67.9 | 48.3 | 70.9 | 45.2 | 25.7 |
| | 23.05-23.10 | 67.9 | 48.6 | 70.8 | 44.7 | 26.1 |
| | 23.10-23.15 | 67.8 | 50.3 | 70.7 | 46.1 | 24.6 |
| | 23.15-23.20 | 67.8 | 48.5 | 70.7 | 45.1 | 25.6 |
| | 23.20-23.25 | 67.8 | 49.5 | 70.7 | 45.6 | 25.1 |
| | 23.25-23.30 | 67.7 | 49.1 | 70.6 | 44.7 | 25.9 |
| | 23.30-23.35 | 67.7 | 40.1 | 70.7 | 37.5 | 33.2 |
| | 23.35-23.40 | 67.8 | 43.3 | 70.8 | 37.5 | 33.3 |
| | 23.40-23.45 | 67.8 | 49.0 | 70.7 | 37.5 | 33.2 |
| | 23.45-23.50 | 67.9 | 42.6 | 70.9 | 37.5 | 33.4 |
| | 23.50-23.55 | 67.9 | 40.4 | 70.9 | 37.5 | 33.4 |
| | 23.55-00.00 | 67.8 | 42.9 | 70.8 | 37.5 | 33.3 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(19/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสีแยกเขาตื้น | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 67.8 | 53.1 | 70.7 | 37.5 | 33.2 |
| | 00.05-00.10 | 67.9 | 45.1 | 70.9 | 37.5 | 33.4 |
| | 00.10-00.15 | 67.9 | 45.3 | 70.9 | 37.5 | 33.4 |
| | 00.15-00.20 | 67.9 | 47.7 | 70.9 | 37.5 | 33.4 |
| | 00.20-00.25 | 67.9 | 40.9 | 70.9 | 37.5 | 33.4 |
| | 00.25-00.30 | 68.0 | 53.9 | 70.8 | 37.5 | 33.3 |
| | 00.30-00.35 | 68.0 | 41.9 | 71.0 | 37.5 | 33.5 |
| | 00.35-00.40 | 68.0 | 43.8 | 71.0 | 37.5 | 33.5 |
| | 00.40-00.45 | 68.0 | 40.5 | 71.0 | 37.5 | 33.5 |
| | 00.45-00.50 | 68.0 | 42.4 | 71.0 | 37.5 | 33.5 |
| | 00.50-00.55 | 68.0 | 40.8 | 71.0 | 38.9 | 32.1 |
| 11. | 00.55-01.00 | 67.9 | 41.3 | 70.9 | 38.6 | 32.3 |
| | 01.00-01.05 | 67.8 | 41.4 | 70.8 | 39.4 | 31.4 |
| | 01.05-01.10 | 67.8 | 40.9 | 70.8 | 39.0 | 31.8 |
| | 01.10-01.15 | 67.8 | 41.9 | 70.8 | 38.9 | 31.9 |
| | 01.15-01.20 | 67.7 | 43.7 | 70.7 | 38.8 | 31.9 |
| | 01.20-01.25 | 67.7 | 42.4 | 70.7 | 38.0 | 32.7 |
| | 01.25-01.30 | 67.6 | 40.9 | 70.6 | 38.5 | 32.1 |
| | 01.30-01.35 | 67.5 | 44.3 | 70.5 | 38.5 | 32.0 |
| | 01.35-01.40 | 67.6 | 40.9 | 70.6 | 39.4 | 31.2 |
| | 01.40-01.45 | 67.6 | 43.4 | 70.6 | 37.8 | 32.8 |
| | 01.45-01.50 | 67.5 | 44.9 | 70.5 | 39.7 | 30.8 |
| 12. | 01.50-01.55 | 67.5 | 43.1 | 70.5 | 39.9 | 30.6 |
| | 01.55-02.00 | 67.6 | 41.3 | 70.6 | 39.3 | 31.3 |
| | 02.00-02.05 | 67.6 | 41.8 | 70.6 | 39.2 | 31.4 |
| | 02.05-02.10 | 67.5 | 43.3 | 70.5 | 40.9 | 29.6 |
| | 02.10-02.15 | 67.6 | 48.7 | 70.5 | 47.4 | 23.1 |
| | 02.15-02.20 | 67.7 | 49.2 | 70.6 | 47.6 | 23.0 |
| | 02.20-02.25 | 67.7 | 50.4 | 70.6 | 48.0 | 22.6 |
| | 02.25-02.30 | 67.8 | 49.5 | 70.7 | 47.7 | 23.0 |
| | 02.30-02.35 | 67.7 | 48.9 | 70.6 | 47.4 | 23.2 |
| | 02.35-02.40 | 67.8 | 48.6 | 70.7 | 47.3 | 23.4 |
| | 02.40-02.45 | 67.7 | 49.2 | 70.6 | 47.4 | 23.2 |
| 13. | 02.45-02.50 | 67.8 | 51.2 | 70.7 | 49.4 | 21.3 |
| | 02.50-02.55 | 67.7 | 49.8 | 70.6 | 44.2 | 26.4 |
| | 02.55-03.00 | 67.8 | 50.4 | 70.7 | 43.5 | 27.2 |
| | 03.00-03.05 | 67.8 | 47.7 | 70.8 | 42.1 | 28.7 |
| | 03.05-03.10 | 67.8 | 45.3 | 70.8 | 41.0 | 29.8 |
| | 03.10-03.15 | 67.9 | 43.8 | 70.9 | 41.8 | 29.1 |
| | 03.15-03.20 | 67.9 | 43.4 | 70.9 | 41.0 | 29.9 |
| | 03.20-03.25 | 67.9 | 62.2 | 69.5 | 39.9 | 29.6 |
| | 03.25-03.30 | 67.9 | 49.5 | 70.8 | 40.5 | 30.3 |
| | 03.30-03.35 | 67.9 | 63.3 | 69.1 | 44.5 | 24.6 |
| | 03.35-03.40 | 67.8 | 57.4 | 70.4 | 42.7 | 27.7 |
| Standard ⁽¹⁾⁽²⁾ | 03.40-03.45 | 67.7 | 45.3 | 70.7 | 41.5 | 29.2 |
| | 03.45-03.50 | 67.7 | 42.7 | 70.7 | 41.7 | 29.0 |
| | 03.50-03.55 | 67.7 | 41.9 | 70.7 | 40.9 | 29.8 |
| | 03.55-04.00 | 67.9 | 42.1 | 70.9 | 41.4 | 29.5 |
| | | | | | | |
| | | | | | | |



TEST REPORT

(19/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสีแยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 67.9 | 42.9 | 70.9 | 41.3 | 29.6 |
| | 04.05-04.10 | 67.9 | 42.1 | 70.9 | 41.2 | 29.7 |
| | 04.10-04.15 | 67.9 | 44.4 | 70.9 | 41.6 | 29.3 |
| | 04.15-04.20 | 68.0 | 42.1 | 71.0 | 41.5 | 29.5 |
| | 04.20-04.25 | 68.0 | 42.1 | 71.0 | 41.5 | 29.5 |
| | 04.25-04.30 | 68.1 | 43.0 | 71.1 | 41.7 | 29.4 |
| | 04.30-04.35 | 68.1 | 42.8 | 71.1 | 41.9 | 29.2 |
| | 04.35-04.40 | 68.1 | 42.4 | 71.1 | 41.7 | 29.4 |
| | 04.40-04.45 | 68.1 | 42.2 | 71.1 | 41.3 | 29.8 |
| | 04.45-04.50 | 68.1 | 42.1 | 71.1 | 41.4 | 29.7 |
| | 04.50-04.55 | 68.1 | 41.9 | 71.1 | 41.4 | 29.7 |
| 15. | 04.55-05.00 | 68.2 | 42.3 | 71.2 | 41.3 | 29.9 |
| | 05.00-05.05 | 68.2 | 42.7 | 71.2 | 41.3 | 29.9 |
| | 05.05-05.10 | 68.2 | 41.7 | 71.2 | 41.1 | 30.1 |
| | 05.10-05.15 | 68.1 | 41.9 | 71.1 | 41.3 | 29.8 |
| | 05.15-05.20 | 68.1 | 42.1 | 71.1 | 41.0 | 30.1 |
| | 05.20-05.25 | 68.1 | 41.8 | 71.1 | 40.5 | 30.6 |
| | 05.25-05.30 | 68.2 | 42.1 | 71.2 | 40.4 | 30.8 |
| | 05.30-05.35 | 68.2 | 42.1 | 71.2 | 41.0 | 30.2 |
| | 05.35-05.40 | 68.1 | 43.6 | 71.1 | 41.8 | 29.3 |
| | 05.40-05.45 | 68.1 | 42.2 | 71.1 | 41.2 | 29.9 |
| | 05.45-05.50 | 68.1 | 41.8 | 71.1 | 41.3 | 29.8 |
| 16. | 05.50-05.55 | 68.1 | 41.9 | 71.1 | 41.3 | 29.8 |
| | 05.55-06.00 | 68.0 | 42.1 | 71.0 | 41.4 | 29.6 |
| | 06.00-07.00 | 68.0 | 48.5 | 68.0 | 45.7 | 22.3 |
| | 07.00-08.00 | 68.0 | 46.1 | 68.0 | 42.9 | 25.1 |
| | 08.00-09.00 | 68.2 | 44.2 | 68.2 | 42.0 | 26.2 |
| | 09.00-10.00 | 67.9 | 45.0 | 67.9 | 43.0 | 24.9 |
| | 10.00-11.00 | 68.6 | 46.1 | 68.6 | 43.1 | 25.5 |
| | 11.00-12.00 | 68.9 | 47.1 | 68.9 | 44.3 | 24.6 |
| | 12.00-13.00 | 68.9 | 47.8 | 68.9 | 45.0 | 23.9 |
| | 13.00-14.00 | 68.9 | 51.6 | 68.8 | 49.4 | 19.4 |
| | 14.00-15.00 | 68.8 | 54.0 | 68.7 | 42.5 | 26.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/20-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(20/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสีแยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 68.8 | 51.2 | 68.7 | 41.7 | 27.0 |
| 2. | 16.00-17.00 | 68.8 | 50.8 | 68.7 | 41.7 | 27.0 |
| 3. | 17.00-18.00 | 68.7 | 49.5 | 68.6 | 45.8 | 22.8 |
| 4. | 18.00-19.00 | 68.6 | 50.3 | 68.5 | 46.0 | 22.5 |
| 5. | 19.00-20.00 | 68.6 | 50.1 | 68.5 | 46.2 | 22.3 |
| 6. | 20.00-21.00 | 68.8 | 49.7 | 68.7 | 45.4 | 23.3 |
| 7. | 21.00-22.00 | 68.9 | 48.8 | 68.9 | 45.6 | 23.3 |
| 8. | 22.00-22.05 | 69.1 | 48.6 | 72.1 | 45.9 | 26.2 |
| | 22.05-22.10 | 69.0 | 47.5 | 72.0 | 45.2 | 26.8 |
| | 22.10-22.15 | 68.7 | 48.6 | 71.7 | 46.2 | 25.5 |
| | 22.15-22.20 | 68.9 | 47.7 | 71.9 | 45.7 | 26.2 |
| | 22.20-22.25 | 69.0 | 49.1 | 72.0 | 45.6 | 26.4 |
| | 22.25-22.30 | 68.9 | 49.0 | 71.9 | 45.5 | 26.4 |
| | 22.30-22.35 | 68.9 | 47.3 | 71.9 | 44.9 | 27.0 |
| | 22.35-22.40 | 68.9 | 48.9 | 71.9 | 46.4 | 25.5 |
| | 22.40-22.45 | 68.9 | 49.1 | 71.9 | 46.0 | 25.9 |
| | 22.45-22.50 | 68.8 | 48.7 | 71.8 | 46.1 | 25.7 |
| | 22.50-22.55 | 68.8 | 48.9 | 71.8 | 45.2 | 26.6 |
| | 22.55-23.00 | 68.9 | 47.7 | 71.9 | 44.7 | 27.2 |
| 9. | 23.00-23.05 | 68.9 | 48.3 | 71.9 | 45.2 | 26.7 |
| | 23.05-23.10 | 68.9 | 48.6 | 71.9 | 44.7 | 27.2 |
| | 23.10-23.15 | 69.1 | 50.3 | 72.0 | 46.1 | 25.9 |
| | 23.15-23.20 | 68.9 | 48.5 | 71.9 | 45.1 | 26.8 |
| | 23.20-23.25 | 68.8 | 49.5 | 71.7 | 45.6 | 26.1 |
| | 23.25-23.30 | 68.8 | 49.1 | 71.8 | 44.7 | 27.1 |
| | 23.30-23.35 | 68.8 | 40.1 | 71.8 | 37.5 | 34.3 |
| | 23.35-23.40 | 68.7 | 43.3 | 71.7 | 37.5 | 34.2 |
| | 23.40-23.45 | 68.8 | 49.0 | 71.8 | 37.5 | 34.3 |
| | 23.45-23.50 | 68.7 | 42.6 | 71.7 | 37.5 | 34.2 |
| | 23.50-23.55 | 68.8 | 40.4 | 71.8 | 37.5 | 34.3 |
| | 23.55-00.00 | 68.9 | 42.9 | 71.9 | 37.5 | 34.4 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(20/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 68.9 | 53.1 | 71.8 | 37.5 | 34.3 |
| | 00.05-00.10 | 68.9 | 45.1 | 71.9 | 37.5 | 34.4 |
| | 00.10-00.15 | 68.9 | 45.3 | 71.9 | 37.5 | 34.4 |
| | 00.15-00.20 | 69.0 | 47.7 | 72.0 | 37.5 | 34.5 |
| | 00.20-00.25 | 69.2 | 40.9 | 72.2 | 37.5 | 34.7 |
| | 00.25-00.30 | 69.1 | 53.9 | 72.0 | 37.5 | 34.5 |
| | 00.30-00.35 | 69.1 | 41.9 | 72.1 | 37.5 | 34.6 |
| | 00.35-00.40 | 69.2 | 43.8 | 72.2 | 37.5 | 34.7 |
| | 00.40-00.45 | 69.0 | 40.5 | 72.0 | 37.5 | 34.5 |
| | 00.45-00.50 | 69.1 | 42.4 | 72.1 | 37.5 | 34.6 |
| | 00.50-00.55 | 69.0 | 40.8 | 72.0 | 38.9 | 33.1 |
| 11. | 00.55-01.00 | 69.2 | 41.3 | 72.2 | 38.6 | 33.6 |
| | 01.00-01.05 | 69.0 | 41.4 | 72.0 | 39.4 | 32.6 |
| | 01.05-01.10 | 69.0 | 40.9 | 72.0 | 39.0 | 33.0 |
| | 01.10-01.15 | 69.0 | 41.9 | 72.0 | 38.9 | 33.1 |
| | 01.15-01.20 | 69.0 | 43.7 | 72.0 | 38.8 | 33.2 |
| | 01.20-01.25 | 69.1 | 42.4 | 72.1 | 38.0 | 34.1 |
| | 01.25-01.30 | 69.0 | 40.9 | 72.0 | 38.5 | 33.5 |
| | 01.30-01.35 | 68.9 | 44.3 | 71.9 | 38.5 | 33.4 |
| | 01.35-01.40 | 68.8 | 40.9 | 71.8 | 39.4 | 32.4 |
| | 01.40-01.45 | 68.9 | 43.4 | 71.9 | 37.8 | 34.1 |
| | 01.45-01.50 | 68.6 | 44.9 | 71.6 | 39.7 | 31.9 |
| 12. | 01.50-01.55 | 68.5 | 43.1 | 71.5 | 39.9 | 31.6 |
| | 01.55-02.00 | 68.4 | 41.3 | 71.4 | 39.3 | 32.1 |
| | 02.00-02.05 | 68.5 | 41.8 | 71.5 | 39.2 | 32.3 |
| | 02.05-02.10 | 68.4 | 43.3 | 71.4 | 40.9 | 30.5 |
| | 02.10-02.15 | 68.5 | 48.7 | 71.5 | 47.4 | 24.1 |
| | 02.15-02.20 | 68.4 | 49.2 | 71.3 | 47.6 | 23.7 |
| | 02.20-02.25 | 68.5 | 50.4 | 71.4 | 48.0 | 23.4 |
| | 02.25-02.30 | 68.4 | 49.5 | 71.3 | 47.7 | 23.6 |
| | 02.30-02.35 | 68.5 | 48.9 | 71.5 | 47.4 | 24.1 |
| | 02.35-02.40 | 68.4 | 48.6 | 71.4 | 47.3 | 24.1 |
| | 02.40-02.45 | 68.4 | 49.2 | 71.3 | 47.4 | 23.9 |
| 13. | 02.45-02.50 | 68.6 | 51.2 | 71.5 | 49.4 | 22.1 |
| | 02.50-02.55 | 68.7 | 49.8 | 71.6 | 44.2 | 27.4 |
| | 02.55-03.00 | 68.8 | 50.4 | 71.7 | 43.5 | 28.2 |
| | 03.00-03.05 | 68.6 | 47.7 | 71.6 | 42.1 | 29.5 |
| | 03.05-03.10 | 68.7 | 45.3 | 71.7 | 41.0 | 30.7 |
| | 03.10-03.15 | 68.5 | 43.8 | 71.5 | 41.8 | 29.7 |
| | 03.15-03.20 | 68.6 | 43.4 | 71.6 | 41.0 | 30.6 |
| | 03.20-03.25 | 68.6 | 62.2 | 70.5 | 39.9 | 30.6 |
| | 03.25-03.30 | 68.8 | 49.5 | 71.7 | 40.5 | 31.2 |
| | 03.30-03.35 | 68.7 | 63.3 | 70.2 | 44.5 | 25.7 |
| | 03.35-03.40 | 68.7 | 57.4 | 71.4 | 42.7 | 28.7 |
| | 03.40-03.45 | 68.9 | 45.3 | 71.9 | 41.5 | 30.4 |
| | 03.45-03.50 | 68.8 | 42.7 | 71.8 | 41.7 | 30.1 |
| | 03.50-03.55 | 68.8 | 41.9 | 71.8 | 40.9 | 30.9 |
| | 03.55-04.00 | 68.8 | 42.1 | 71.8 | 41.4 | 30.4 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(20/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสีแยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 68.7 | 42.9 | 71.7 | 41.3 | 30.4 |
| | 04.05-04.10 | 68.7 | 42.1 | 71.7 | 41.2 | 30.5 |
| | 04.10-04.15 | 68.7 | 44.4 | 71.7 | 41.6 | 30.1 |
| | 04.15-04.20 | 68.6 | 42.1 | 71.6 | 41.5 | 30.1 |
| | 04.20-04.25 | 68.4 | 42.1 | 71.4 | 41.5 | 29.9 |
| | 04.25-04.30 | 68.6 | 43.0 | 71.6 | 41.7 | 29.9 |
| | 04.30-04.35 | 68.5 | 42.8 | 71.5 | 41.9 | 29.6 |
| | 04.35-04.40 | 68.6 | 42.4 | 71.6 | 41.7 | 29.9 |
| | 04.40-04.45 | 68.6 | 42.2 | 71.6 | 41.3 | 30.3 |
| | 04.45-04.50 | 68.9 | 42.1 | 71.9 | 41.4 | 30.5 |
| | 04.50-04.55 | 69.0 | 41.9 | 72.0 | 41.4 | 30.6 |
| 15. | 04.55-05.00 | 68.8 | 42.3 | 71.8 | 41.3 | 30.5 |
| | 05.00-05.05 | 68.8 | 42.7 | 71.8 | 41.3 | 30.5 |
| | 05.05-05.10 | 68.8 | 41.7 | 71.8 | 41.1 | 30.7 |
| | 05.10-05.15 | 68.9 | 41.9 | 71.9 | 41.3 | 30.6 |
| | 05.15-05.20 | 68.9 | 42.1 | 71.9 | 41.0 | 30.9 |
| | 05.20-05.25 | 68.9 | 41.8 | 71.9 | 40.5 | 31.4 |
| | 05.25-05.30 | 68.9 | 42.1 | 71.9 | 40.4 | 31.5 |
| | 05.30-05.35 | 68.9 | 42.1 | 71.9 | 41.0 | 30.9 |
| | 05.35-05.40 | 68.9 | 43.6 | 71.9 | 41.8 | 30.1 |
| | 05.40-05.45 | 69.0 | 42.2 | 72.0 | 41.2 | 30.8 |
| | 05.45-05.50 | 69.0 | 41.8 | 72.0 | 41.3 | 30.7 |
| 16. | 05.50-05.55 | 68.9 | 41.9 | 71.9 | 41.3 | 30.6 |
| | 05.55-06.00 | 68.9 | 42.1 | 71.9 | 41.4 | 30.5 |
| | 06.00-07.00 | 69.0 | 48.5 | 69.0 | 45.7 | 23.3 |
| | 07.00-08.00 | 69.2 | 46.1 | 69.2 | 42.9 | 26.3 |
| | 08.00-09.00 | 69.0 | 44.2 | 69.0 | 42.0 | 27.0 |
| | 09.00-10.00 | 68.9 | 45.0 | 68.9 | 43.0 | 25.9 |
| | 10.00-11.00 | 68.8 | 46.1 | 68.8 | 43.1 | 25.7 |
| | 11.00-12.00 | 67.8 | 47.1 | 67.8 | 44.3 | 23.5 |
| | 12.00-13.00 | 67.7 | 47.8 | 67.7 | 45.0 | 22.7 |
| | 13.00-14.00 | 67.6 | 51.6 | 67.5 | 49.4 | 18.1 |
| | 14.00-15.00 | 68.0 | 54.0 | 67.8 | 42.5 | 25.3 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/21-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66 150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(21/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 68.2 | 51.2 | 68.1 | 41.7 | 26.4 |
| 2. | 16.00-17.00 | 68.4 | 50.8 | 68.3 | 41.7 | 26.6 |
| 3. | 17.00-18.00 | 68.5 | 49.5 | 68.4 | 45.8 | 22.6 |
| 4. | 18.00-19.00 | 68.5 | 50.3 | 68.4 | 46.0 | 22.4 |
| 5. | 19.00-20.00 | 68.5 | 50.1 | 68.4 | 46.2 | 22.2 |
| 6. | 20.00-21.00 | 68.8 | 49.7 | 68.7 | 45.4 | 23.3 |
| 7. | 21.00-22.00 | 68.7 | 48.8 | 68.7 | 45.6 | 23.1 |
| 8. | 22.00-22.05 | 68.6 | 48.6 | 71.6 | 45.9 | 25.7 |
| | 22.05-22.10 | 68.6 | 47.5 | 71.6 | 45.2 | 26.4 |
| | 22.10-22.15 | 68.6 | 48.6 | 71.6 | 46.2 | 25.4 |
| | 22.15-22.20 | 68.6 | 47.7 | 71.6 | 45.7 | 25.9 |
| | 22.20-22.25 | 68.6 | 49.1 | 71.6 | 45.6 | 26.0 |
| | 22.25-22.30 | 68.7 | 49.0 | 71.7 | 45.5 | 26.2 |
| | 22.30-22.35 | 68.6 | 47.3 | 71.6 | 44.9 | 26.7 |
| | 22.35-22.40 | 68.6 | 48.9 | 71.6 | 46.4 | 25.2 |
| | 22.40-22.45 | 68.7 | 49.1 | 71.7 | 46.0 | 25.7 |
| | 22.45-22.50 | 68.7 | 48.7 | 71.7 | 46.1 | 25.6 |
| | 22.50-22.55 | 68.7 | 48.9 | 71.7 | 45.2 | 26.5 |
| | 22.55-23.00 | 68.7 | 47.7 | 71.7 | 44.7 | 27.0 |
| 9. | 23.00-23.05 | 68.7 | 48.3 | 71.7 | 45.2 | 26.5 |
| | 23.05-23.10 | 68.6 | 48.6 | 71.6 | 44.7 | 26.9 |
| | 23.10-23.15 | 68.6 | 50.3 | 71.5 | 46.1 | 25.4 |
| | 23.15-23.20 | 68.7 | 48.5 | 71.7 | 45.1 | 26.6 |
| | 23.20-23.25 | 68.7 | 49.5 | 71.6 | 45.6 | 26.0 |
| | 23.25-23.30 | 68.6 | 49.1 | 71.6 | 44.7 | 26.9 |
| | 23.30-23.35 | 68.6 | 40.1 | 71.6 | 37.5 | 34.1 |
| | 23.35-23.40 | 68.4 | 43.3 | 71.4 | 37.5 | 33.9 |
| | 23.40-23.45 | 68.6 | 49.0 | 71.6 | 37.5 | 34.1 |
| | 23.45-23.50 | 68.6 | 42.6 | 71.6 | 37.5 | 34.1 |
| | 23.50-23.55 | 68.6 | 40.4 | 71.6 | 37.5 | 34.1 |
| | 23.55-00.00 | 68.6 | 42.9 | 71.6 | 37.5 | 34.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(21/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 68.6 | 53.1 | 71.5 | 37.5 | 34.0 |
| | 00.05-00.10 | 68.6 | 45.1 | 71.6 | 37.5 | 34.1 |
| | 00.10-00.15 | 68.6 | 45.3 | 71.6 | 37.5 | 34.1 |
| | 00.15-00.20 | 68.6 | 47.7 | 71.6 | 37.5 | 34.1 |
| | 00.20-00.25 | 68.6 | 40.9 | 71.6 | 37.5 | 34.1 |
| | 00.25-00.30 | 68.7 | 53.9 | 71.6 | 37.5 | 34.1 |
| | 00.30-00.35 | 68.7 | 41.9 | 71.7 | 37.5 | 34.2 |
| | 00.35-00.40 | 68.6 | 43.8 | 71.6 | 37.5 | 34.1 |
| | 00.40-00.45 | 68.7 | 40.5 | 71.7 | 37.5 | 34.2 |
| | 00.45-00.50 | 68.6 | 42.4 | 71.6 | 37.5 | 34.1 |
| | 00.50-00.55 | 68.5 | 40.8 | 71.5 | 38.9 | 32.6 |
| 11. | 00.55-01.00 | 68.5 | 41.3 | 71.5 | 38.6 | 32.9 |
| | 01.00-01.05 | 68.5 | 41.4 | 71.5 | 39.4 | 32.1 |
| | 01.05-01.10 | 68.5 | 40.9 | 71.5 | 39.0 | 32.5 |
| | 01.10-01.15 | 68.6 | 41.9 | 71.6 | 38.9 | 32.7 |
| | 01.15-01.20 | 68.6 | 43.7 | 71.6 | 38.8 | 32.8 |
| | 01.20-01.25 | 68.5 | 42.4 | 71.5 | 38.0 | 33.5 |
| | 01.25-01.30 | 68.6 | 40.9 | 71.6 | 38.5 | 33.1 |
| | 01.30-01.35 | 68.6 | 44.3 | 71.6 | 38.5 | 33.1 |
| | 01.35-01.40 | 68.5 | 40.9 | 71.5 | 39.4 | 32.1 |
| | 01.40-01.45 | 68.4 | 43.4 | 71.4 | 37.8 | 33.6 |
| | 01.45-01.50 | 68.6 | 44.9 | 71.6 | 39.7 | 31.9 |
| 12. | 01.50-01.55 | 68.5 | 43.1 | 71.5 | 39.9 | 31.6 |
| | 01.55-02.00 | 68.5 | 41.3 | 71.5 | 39.3 | 32.2 |
| | 02.00-02.05 | 68.5 | 41.8 | 71.5 | 39.2 | 32.3 |
| | 02.05-02.10 | 68.6 | 43.3 | 71.6 | 40.9 | 30.7 |
| | 02.10-02.15 | 68.6 | 48.7 | 71.6 | 47.4 | 24.2 |
| | 02.15-02.20 | 68.6 | 49.2 | 71.5 | 47.6 | 23.9 |
| | 02.20-02.25 | 68.6 | 50.4 | 71.5 | 48.0 | 23.5 |
| | 02.25-02.30 | 68.6 | 49.5 | 71.5 | 47.7 | 23.8 |
| | 02.30-02.35 | 68.6 | 48.9 | 71.6 | 47.4 | 24.2 |
| | 02.35-02.40 | 68.6 | 48.6 | 71.6 | 47.3 | 24.3 |
| | 02.40-02.45 | 68.5 | 49.2 | 71.4 | 47.4 | 24.0 |
| 13. | 02.45-02.50 | 68.6 | 51.2 | 71.5 | 49.4 | 22.1 |
| | 02.50-02.55 | 68.6 | 49.8 | 71.5 | 44.2 | 27.3 |
| | 02.55-03.00 | 68.6 | 50.4 | 71.5 | 43.5 | 28.0 |
| | 03.00-03.05 | 68.5 | 47.7 | 71.5 | 42.1 | 29.4 |
| | 03.05-03.10 | 68.7 | 45.3 | 71.7 | 41.0 | 30.7 |
| | 03.10-03.15 | 68.6 | 43.8 | 71.6 | 41.8 | 29.8 |
| | 03.15-03.20 | 68.5 | 43.4 | 71.5 | 41.0 | 30.5 |
| | 03.20-03.25 | 68.6 | 62.2 | 70.5 | 39.9 | 30.6 |
| | 03.25-03.30 | 68.6 | 49.5 | 71.5 | 40.5 | 31.0 |
| | 03.30-03.35 | 68.5 | 63.3 | 69.9 | 44.5 | 25.4 |
| | 03.35-03.40 | 68.6 | 57.4 | 71.3 | 42.7 | 28.6 |
| 13. | 03.40-03.45 | 68.6 | 45.3 | 71.6 | 41.5 | 30.1 |
| | 03.45-03.50 | 68.7 | 42.7 | 71.7 | 41.7 | 30.0 |
| | 03.50-03.55 | 68.6 | 41.9 | 71.6 | 40.9 | 30.7 |
| | 03.55-04.00 | 68.6 | 42.1 | 71.6 | 41.4 | 30.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(21/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านสี่แยกเขาดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 68.6 | 42.9 | 71.6 | 41.3 | 30.3 |
| | 04.05-04.10 | 68.6 | 42.1 | 71.6 | 41.2 | 30.4 |
| | 04.10-04.15 | 68.6 | 44.4 | 71.6 | 41.6 | 30.0 |
| | 04.15-04.20 | 68.6 | 42.1 | 71.6 | 41.5 | 30.1 |
| | 04.20-04.25 | 68.6 | 42.1 | 71.6 | 41.5 | 30.1 |
| | 04.25-04.30 | 68.6 | 43.0 | 71.6 | 41.7 | 29.9 |
| | 04.30-04.35 | 68.6 | 42.8 | 71.6 | 41.9 | 29.7 |
| | 04.35-04.40 | 68.6 | 42.4 | 71.6 | 41.7 | 29.9 |
| | 04.40-04.45 | 68.5 | 42.2 | 71.5 | 41.3 | 30.2 |
| | 04.45-04.50 | 68.6 | 42.1 | 71.6 | 41.4 | 30.2 |
| | 04.50-04.55 | 68.5 | 41.9 | 71.5 | 41.4 | 30.1 |
| | 04.55-05.00 | 68.4 | 42.3 | 71.4 | 41.3 | 30.1 |
| 15. | 05.00-05.05 | 68.6 | 42.7 | 71.6 | 41.3 | 30.3 |
| | 05.05-05.10 | 68.3 | 41.7 | 71.3 | 41.1 | 30.2 |
| | 05.10-05.15 | 68.4 | 41.9 | 71.4 | 41.3 | 30.1 |
| | 05.15-05.20 | 68.5 | 42.1 | 71.5 | 41.0 | 30.5 |
| | 05.20-05.25 | 68.4 | 41.8 | 71.4 | 40.5 | 30.9 |
| | 05.25-05.30 | 68.5 | 42.1 | 71.5 | 40.4 | 31.1 |
| | 05.30-05.35 | 68.6 | 42.1 | 71.6 | 41.0 | 30.6 |
| | 05.35-05.40 | 68.8 | 43.6 | 71.8 | 41.8 | 30.0 |
| | 05.40-05.45 | 68.5 | 42.2 | 71.5 | 41.2 | 30.3 |
| | 05.45-05.50 | 68.4 | 41.8 | 71.4 | 41.3 | 30.1 |
| | 05.50-05.55 | 68.5 | 41.9 | 71.5 | 41.3 | 30.2 |
| | 05.55-06.00 | 68.4 | 42.1 | 71.4 | 41.4 | 30.0 |
| 16. | 06.00-07.00 | 68.5 | 48.5 | 68.5 | 45.7 | 22.8 |
| 17. | 07.00-08.00 | 68.6 | 46.1 | 68.6 | 42.9 | 25.7 |
| 18. | 08.00-09.00 | 68.2 | 44.2 | 68.2 | 42.0 | 26.2 |
| 19. | 09.00-10.00 | 68.2 | 45.0 | 68.2 | 43.0 | 25.2 |
| 20. | 10.00-11.00 | 68.3 | 46.1 | 68.3 | 43.1 | 25.2 |
| 21. | 11.00-12.00 | 68.3 | 47.1 | 68.3 | 44.3 | 24.0 |
| 22. | 12.00-13.00 | 68.2 | 47.8 | 68.2 | 45.0 | 23.2 |
| 23. | 13.00-14.00 | 68.1 | 51.6 | 68.0 | 49.4 | 18.6 |
| 24. | 14.00-15.00 | 68.1 | 54.0 | 67.9 | 42.5 | 25.4 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL

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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/22-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(22/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระถิ่น | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 67.3 | 52.6 | 67.2 | 45.3 | 21.9 |
| 2. | 16.00-17.00 | 67.3 | 51.8 | 67.2 | 45.0 | 22.2 |
| 3. | 17.00-18.00 | 67.3 | 54.3 | 67.1 | 44.9 | 22.2 |
| 4. | 18.00-19.00 | 67.2 | 55.6 | 66.9 | 52.8 | 14.1 |
| 5. | 19.00-20.00 | 67.4 | 55.5 | 67.1 | 38.7 | 28.4 |
| 6. | 20.00-21.00 | 67.0 | 50.3 | 66.9 | 39.5 | 27.4 |
| 7. | 21.00-22.00 | 67.2 | 43.5 | 67.2 | 38.2 | 29.0 |
| 8. | 22.00-22.05 | 67.1 | 40.2 | 70.1 | 37.5 | 32.6 |
| | 22.05-22.10 | 66.9 | 40.1 | 69.9 | 37.7 | 32.2 |
| | 22.10-22.15 | 67.0 | 40.5 | 70.0 | 38.6 | 31.4 |
| | 22.15-22.20 | 67.0 | 40.5 | 70.0 | 38.3 | 31.7 |
| | 22.20-22.25 | 67.0 | 43.6 | 70.0 | 37.7 | 32.3 |
| | 22.25-22.30 | 66.9 | 40.2 | 69.9 | 38.4 | 31.5 |
| | 22.30-22.35 | 66.9 | 40.4 | 69.9 | 38.5 | 31.4 |
| | 22.35-22.40 | 66.9 | 43.9 | 69.9 | 38.3 | 31.6 |
| | 22.40-22.45 | 67.0 | 41.2 | 70.0 | 38.1 | 31.9 |
| | 22.45-22.50 | 67.0 | 42.6 | 70.0 | 38.6 | 31.4 |
| | 22.50-22.55 | 67.0 | 41.2 | 70.0 | 39.6 | 30.4 |
| | 22.55-23.00 | 67.0 | 40.6 | 70.0 | 39.3 | 30.7 |
| | 23.00-23.05 | 67.1 | 41.3 | 70.1 | 39.5 | 30.6 |
| | 23.05-23.10 | 67.2 | 40.9 | 70.2 | 39.3 | 30.9 |
| | 23.10-23.15 | 67.1 | 41.0 | 70.1 | 39.3 | 30.8 |
| | 23.15-23.20 | 67.0 | 40.9 | 70.0 | 39.5 | 30.5 |
| | 23.20-23.25 | 67.1 | 40.4 | 70.1 | 39.5 | 30.6 |
| | 23.25-23.30 | 67.0 | 40.3 | 70.0 | 39.5 | 30.5 |
| | 23.30-23.35 | 67.0 | 41.1 | 70.0 | 39.7 | 30.3 |
| | 23.35-23.40 | 67.1 | 40.9 | 70.1 | 39.7 | 30.4 |
| 9. | 23.40-23.45 | 67.4 | 41.4 | 70.4 | 40.1 | 30.3 |
| | 23.45-23.50 | 67.4 | 42.1 | 70.4 | 41.0 | 29.4 |
| | 23.50-23.55 | 67.4 | 42.0 | 70.4 | 41.0 | 29.4 |
| | 23.55-00.00 | 67.5 | 42.1 | 70.5 | 40.9 | 29.6 |
| | | | | | | |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

• REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

• DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(22/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระถิ่น | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 67.8 | 41.7 | 70.8 | 40.7 | 30.1 |
| | 00.05-00.10 | 67.7 | 41.6 | 70.7 | 40.7 | 30.0 |
| | 00.10-00.15 | 67.7 | 41.2 | 70.7 | 40.2 | 30.5 |
| | 00.15-00.20 | 67.9 | 41.1 | 70.9 | 39.7 | 31.2 |
| | 00.20-00.25 | 67.6 | 40.8 | 70.6 | 39.7 | 30.9 |
| | 00.25-00.30 | 67.4 | 41.0 | 70.4 | 40.2 | 30.2 |
| | 00.30-00.35 | 67.3 | 40.5 | 70.3 | 39.5 | 30.8 |
| | 00.35-00.40 | 67.0 | 40.1 | 70.0 | 39.3 | 30.7 |
| | 00.40-00.45 | 67.0 | 40.2 | 70.0 | 39.3 | 30.7 |
| | 00.45-00.50 | 66.9 | 40.4 | 69.9 | 39.6 | 30.3 |
| | 00.50-00.55 | 67.0 | 43.5 | 70.0 | 38.6 | 31.4 |
| | 00.55-01.00 | 67.1 | 43.8 | 70.1 | 38.9 | 31.2 |
| 11. | 01.00-01.05 | 67.2 | 40.3 | 70.2 | 39.4 | 30.8 |
| | 01.05-01.10 | 67.3 | 40.3 | 70.3 | 39.5 | 30.8 |
| | 01.10-01.15 | 67.3 | 40.6 | 70.3 | 39.6 | 30.7 |
| | 01.15-01.20 | 67.4 | 41.1 | 70.4 | 39.9 | 30.5 |
| | 01.20-01.25 | 67.4 | 41.4 | 70.4 | 40.2 | 30.2 |
| | 01.25-01.30 | 67.4 | 42.2 | 70.4 | 40.1 | 30.3 |
| | 01.30-01.35 | 67.3 | 41.2 | 70.3 | 39.9 | 30.4 |
| | 01.35-01.40 | 67.4 | 41.1 | 70.4 | 40.1 | 30.3 |
| | 01.40-01.45 | 67.4 | 41.2 | 70.4 | 40.1 | 30.3 |
| | 01.45-01.50 | 67.4 | 41.0 | 70.4 | 39.9 | 30.5 |
| | 01.50-01.55 | 67.4 | 41.2 | 70.4 | 40.3 | 30.1 |
| | 01.55-02.00 | 67.3 | 40.8 | 70.3 | 39.9 | 30.4 |
| 12. | 02.00-02.05 | 67.3 | 41.1 | 70.3 | 40.1 | 30.2 |
| | 02.05-02.10 | 67.3 | 40.7 | 70.3 | 39.7 | 30.6 |
| | 02.10-02.15 | 67.3 | 41.4 | 70.3 | 40.3 | 30.0 |
| | 02.15-02.20 | 67.4 | 41.4 | 70.4 | 40.2 | 30.2 |
| | 02.20-02.25 | 67.4 | 41.0 | 70.4 | 39.9 | 30.5 |
| | 02.25-02.30 | 67.3 | 41.1 | 70.3 | 40.1 | 30.2 |
| | 02.30-02.35 | 67.3 | 41.0 | 70.3 | 40.0 | 30.3 |
| | 02.35-02.40 | 67.0 | 40.6 | 70.0 | 39.6 | 30.4 |
| | 02.40-02.45 | 66.9 | 41.0 | 69.9 | 39.8 | 30.1 |
| | 02.45-02.50 | 66.9 | 40.7 | 69.9 | 39.6 | 30.3 |
| | 02.50-02.55 | 67.0 | 40.8 | 70.0 | 39.6 | 30.4 |
| | 02.55-03.00 | 67.1 | 40.7 | 70.1 | 39.3 | 30.8 |
| 13. | 03.00-03.05 | 67.1 | 40.3 | 70.1 | 39.3 | 30.8 |
| | 03.05-03.10 | 67.2 | 40.2 | 70.2 | 39.4 | 30.8 |
| | 03.10-03.15 | 67.3 | 40.3 | 70.3 | 39.5 | 30.8 |
| | 03.15-03.20 | 67.5 | 40.6 | 70.5 | 39.7 | 30.8 |
| | 03.20-03.25 | 67.6 | 41.1 | 70.6 | 40.1 | 30.5 |
| | 03.25-03.30 | 67.5 | 40.9 | 70.5 | 40.0 | 30.5 |
| | 03.30-03.35 | 67.7 | 40.8 | 70.7 | 40.3 | 30.4 |
| | 03.35-03.40 | 67.5 | 40.7 | 70.5 | 40.3 | 30.2 |
| | 03.40-03.45 | 67.6 | 41.1 | 70.6 | 40.4 | 30.2 |
| | 03.45-03.50 | 67.5 | 40.8 | 70.5 | 40.0 | 30.5 |
| | 03.50-03.55 | 67.3 | 41.2 | 70.3 | 40.3 | 30.0 |
| | 03.55-04.00 | 67.4 | 41.2 | 70.4 | 40.1 | 30.3 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(22/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระโดน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 67.4 | 41.6 | 70.4 | 40.2 | 30.2 |
| | 04.05-04.10 | 67.5 | 41.8 | 70.5 | 40.1 | 30.4 |
| | 04.10-04.15 | 67.5 | 41.3 | 70.5 | 40.4 | 30.1 |
| | 04.15-04.20 | 67.6 | 41.7 | 70.6 | 40.6 | 30.0 |
| | 04.20-04.25 | 67.7 | 41.2 | 70.7 | 40.0 | 30.7 |
| | 04.25-04.30 | 67.7 | 41.0 | 70.7 | 40.2 | 30.5 |
| | 04.30-04.35 | 67.6 | 41.5 | 70.6 | 40.1 | 30.5 |
| | 04.35-04.40 | 67.8 | 41.5 | 70.8 | 40.1 | 30.7 |
| | 04.40-04.45 | 67.8 | 42.4 | 70.8 | 40.2 | 30.6 |
| | 04.45-04.50 | 67.8 | 43.7 | 70.8 | 41.0 | 29.8 |
| | 04.50-04.55 | 67.8 | 42.5 | 70.8 | 40.8 | 30.0 |
| | 04.55-05.00 | 67.8 | 43.2 | 70.8 | 40.9 | 29.9 |
| 15. | 05.00-05.05 | 67.8 | 44.7 | 70.8 | 41.6 | 29.2 |
| | 05.05-05.10 | 67.8 | 43.7 | 70.8 | 41.6 | 29.2 |
| | 05.10-05.15 | 67.8 | 44.8 | 70.8 | 42.2 | 28.6 |
| | 05.15-05.20 | 67.7 | 45.4 | 70.7 | 41.8 | 28.9 |
| | 05.20-05.25 | 67.8 | 48.2 | 70.8 | 42.9 | 27.9 |
| | 05.25-05.30 | 67.7 | 46.0 | 70.7 | 42.6 | 28.1 |
| | 05.30-05.35 | 67.7 | 46.7 | 70.7 | 42.0 | 28.7 |
| | 05.35-05.40 | 67.6 | 47.9 | 70.6 | 42.3 | 28.3 |
| | 05.40-05.45 | 67.6 | 45.8 | 70.6 | 42.8 | 27.8 |
| | 05.45-05.50 | 67.6 | 44.4 | 70.6 | 41.5 | 29.1 |
| | 05.50-05.55 | 67.6 | 44.8 | 70.6 | 41.6 | 29.0 |
| | 05.55-06.00 | 67.6 | 44.2 | 70.6 | 41.3 | 29.3 |
| 16. | 06.00-07.00 | 67.7 | 41.4 | 67.7 | 38.4 | 29.3 |
| 17. | 07.00-08.00 | 67.5 | 46.4 | 67.5 | 39.9 | 27.6 |
| 18. | 08.00-09.00 | 67.6 | 50.7 | 67.5 | 43.3 | 24.2 |
| 19. | 09.00-10.00 | 67.8 | 54.4 | 67.6 | 43.5 | 24.1 |
| 20. | 10.00-11.00 | 67.9 | 50.3 | 67.8 | 43.6 | 24.2 |
| 21. | 11.00-12.00 | 67.7 | 57.9 | 67.2 | 47.2 | 20.0 |
| 22. | 12.00-13.00 | 67.6 | 54.3 | 67.4 | 47.6 | 19.8 |
| 23. | 13.00-14.00 | 67.6 | 60.7 | 66.6 | 50.4 | 16.2 |
| 24. | 14.00-15.00 | 67.6 | 52.2 | 67.5 | 40.9 | 26.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีฟิจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid ฟิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150
Job No. : S660183/June

Report No. : 1646/2023/23-42
Report Date : June 13, 2023
Sampling Date : April 19-26 & June 4-5, 2023
Type of Sample : เสียงรบกวน

(23/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|-------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระถิ่น | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L90) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 67.4 | 52.6 | 67.3 | 45.3 | 22.0 |
| 2. | 16.00-17.00 | 67.3 | 51.8 | 67.2 | 45.0 | 22.2 |
| 3. | 17.00-18.00 | 67.3 | 54.3 | 67.1 | 44.9 | 22.2 |
| 4. | 18.00-19.00 | 67.2 | 55.6 | 66.9 | 52.8 | 14.1 |
| 5. | 19.00-20.00 | 67.2 | 55.5 | 66.9 | 38.7 | 28.2 |
| 6. | 20.00-21.00 | 66.8 | 50.3 | 66.7 | 39.5 | 27.2 |
| 7. | 21.00-22.00 | 67.0 | 43.5 | 67.0 | 38.2 | 28.8 |
| 8. | 22.00-22.05 | 66.8 | 40.2 | 69.8 | 37.5 | 32.3 |
| | 22.05-22.10 | 66.9 | 40.1 | 69.9 | 37.7 | 32.2 |
| | 22.10-22.15 | 66.9 | 40.5 | 69.9 | 38.6 | 31.3 |
| | 22.15-22.20 | 66.9 | 40.5 | 69.9 | 38.3 | 31.6 |
| | 22.20-22.25 | 67.1 | 43.6 | 70.1 | 37.7 | 32.4 |
| | 22.25-22.30 | 66.8 | 40.2 | 69.8 | 38.4 | 31.4 |
| | 22.30-22.35 | 66.8 | 40.4 | 69.8 | 38.5 | 31.3 |
| | 22.35-22.40 | 66.8 | 43.9 | 69.8 | 38.3 | 31.5 |
| | 22.40-22.45 | 66.7 | 41.2 | 69.7 | 38.1 | 31.6 |
| | 22.45-22.50 | 66.7 | 42.6 | 69.7 | 38.6 | 31.1 |
| | 22.50-22.55 | 66.7 | 41.2 | 69.7 | 39.6 | 30.1 |
| | 22.55-23.00 | 66.7 | 40.6 | 69.7 | 39.3 | 30.4 |
| 9. | 23.00-23.05 | 66.7 | 41.3 | 69.7 | 39.5 | 30.2 |
| | 23.05-23.10 | 66.7 | 40.9 | 69.7 | 39.3 | 30.4 |
| | 23.10-23.15 | 66.7 | 41.0 | 69.7 | 39.3 | 30.4 |
| | 23.15-23.20 | 66.6 | 40.9 | 69.6 | 39.5 | 30.1 |
| | 23.20-23.25 | 66.6 | 40.4 | 69.6 | 39.5 | 30.1 |
| | 23.25-23.30 | 66.7 | 40.3 | 69.7 | 39.5 | 30.2 |
| | 23.30-23.35 | 66.7 | 41.1 | 69.7 | 39.7 | 30.0 |
| | 23.35-23.40 | 66.8 | 40.9 | 69.8 | 39.7 | 30.1 |
| | 23.40-23.45 | 66.8 | 41.4 | 69.8 | 40.1 | 29.7 |
| | 23.45-23.50 | 66.9 | 42.1 | 69.9 | 41.0 | 28.9 |
| | 23.50-23.55 | 66.9 | 42.0 | 69.9 | 41.0 | 28.9 |
| | 23.55-00.00 | 67.0 | 42.1 | 70.0 | 40.9 | 29.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(23/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|-------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระเทียม | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L90) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 67.0 | 41.7 | 70.0 | 40.7 | 29.3 |
| | 00.05-00.10 | 67.0 | 41.6 | 70.0 | 40.7 | 29.3 |
| | 00.10-00.15 | 67.0 | 41.2 | 70.0 | 40.2 | 29.8 |
| | 00.15-00.20 | 67.1 | 41.1 | 70.1 | 39.7 | 30.4 |
| | 00.20-00.25 | 67.1 | 40.8 | 70.1 | 39.7 | 30.4 |
| | 00.25-00.30 | 67.2 | 41.0 | 70.2 | 40.2 | 30.0 |
| | 00.30-00.35 | 67.3 | 40.5 | 70.3 | 39.5 | 30.8 |
| | 00.35-00.40 | 67.2 | 40.1 | 70.2 | 39.3 | 30.9 |
| | 00.40-00.45 | 67.2 | 40.2 | 70.2 | 39.3 | 30.9 |
| | 00.45-00.50 | 67.2 | 40.4 | 70.2 | 39.6 | 30.6 |
| | 00.50-00.55 | 67.2 | 43.5 | 70.2 | 38.6 | 31.6 |
| 11. | 00.55-01.00 | 67.2 | 43.8 | 70.2 | 38.9 | 31.3 |
| | 01.00-01.05 | 67.2 | 40.3 | 70.2 | 39.4 | 30.8 |
| | 01.05-01.10 | 67.2 | 40.3 | 70.2 | 39.5 | 30.7 |
| | 01.10-01.15 | 67.2 | 40.6 | 70.2 | 39.6 | 30.6 |
| | 01.15-01.20 | 67.2 | 41.1 | 70.2 | 39.9 | 30.3 |
| | 01.20-01.25 | 67.2 | 41.4 | 70.2 | 40.2 | 30.0 |
| | 01.25-01.30 | 67.2 | 42.2 | 70.2 | 40.1 | 30.1 |
| | 01.30-01.35 | 67.2 | 41.2 | 70.2 | 39.9 | 30.3 |
| | 01.35-01.40 | 67.2 | 41.1 | 70.2 | 40.1 | 30.1 |
| | 01.40-01.45 | 67.3 | 41.2 | 70.3 | 40.1 | 30.2 |
| | 01.45-01.50 | 67.3 | 41.0 | 70.3 | 39.9 | 30.4 |
| 12. | 01.50-01.55 | 67.3 | 41.2 | 70.3 | 40.3 | 30.0 |
| | 01.55-02.00 | 67.3 | 40.8 | 70.3 | 39.9 | 30.4 |
| | 02.00-02.05 | 67.5 | 41.1 | 70.5 | 40.1 | 30.4 |
| | 02.05-02.10 | 67.6 | 40.7 | 70.6 | 39.7 | 30.9 |
| | 02.10-02.15 | 67.6 | 41.4 | 70.6 | 40.3 | 30.3 |
| | 02.15-02.20 | 67.6 | 41.4 | 70.6 | 40.2 | 30.4 |
| | 02.20-02.25 | 67.5 | 41.0 | 70.5 | 39.9 | 30.6 |
| | 02.25-02.30 | 67.5 | 41.1 | 70.5 | 40.1 | 30.4 |
| | 02.30-02.35 | 67.5 | 41.0 | 70.5 | 40.0 | 30.5 |
| | 02.35-02.40 | 67.4 | 40.6 | 70.4 | 39.6 | 30.8 |
| | 02.40-02.45 | 67.4 | 41.0 | 70.4 | 39.8 | 30.6 |
| 13. | 02.45-02.50 | 67.5 | 40.7 | 70.5 | 39.6 | 30.9 |
| | 02.50-02.55 | 67.3 | 40.8 | 70.3 | 39.6 | 30.7 |
| | 02.55-03.00 | 67.3 | 40.7 | 70.3 | 39.3 | 31.0 |
| | 03.00-03.05 | 67.3 | 40.3 | 70.3 | 39.3 | 31.0 |
| | 03.05-03.10 | 67.4 | 40.2 | 70.4 | 39.4 | 31.0 |
| | 03.10-03.15 | 67.3 | 40.3 | 70.3 | 39.5 | 30.8 |
| | 03.15-03.20 | 67.5 | 40.6 | 70.5 | 39.7 | 30.8 |
| | 03.20-03.25 | 67.5 | 41.1 | 70.5 | 40.1 | 30.4 |
| | 03.25-03.30 | 67.6 | 40.9 | 70.6 | 40.0 | 30.6 |
| | 03.30-03.35 | 67.5 | 40.8 | 70.5 | 40.3 | 30.2 |
| | 03.35-03.40 | 67.5 | 40.7 | 70.5 | 40.3 | 30.2 |
| Standard ⁽¹⁾⁽²⁾ | 03.40-03.45 | 67.6 | 41.1 | 70.6 | 40.4 | 30.2 |
| | 03.45-03.50 | 67.6 | 40.8 | 70.6 | 40.0 | 30.6 |
| | 03.50-03.55 | 67.6 | 41.2 | 70.6 | 40.3 | 30.3 |
| | 03.55-04.00 | 67.6 | 41.2 | 70.6 | 40.1 | 30.5 |
| | | | | | | |
| | | | | | | |
| | | | | | | |



TEST REPORT

(23/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|-------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระเทียม | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L90) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 67.5 | 41.6 | 70.5 | 40.2 | 30.3 |
| | 04.05-04.10 | 67.5 | 41.8 | 70.5 | 40.1 | 30.4 |
| | 04.10-04.15 | 67.5 | 41.3 | 70.5 | 40.4 | 30.1 |
| | 04.15-04.20 | 67.4 | 41.7 | 70.4 | 40.6 | 29.8 |
| | 04.20-04.25 | 67.4 | 41.2 | 70.4 | 40.0 | 30.4 |
| | 04.25-04.30 | 67.3 | 41.0 | 70.3 | 40.2 | 30.1 |
| | 04.30-04.35 | 67.4 | 41.5 | 70.4 | 40.1 | 30.3 |
| | 04.35-04.40 | 67.4 | 41.5 | 70.4 | 40.1 | 30.3 |
| | 04.40-04.45 | 67.3 | 42.4 | 70.3 | 40.2 | 30.1 |
| | 04.45-04.50 | 67.3 | 43.7 | 70.3 | 41.0 | 29.3 |
| 15. | 04.50-04.55 | 67.3 | 42.5 | 70.3 | 40.8 | 29.5 |
| | 04.55-05.00 | 67.4 | 43.2 | 70.4 | 40.9 | 29.5 |
| | 05.00-05.05 | 67.3 | 44.7 | 70.3 | 41.6 | 28.7 |
| | 05.05-05.10 | 67.3 | 43.7 | 70.3 | 41.6 | 28.7 |
| | 05.10-05.15 | 67.2 | 44.8 | 70.2 | 42.2 | 28.0 |
| | 05.15-05.20 | 67.2 | 45.4 | 70.2 | 41.8 | 28.4 |
| | 05.20-05.25 | 67.4 | 48.2 | 70.3 | 42.9 | 27.4 |
| | 05.25-05.30 | 67.3 | 46.0 | 70.3 | 42.6 | 27.7 |
| | 05.30-05.35 | 67.3 | 46.7 | 70.3 | 42.0 | 28.3 |
| | 05.35-05.40 | 67.3 | 47.9 | 70.2 | 42.3 | 27.9 |
| 16. | 05.40-05.45 | 67.3 | 45.8 | 70.3 | 42.8 | 27.5 |
| | 05.45-05.50 | 67.3 | 44.4 | 70.3 | 41.5 | 28.8 |
| | 05.50-05.55 | 67.3 | 44.8 | 70.3 | 41.6 | 28.7 |
| | 05.55-06.00 | 67.3 | 44.2 | 70.3 | 41.3 | 29.0 |
| | 06.00-07.00 | 67.4 | 41.4 | 67.4 | 38.4 | 29.0 |
| | 07.00-08.00 | 67.7 | 46.4 | 67.7 | 39.9 | 27.8 |
| | 08.00-09.00 | 68.0 | 50.7 | 67.9 | 43.3 | 24.6 |
| | 09.00-10.00 | 67.9 | 54.4 | 67.7 | 43.5 | 24.2 |
| | 10.00-11.00 | 67.9 | 50.3 | 67.8 | 43.6 | 24.2 |
| | 11.00-12.00 | 67.8 | 57.9 | 67.3 | 47.2 | 20.1 |
| 22. | 12.00-13.00 | 67.7 | 54.3 | 67.5 | 47.6 | 19.9 |
| 23. | 13.00-14.00 | 67.6 | 60.7 | 66.6 | 50.4 | 16.2 |
| 24. | 14.00-15.00 | 67.6 | 52.2 | 67.5 | 40.9 | 26.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/24-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(24/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 67.4 | 52.6 | 67.3 | 45.3 | 22.0 |
| 2. | 16.00-17.00 | 67.2 | 51.8 | 67.1 | 45.0 | 22.1 |
| 3. | 17.00-18.00 | 67.0 | 54.3 | 66.8 | 44.9 | 21.9 |
| 4. | 18.00-19.00 | 66.8 | 55.6 | 66.5 | 52.8 | 13.7 |
| 5. | 19.00-20.00 | 66.6 | 55.5 | 66.2 | 38.7 | 27.5 |
| 6. | 20.00-21.00 | 67.4 | 50.3 | 67.3 | 39.5 | 27.8 |
| 7. | 21.00-22.00 | 67.1 | 43.5 | 67.1 | 38.2 | 28.9 |
| 8. | 22.00-22.05 | 66.8 | 40.2 | 69.8 | 37.5 | 32.3 |
| | 22.05-22.10 | 67.0 | 40.1 | 70.0 | 37.7 | 32.3 |
| | 22.10-22.15 | 67.0 | 40.5 | 70.0 | 38.6 | 31.4 |
| | 22.15-22.20 | 67.2 | 40.5 | 70.2 | 38.3 | 31.9 |
| | 22.20-22.25 | 67.2 | 43.6 | 70.2 | 37.7 | 32.5 |
| | 22.25-22.30 | 67.1 | 40.2 | 70.1 | 38.4 | 31.7 |
| | 22.30-22.35 | 66.9 | 40.4 | 69.9 | 38.5 | 31.4 |
| | 22.35-22.40 | 66.8 | 43.9 | 69.8 | 38.3 | 31.5 |
| | 22.40-22.45 | 67.0 | 41.2 | 70.0 | 38.1 | 31.9 |
| | 22.45-22.50 | 67.2 | 42.6 | 70.2 | 38.6 | 31.6 |
| | 22.50-22.55 | 67.2 | 41.2 | 70.2 | 39.6 | 30.6 |
| | 22.55-23.00 | 67.2 | 40.6 | 70.2 | 39.3 | 30.9 |
| 9. | 23.00-23.05 | 67.2 | 41.3 | 70.2 | 39.5 | 30.7 |
| | 23.05-23.10 | 67.1 | 40.9 | 70.1 | 39.3 | 30.8 |
| | 23.10-23.15 | 67.2 | 41.0 | 70.2 | 39.3 | 30.9 |
| | 23.15-23.20 | 67.2 | 40.9 | 70.2 | 39.5 | 30.7 |
| | 23.20-23.25 | 67.1 | 40.4 | 70.1 | 39.5 | 30.6 |
| | 23.25-23.30 | 67.1 | 40.3 | 70.1 | 39.5 | 30.6 |
| | 23.30-23.35 | 67.2 | 41.1 | 70.2 | 39.7 | 30.5 |
| | 23.35-23.40 | 67.2 | 40.9 | 70.2 | 39.7 | 30.5 |
| | 23.40-23.45 | 67.1 | 41.4 | 70.1 | 40.1 | 30.0 |
| | 23.45-23.50 | 67.3 | 42.1 | 70.3 | 41.0 | 29.3 |
| | 23.50-23.55 | 67.4 | 42.0 | 70.4 | 41.0 | 29.4 |
| | 23.55-00.00 | 67.4 | 42.1 | 70.4 | 40.9 | 29.5 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(24/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 67.2 | 41.7 | 70.2 | 40.7 | 29.5 |
| | 00.05-00.10 | 67.1 | 41.6 | 70.1 | 40.7 | 29.4 |
| | 00.10-00.15 | 67.2 | 41.2 | 70.2 | 40.2 | 30.0 |
| | 00.15-00.20 | 67.3 | 41.1 | 70.3 | 39.7 | 30.6 |
| | 00.20-00.25 | 67.4 | 40.8 | 70.4 | 39.7 | 30.7 |
| | 00.25-00.30 | 67.4 | 41.0 | 70.4 | 40.2 | 30.2 |
| | 00.30-00.35 | 67.6 | 40.5 | 70.6 | 39.5 | 31.1 |
| | 00.35-00.40 | 67.7 | 40.1 | 70.7 | 39.3 | 31.4 |
| | 00.40-00.45 | 67.6 | 40.2 | 70.6 | 39.3 | 31.3 |
| | 00.45-00.50 | 67.5 | 40.4 | 70.5 | 39.6 | 30.9 |
| | 00.50-00.55 | 67.3 | 43.5 | 70.3 | 38.6 | 31.7 |
| | 00.55-01.00 | 67.3 | 43.8 | 70.3 | 38.9 | 31.4 |
| 11. | 01.00-01.05 | 67.2 | 40.3 | 70.2 | 39.4 | 30.8 |
| | 01.05-01.10 | 67.4 | 40.3 | 70.4 | 39.5 | 30.9 |
| | 01.10-01.15 | 67.3 | 40.6 | 70.3 | 39.6 | 30.7 |
| | 01.15-01.20 | 67.4 | 41.1 | 70.4 | 39.9 | 30.5 |
| | 01.20-01.25 | 67.4 | 41.4 | 70.4 | 40.2 | 30.2 |
| | 01.25-01.30 | 67.4 | 42.2 | 70.4 | 40.1 | 30.3 |
| | 01.30-01.35 | 67.4 | 41.2 | 70.4 | 39.9 | 30.5 |
| | 01.35-01.40 | 67.3 | 41.1 | 70.3 | 40.1 | 30.2 |
| | 01.40-01.45 | 67.4 | 41.2 | 70.4 | 40.1 | 30.3 |
| | 01.45-01.50 | 67.6 | 41.0 | 70.6 | 39.9 | 30.7 |
| | 01.50-01.55 | 67.7 | 41.2 | 70.7 | 40.3 | 30.4 |
| | 01.55-02.00 | 67.6 | 40.8 | 70.6 | 39.9 | 30.7 |
| 12. | 02.00-02.05 | 67.7 | 41.1 | 70.7 | 40.1 | 30.6 |
| | 02.05-02.10 | 67.6 | 40.7 | 70.6 | 39.7 | 30.9 |
| | 02.10-02.15 | 67.5 | 41.4 | 70.5 | 40.3 | 30.2 |
| | 02.15-02.20 | 67.6 | 41.4 | 70.6 | 40.2 | 30.4 |
| | 02.20-02.25 | 67.6 | 41.0 | 70.6 | 39.9 | 30.7 |
| | 02.25-02.30 | 67.7 | 41.1 | 70.7 | 40.1 | 30.6 |
| | 02.30-02.35 | 67.6 | 41.0 | 70.6 | 40.0 | 30.6 |
| | 02.35-02.40 | 67.5 | 40.6 | 70.5 | 39.6 | 30.9 |
| | 02.40-02.45 | 67.5 | 41.0 | 70.5 | 39.8 | 30.7 |
| | 02.45-02.50 | 67.6 | 40.7 | 70.6 | 39.6 | 31.0 |
| | 02.50-02.55 | 67.5 | 40.8 | 70.5 | 39.6 | 30.9 |
| | 02.55-03.00 | 67.6 | 40.7 | 70.6 | 39.3 | 31.3 |
| 13. | 03.00-03.05 | 67.6 | 40.3 | 70.6 | 39.3 | 31.3 |
| | 03.05-03.10 | 67.6 | 40.2 | 70.6 | 39.4 | 31.2 |
| | 03.10-03.15 | 67.5 | 40.3 | 70.5 | 39.5 | 31.0 |
| | 03.15-03.20 | 67.6 | 40.6 | 70.6 | 39.7 | 30.9 |
| | 03.20-03.25 | 67.6 | 41.1 | 70.6 | 40.1 | 30.5 |
| | 03.25-03.30 | 67.5 | 40.9 | 70.5 | 40.0 | 30.5 |
| | 03.30-03.35 | 67.5 | 40.8 | 70.5 | 40.3 | 30.2 |
| | 03.35-03.40 | 67.6 | 40.7 | 70.6 | 40.3 | 30.3 |
| | 03.40-03.45 | 67.7 | 41.1 | 70.7 | 40.4 | 30.3 |
| | 03.45-03.50 | 67.5 | 40.8 | 70.5 | 40.0 | 30.5 |
| | 03.50-03.55 | 67.6 | 41.2 | 70.6 | 40.3 | 30.3 |
| | 03.55-04.00 | 67.7 | 41.2 | 70.7 | 40.1 | 30.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(24/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 67.7 | 41.6 | 70.7 | 40.2 | 30.5 |
| | 04.05-04.10 | 67.7 | 41.8 | 70.7 | 40.1 | 30.6 |
| | 04.10-04.15 | 67.7 | 41.3 | 70.7 | 40.4 | 30.3 |
| | 04.15-04.20 | 67.8 | 41.7 | 70.8 | 40.6 | 30.2 |
| | 04.20-04.25 | 67.8 | 41.2 | 70.8 | 40.0 | 30.8 |
| | 04.25-04.30 | 67.8 | 41.0 | 70.8 | 40.2 | 30.6 |
| | 04.30-04.35 | 67.8 | 41.5 | 70.8 | 40.1 | 30.7 |
| | 04.35-04.40 | 67.8 | 41.5 | 70.8 | 40.1 | 30.7 |
| | 04.40-04.45 | 67.9 | 42.4 | 70.9 | 40.2 | 30.7 |
| | 04.45-04.50 | 67.9 | 43.7 | 70.9 | 41.0 | 29.9 |
| | 04.50-04.55 | 67.9 | 42.5 | 70.9 | 40.8 | 30.1 |
| 15. | 04.55-05.00 | 67.8 | 43.2 | 70.8 | 40.9 | 29.9 |
| | 05.00-05.05 | 67.8 | 44.7 | 70.8 | 41.6 | 29.2 |
| | 05.05-05.10 | 67.8 | 43.7 | 70.8 | 41.6 | 29.2 |
| | 05.10-05.15 | 67.9 | 44.8 | 70.9 | 42.2 | 28.7 |
| | 05.15-05.20 | 67.7 | 45.4 | 70.7 | 41.8 | 28.9 |
| | 05.20-05.25 | 67.8 | 48.2 | 70.8 | 42.9 | 27.9 |
| | 05.25-05.30 | 67.9 | 46.0 | 70.9 | 42.6 | 28.3 |
| | 05.30-05.35 | 67.8 | 46.7 | 70.8 | 42.0 | 28.8 |
| | 05.35-05.40 | 67.8 | 47.9 | 70.8 | 42.3 | 28.5 |
| | 05.40-05.45 | 67.8 | 45.8 | 70.8 | 42.8 | 28.0 |
| | 05.45-05.50 | 67.7 | 44.4 | 70.7 | 41.5 | 29.2 |
| 16. | 05.50-05.55 | 67.8 | 44.8 | 70.8 | 41.6 | 29.2 |
| | 05.55-06.00 | 67.8 | 44.2 | 70.8 | 41.3 | 29.5 |
| | 06.00-07.00 | 67.8 | 41.4 | 67.8 | 38.4 | 29.4 |
| | 07.00-08.00 | 68.1 | 46.4 | 68.1 | 39.9 | 28.2 |
| | 08.00-09.00 | 68.0 | 50.7 | 67.9 | 43.3 | 24.6 |
| | 09.00-10.00 | 68.3 | 54.4 | 68.1 | 43.5 | 24.6 |
| | 10.00-11.00 | 67.5 | 50.3 | 67.4 | 43.6 | 23.8 |
| | 11.00-12.00 | 67.8 | 57.9 | 67.3 | 47.2 | 20.1 |
| | 12.00-13.00 | 67.7 | 54.3 | 67.5 | 47.6 | 19.9 |
| | 13.00-14.00 | 67.5 | 60.7 | 66.5 | 50.4 | 16.1 |
| | 14.00-15.00 | 67.5 | 52.2 | 67.4 | 40.9 | 26.5 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150
Job No. : S660183/June

Report No. : 1646/2023/25-42
Report Date : June 13, 2023
Sampling Date : April 19-26 & June 4-5, 2023
Type of Sample : เสียงรบกวน

(25/1-3)

| Item | Time | Result (dB(A)) | | | | |
|-----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระถิ่น | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 67.5 | 52.6 | 67.4 | 45.3 | 22.1 |
| 2. | 16.00-17.00 | 67.4 | 51.8 | 67.3 | 45.0 | 22.3 |
| 3. | 17.00-18.00 | 67.3 | 54.3 | 67.1 | 44.9 | 22.2 |
| 4. | 18.00-19.00 | 67.1 | 55.6 | 66.8 | 52.8 | 14.0 |
| 5. | 19.00-20.00 | 67.1 | 55.5 | 66.8 | 38.7 | 28.1 |
| 6. | 20.00-21.00 | 67.2 | 50.3 | 67.1 | 39.5 | 27.6 |
| 7. | 21.00-22.00 | 66.8 | 43.5 | 66.8 | 38.2 | 28.6 |
| 8. | 22.00-22.05 | 66.7 | 40.2 | 69.7 | 37.5 | 32.2 |
| | 22.05-22.10 | 66.7 | 40.1 | 69.7 | 37.7 | 32.0 |
| | 22.10-22.15 | 66.8 | 40.5 | 69.8 | 38.6 | 31.2 |
| | 22.15-22.20 | 66.7 | 40.5 | 69.7 | 38.3 | 31.4 |
| | 22.20-22.25 | 66.8 | 43.6 | 69.8 | 37.7 | 32.1 |
| | 22.25-22.30 | 66.7 | 40.2 | 69.7 | 38.4 | 31.3 |
| | 22.30-22.35 | 68.1 | 40.4 | 71.1 | 38.5 | 32.6 |
| | 22.35-22.40 | 66.8 | 43.9 | 69.8 | 38.3 | 31.5 |
| | 22.40-22.45 | 66.8 | 41.2 | 69.8 | 38.1 | 31.7 |
| | 22.45-22.50 | 66.8 | 42.6 | 69.8 | 38.6 | 31.2 |
| | 22.50-22.55 | 66.8 | 41.2 | 69.8 | 39.6 | 30.2 |
| | 22.55-23.00 | 66.8 | 40.6 | 69.8 | 39.3 | 30.5 |
| 9. | 23.00-23.05 | 66.8 | 41.3 | 69.8 | 39.5 | 30.3 |
| | 23.05-23.10 | 66.9 | 40.9 | 69.9 | 39.3 | 30.6 |
| | 23.10-23.15 | 66.8 | 41.0 | 69.8 | 39.3 | 30.5 |
| | 23.15-23.20 | 66.8 | 40.9 | 69.8 | 39.5 | 30.3 |
| | 23.20-23.25 | 66.8 | 40.4 | 69.8 | 39.5 | 30.3 |
| | 23.25-23.30 | 66.7 | 40.3 | 69.7 | 39.5 | 30.2 |
| | 23.30-23.35 | 66.7 | 41.1 | 69.7 | 39.7 | 30.0 |
| | 23.35-23.40 | 66.8 | 40.9 | 69.8 | 39.7 | 30.1 |
| | 23.40-23.45 | 66.8 | 41.4 | 69.8 | 40.1 | 29.7 |
| | 23.45-23.50 | 66.8 | 42.1 | 69.8 | 41.0 | 28.8 |
| | 23.50-23.55 | 67.0 | 42.0 | 70.0 | 41.0 | 29.0 |
| | 23.55-00.00 | 66.7 | 42.1 | 69.7 | 40.9 | 28.8 |
| Standard ^{(1)/(2)} | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(25/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 66.7 | 41.7 | 69.7 | 40.7 | 29.0 |
| | 00.05-00.10 | 66.7 | 41.6 | 69.7 | 40.7 | 29.0 |
| | 00.10-00.15 | 66.6 | 41.2 | 69.6 | 40.2 | 29.4 |
| | 00.15-00.20 | 66.6 | 41.1 | 69.6 | 39.7 | 29.9 |
| | 00.20-00.25 | 66.6 | 40.8 | 69.6 | 39.7 | 29.9 |
| | 00.25-00.30 | 66.6 | 41.0 | 69.6 | 40.2 | 29.4 |
| | 00.30-00.35 | 66.6 | 40.5 | 69.6 | 39.5 | 30.1 |
| | 00.35-00.40 | 66.6 | 40.1 | 69.6 | 39.3 | 30.3 |
| | 00.40-00.45 | 66.6 | 40.2 | 69.6 | 39.3 | 30.3 |
| | 00.45-00.50 | 66.5 | 40.4 | 69.5 | 39.6 | 29.9 |
| 11. | 00.50-00.55 | 66.5 | 43.5 | 69.5 | 38.6 | 30.9 |
| | 00.55-01.00 | 66.6 | 43.8 | 69.6 | 38.9 | 30.7 |
| | 01.00-01.05 | 66.6 | 40.3 | 69.6 | 39.4 | 30.2 |
| | 01.05-01.10 | 66.7 | 40.3 | 69.7 | 39.5 | 30.2 |
| | 01.10-01.15 | 66.7 | 40.6 | 69.7 | 39.6 | 30.1 |
| | 01.15-01.20 | 66.8 | 41.1 | 69.8 | 39.9 | 29.9 |
| | 01.20-01.25 | 66.8 | 41.4 | 69.8 | 40.2 | 29.6 |
| | 01.25-01.30 | 66.9 | 42.2 | 69.9 | 40.1 | 29.8 |
| | 01.30-01.35 | 66.9 | 41.2 | 69.9 | 39.9 | 30.0 |
| | 01.35-01.40 | 66.9 | 41.1 | 69.9 | 40.1 | 29.8 |
| 12. | 01.40-01.45 | 66.9 | 41.2 | 69.9 | 40.1 | 29.8 |
| | 01.45-01.50 | 67.0 | 41.0 | 70.0 | 39.9 | 30.1 |
| | 01.50-01.55 | 67.0 | 41.2 | 70.0 | 40.3 | 29.7 |
| | 01.55-02.00 | 67.1 | 40.8 | 70.1 | 39.9 | 30.2 |
| | 02.00-02.05 | 67.2 | 41.1 | 70.2 | 40.1 | 30.1 |
| | 02.05-02.10 | 67.1 | 40.7 | 70.1 | 39.7 | 30.4 |
| | 02.10-02.15 | 67.1 | 41.4 | 70.1 | 40.3 | 29.8 |
| | 02.15-02.20 | 67.1 | 41.4 | 70.1 | 40.2 | 29.9 |
| | 02.20-02.25 | 67.1 | 41.0 | 70.1 | 39.9 | 30.2 |
| | 02.25-02.30 | 67.1 | 41.1 | 70.1 | 40.1 | 30.0 |
| 13. | 02.30-02.35 | 67.1 | 41.0 | 70.1 | 40.0 | 30.1 |
| | 02.35-02.40 | 67.1 | 40.6 | 70.1 | 39.6 | 30.5 |
| | 02.40-02.45 | 67.1 | 41.0 | 70.1 | 39.8 | 30.3 |
| | 02.45-02.50 | 67.1 | 40.7 | 70.1 | 39.6 | 30.5 |
| | 02.50-02.55 | 67.1 | 40.8 | 70.1 | 39.6 | 30.5 |
| | 02.55-03.00 | 67.1 | 40.7 | 70.1 | 39.3 | 30.8 |
| | 03.00-03.05 | 67.1 | 40.3 | 70.1 | 39.3 | 30.8 |
| | 03.05-03.10 | 67.1 | 40.2 | 70.1 | 39.4 | 30.7 |
| | 03.10-03.15 | 67.2 | 40.3 | 70.2 | 39.5 | 30.7 |
| | 03.15-03.20 | 67.2 | 40.6 | 70.2 | 39.7 | 30.5 |
| | 03.20-03.25 | 67.2 | 41.1 | 70.2 | 40.1 | 30.1 |
| | 03.25-03.30 | 67.2 | 40.9 | 70.2 | 40.0 | 30.2 |
| | 03.30-03.35 | 67.4 | 40.8 | 70.4 | 40.3 | 30.1 |
| | 03.35-03.40 | 67.5 | 40.7 | 70.5 | 40.3 | 30.2 |
| | 03.40-03.45 | 67.5 | 41.1 | 70.5 | 40.4 | 30.1 |
| | 03.45-03.50 | 67.5 | 40.8 | 70.5 | 40.0 | 30.5 |
| | 03.50-03.55 | 67.4 | 41.2 | 70.4 | 40.3 | 30.1 |
| | 03.55-04.00 | 67.4 | 41.2 | 70.4 | 40.1 | 30.3 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(25/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระถิ่น | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 67.4 | 41.6 | 70.4 | 40.2 | 30.2 |
| | 04.05-04.10 | 67.3 | 41.8 | 70.3 | 40.1 | 30.2 |
| | 04.10-04.15 | 67.3 | 41.3 | 70.3 | 40.4 | 29.9 |
| | 04.15-04.20 | 67.4 | 41.7 | 70.4 | 40.6 | 29.8 |
| | 04.20-04.25 | 67.2 | 41.2 | 70.2 | 40.0 | 30.2 |
| | 04.25-04.30 | 67.2 | 41.0 | 70.2 | 40.2 | 30.0 |
| | 04.30-04.35 | 67.2 | 41.5 | 70.2 | 40.1 | 30.1 |
| | 04.35-04.40 | 67.3 | 41.5 | 70.3 | 40.1 | 30.2 |
| | 04.40-04.45 | 67.2 | 42.4 | 70.2 | 40.2 | 30.0 |
| | 04.45-04.50 | 67.4 | 43.7 | 70.4 | 41.0 | 29.4 |
| | 04.50-04.55 | 67.4 | 42.5 | 70.4 | 40.8 | 29.6 |
| | 04.55-05.00 | 67.5 | 43.2 | 70.5 | 40.9 | 29.6 |
| 15. | 05.00-05.05 | 67.4 | 44.7 | 70.4 | 41.6 | 28.8 |
| | 05.05-05.10 | 67.4 | 43.7 | 70.4 | 41.6 | 28.8 |
| | 05.10-05.15 | 67.5 | 44.8 | 70.5 | 42.2 | 28.3 |
| | 05.15-05.20 | 67.5 | 45.4 | 70.5 | 41.8 | 28.7 |
| | 05.20-05.25 | 67.5 | 48.2 | 70.4 | 42.9 | 27.5 |
| | 05.25-05.30 | 67.5 | 46.0 | 70.5 | 42.6 | 27.9 |
| | 05.30-05.35 | 67.4 | 46.7 | 70.4 | 42.0 | 28.4 |
| | 05.35-05.40 | 67.4 | 47.9 | 70.4 | 42.3 | 28.1 |
| | 05.40-05.45 | 67.4 | 45.8 | 70.4 | 42.8 | 27.6 |
| | 05.45-05.50 | 67.3 | 44.4 | 70.3 | 41.5 | 28.8 |
| | 05.50-05.55 | 67.3 | 44.8 | 70.3 | 41.6 | 28.7 |
| | 05.55-06.00 | 67.2 | 44.2 | 70.2 | 41.3 | 28.9 |
| 16. | 06.00-07.00 | 67.2 | 41.4 | 67.2 | 38.4 | 28.8 |
| 17. | 07.00-08.00 | 67.2 | 46.4 | 67.2 | 39.9 | 27.3 |
| 18. | 08.00-09.00 | 67.5 | 50.7 | 67.4 | 43.3 | 24.1 |
| 19. | 09.00-10.00 | 67.7 | 54.4 | 67.5 | 43.5 | 24.0 |
| 20. | 10.00-11.00 | 67.9 | 50.3 | 67.8 | 43.6 | 24.2 |
| 21. | 11.00-12.00 | 67.8 | 57.9 | 67.3 | 47.2 | 20.1 |
| 22. | 12.00-13.00 | 67.8 | 54.3 | 67.6 | 47.6 | 20.0 |
| 23. | 13.00-14.00 | 66.8 | 60.7 | 65.6 | 50.4 | 15.2 |
| 24. | 14.00-15.00 | 66.7 | 52.2 | 66.5 | 40.9 | 25.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/26-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร

Report Date : June 13, 2023

(ระยะดำเนินการ)

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน

Type of Sample : เสียงรบกวน

จังหวัดพิจิตร 66150

Job No. : S660183/June

(26/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 66.7 | 52.6 | 66.5 | 45.3 | 21.2 |
| 2. | 16.00-17.00 | 66.6 | 51.8 | 66.5 | 45.0 | 21.5 |
| 3. | 17.00-18.00 | 66.8 | 54.3 | 66.5 | 44.9 | 21.6 |
| 4. | 18.00-19.00 | 66.4 | 55.6 | 66.0 | 52.8 | 13.2 |
| 5. | 19.00-20.00 | 66.6 | 55.5 | 66.2 | 38.7 | 27.5 |
| 6. | 20.00-21.00 | 66.4 | 50.3 | 66.3 | 39.5 | 26.8 |
| 7. | 21.00-22.00 | 66.5 | 43.5 | 66.5 | 38.2 | 28.3 |
| 8. | 22.00-22.05 | 66.9 | 40.2 | 69.9 | 37.5 | 32.4 |
| | 22.05-22.10 | 67.2 | 40.1 | 70.2 | 37.7 | 32.5 |
| | 22.10-22.15 | 67.1 | 40.5 | 70.1 | 38.6 | 31.5 |
| | 22.15-22.20 | 67.1 | 40.5 | 70.1 | 38.3 | 31.8 |
| | 22.20-22.25 | 67.3 | 43.6 | 70.3 | 37.7 | 32.6 |
| | 22.25-22.30 | 67.0 | 40.2 | 70.0 | 38.4 | 31.6 |
| | 22.30-22.35 | 66.8 | 40.4 | 69.8 | 38.5 | 31.3 |
| | 22.35-22.40 | 66.7 | 43.9 | 69.7 | 38.3 | 31.4 |
| | 22.40-22.45 | 66.4 | 41.2 | 69.4 | 38.1 | 31.3 |
| | 22.45-22.50 | 66.4 | 42.6 | 69.4 | 38.6 | 30.8 |
| | 22.50-22.55 | 66.3 | 41.2 | 69.3 | 39.6 | 29.7 |
| | 22.55-23.00 | 66.4 | 40.6 | 69.4 | 39.3 | 30.1 |
| 9. | 23.00-23.05 | 66.5 | 41.3 | 69.5 | 39.5 | 30.0 |
| | 23.05-23.10 | 66.6 | 40.9 | 69.6 | 39.3 | 30.3 |
| | 23.10-23.15 | 66.7 | 41.0 | 69.7 | 39.3 | 30.4 |
| | 23.15-23.20 | 66.7 | 40.9 | 69.7 | 39.5 | 30.2 |
| | 23.20-23.25 | 66.8 | 40.4 | 69.8 | 39.5 | 30.3 |
| | 23.25-23.30 | 66.8 | 40.3 | 69.8 | 39.5 | 30.3 |
| | 23.30-23.35 | 66.8 | 41.1 | 69.8 | 39.7 | 30.1 |
| | 23.35-23.40 | 66.7 | 40.9 | 69.7 | 39.7 | 30.0 |
| | 23.40-23.45 | 66.8 | 41.4 | 69.8 | 40.1 | 29.7 |
| | 23.45-23.50 | 66.8 | 42.1 | 69.8 | 41.0 | 28.8 |
| | 23.50-23.55 | 66.8 | 42.0 | 69.8 | 41.0 | 28.8 |
| | 23.55-00.00 | 66.8 | 42.1 | 69.8 | 40.9 | 28.9 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(26/2-3)

| Item | Time | Result (dB(A)) | | | | |
|-----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระเทียม | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 66.7 | 41.7 | 69.7 | 40.7 | 29.0 |
| | 00.05-00.10 | 66.7 | 41.6 | 69.7 | 40.7 | 29.0 |
| | 00.10-00.15 | 66.7 | 41.2 | 69.7 | 40.2 | 29.5 |
| | 00.15-00.20 | 66.7 | 41.1 | 69.7 | 39.7 | 30.0 |
| | 00.20-00.25 | 66.8 | 40.8 | 69.8 | 39.7 | 30.1 |
| | 00.25-00.30 | 66.8 | 41.0 | 69.8 | 40.2 | 29.6 |
| | 00.30-00.35 | 66.7 | 40.5 | 69.7 | 39.5 | 30.2 |
| | 00.35-00.40 | 66.7 | 40.1 | 69.7 | 39.3 | 30.4 |
| | 00.40-00.45 | 66.4 | 40.2 | 69.4 | 39.3 | 30.1 |
| | 00.45-00.50 | 66.3 | 40.4 | 69.3 | 39.6 | 29.7 |
| 11. | 00.50-00.55 | 66.3 | 43.5 | 69.3 | 38.6 | 30.7 |
| | 00.55-01.00 | 66.4 | 43.8 | 69.4 | 38.9 | 30.5 |
| | 01.00-01.05 | 66.5 | 40.3 | 69.5 | 39.4 | 30.1 |
| | 01.05-01.10 | 66.5 | 40.3 | 69.5 | 39.5 | 30.0 |
| | 01.10-01.15 | 66.6 | 40.6 | 69.6 | 39.6 | 30.0 |
| | 01.15-01.20 | 66.7 | 41.1 | 69.7 | 39.9 | 29.8 |
| | 01.20-01.25 | 66.9 | 41.4 | 69.9 | 40.2 | 29.7 |
| | 01.25-01.30 | 67.0 | 42.2 | 70.0 | 40.1 | 29.9 |
| | 01.30-01.35 | 66.9 | 41.2 | 69.9 | 39.9 | 30.0 |
| | 01.35-01.40 | 67.1 | 41.1 | 70.1 | 40.1 | 30.0 |
| 12. | 01.40-01.45 | 66.9 | 41.2 | 69.9 | 40.1 | 29.8 |
| | 01.45-01.50 | 67.0 | 41.0 | 70.0 | 39.9 | 30.1 |
| | 01.50-01.55 | 66.9 | 41.2 | 69.9 | 40.3 | 29.6 |
| | 01.55-02.00 | 66.7 | 40.8 | 69.7 | 39.9 | 29.8 |
| | 02.00-02.05 | 66.8 | 41.1 | 69.8 | 40.1 | 29.7 |
| | 02.05-02.10 | 66.8 | 40.7 | 69.8 | 39.7 | 30.1 |
| | 02.10-02.15 | 66.9 | 41.4 | 69.9 | 40.3 | 29.6 |
| | 02.15-02.20 | 66.9 | 41.4 | 69.9 | 40.2 | 29.7 |
| | 02.20-02.25 | 67.0 | 41.0 | 70.0 | 39.9 | 30.1 |
| | 02.25-02.30 | 67.1 | 41.1 | 70.1 | 40.1 | 30.0 |
| 13. | 02.30-02.35 | 67.1 | 41.0 | 70.1 | 40.0 | 30.1 |
| | 02.35-02.40 | 67.0 | 40.6 | 70.0 | 39.6 | 30.4 |
| | 02.40-02.45 | 67.2 | 41.0 | 70.2 | 39.8 | 30.4 |
| | 02.45-02.50 | 67.2 | 40.7 | 70.2 | 39.6 | 30.6 |
| | 02.50-02.55 | 67.2 | 40.8 | 70.2 | 39.6 | 30.6 |
| | 02.55-03.00 | 67.2 | 40.7 | 70.2 | 39.3 | 30.9 |
| | 03.00-03.05 | 67.2 | 40.3 | 70.2 | 39.3 | 30.9 |
| | 03.05-03.10 | 67.2 | 40.2 | 70.2 | 39.4 | 30.8 |
| | 03.10-03.15 | 67.2 | 40.3 | 70.2 | 39.5 | 30.7 |
| | 03.15-03.20 | 67.2 | 40.6 | 70.2 | 39.7 | 30.5 |
| | 03.20-03.25 | 67.1 | 41.1 | 70.1 | 40.1 | 30.0 |
| | 03.25-03.30 | 67.2 | 40.9 | 70.2 | 40.0 | 30.2 |
| | 03.30-03.35 | 67.1 | 40.8 | 70.1 | 40.3 | 29.8 |
| | 03.35-03.40 | 67.1 | 40.7 | 70.1 | 40.3 | 29.8 |
| | 03.40-03.45 | 67.0 | 41.1 | 70.0 | 40.4 | 29.6 |
| | 03.45-03.50 | 67.0 | 40.8 | 70.0 | 40.0 | 30.0 |
| | 03.50-03.55 | 67.0 | 41.2 | 70.0 | 40.3 | 29.7 |
| | 03.55-04.00 | 67.0 | 41.2 | 70.0 | 40.1 | 29.9 |
| Standard ^{(1)/(2)} | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(26/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระเทียม | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 67.0 | 41.6 | 70.0 | 40.2 | 29.8 |
| | 04.05-04.10 | 67.1 | 41.8 | 70.1 | 40.1 | 30.0 |
| | 04.10-04.15 | 67.1 | 41.3 | 70.1 | 40.4 | 29.7 |
| | 04.15-04.20 | 67.1 | 41.7 | 70.1 | 40.6 | 29.5 |
| | 04.20-04.25 | 67.1 | 41.2 | 70.1 | 40.0 | 30.1 |
| | 04.25-04.30 | 67.1 | 41.0 | 70.1 | 40.2 | 29.9 |
| | 04.30-04.35 | 67.1 | 41.5 | 70.1 | 40.1 | 30.0 |
| | 04.35-04.40 | 67.1 | 41.5 | 70.1 | 40.1 | 30.0 |
| | 04.40-04.45 | 67.2 | 42.4 | 70.2 | 40.2 | 30.0 |
| | 04.45-04.50 | 67.1 | 43.7 | 70.1 | 41.0 | 29.1 |
| | 04.50-04.55 | 67.0 | 42.5 | 70.0 | 40.8 | 29.2 |
| | 04.55-05.00 | 67.0 | 43.2 | 70.0 | 40.9 | 29.1 |
| 15. | 05.00-05.05 | 67.0 | 44.7 | 70.0 | 41.6 | 28.4 |
| | 05.05-05.10 | 67.1 | 43.7 | 70.1 | 41.6 | 28.5 |
| | 05.10-05.15 | 67.0 | 44.8 | 70.0 | 42.2 | 27.8 |
| | 05.15-05.20 | 67.0 | 45.4 | 70.0 | 41.8 | 28.2 |
| | 05.20-05.25 | 66.9 | 48.2 | 69.8 | 42.9 | 26.9 |
| | 05.25-05.30 | 66.9 | 46.0 | 69.9 | 42.6 | 27.3 |
| | 05.30-05.35 | 66.9 | 46.7 | 69.9 | 42.0 | 27.9 |
| | 05.35-05.40 | 66.9 | 47.9 | 69.8 | 42.3 | 27.5 |
| | 05.40-05.45 | 66.9 | 45.8 | 69.9 | 42.8 | 27.1 |
| | 05.45-05.50 | 66.9 | 44.4 | 69.9 | 41.5 | 28.4 |
| | 05.50-05.55 | 66.9 | 44.8 | 69.9 | 41.6 | 28.3 |
| | 05.55-06.00 | 66.9 | 44.2 | 69.9 | 41.3 | 28.6 |
| 16. | 06.00-07.00 | 67.0 | 41.4 | 67.0 | 38.4 | 28.6 |
| 17. | 07.00-08.00 | 67.1 | 46.4 | 67.1 | 39.9 | 27.2 |
| 18. | 08.00-09.00 | 67.3 | 50.7 | 67.2 | 43.3 | 23.9 |
| 19. | 09.00-10.00 | 67.1 | 54.4 | 66.9 | 43.5 | 23.4 |
| 20. | 10.00-11.00 | 67.0 | 50.3 | 66.9 | 43.6 | 23.3 |
| 21. | 11.00-12.00 | 67.0 | 57.9 | 66.4 | 47.2 | 19.2 |
| 22. | 12.00-13.00 | 67.0 | 54.3 | 66.8 | 47.6 | 19.2 |
| 23. | 13.00-14.00 | 66.8 | 60.7 | 65.6 | 50.4 | 15.2 |
| 24. | 14.00-15.00 | 66.7 | 52.2 | 66.5 | 40.9 | 25.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/27-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(27/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระถิ่น | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 66.6 | 52.6 | 66.4 | 45.3 | 21.1 |
| 2. | 16.00-17.00 | 66.6 | 51.8 | 66.5 | 45.0 | 21.5 |
| 3. | 17.00-18.00 | 66.6 | 54.3 | 66.3 | 44.9 | 21.4 |
| 4. | 18.00-19.00 | 66.3 | 55.6 | 65.9 | 52.8 | 13.1 |
| 5. | 19.00-20.00 | 66.4 | 55.5 | 66.0 | 38.7 | 27.3 |
| 6. | 20.00-21.00 | 66.2 | 50.3 | 66.1 | 39.5 | 26.6 |
| 7. | 21.00-22.00 | 66.1 | 43.5 | 66.1 | 38.2 | 27.9 |
| 8. | 22.00-22.05 | 66.4 | 40.2 | 69.4 | 37.5 | 31.9 |
| | 22.05-22.10 | 66.4 | 40.1 | 69.4 | 37.7 | 31.7 |
| | 22.10-22.15 | 66.4 | 40.5 | 69.4 | 38.6 | 30.8 |
| | 22.15-22.20 | 66.4 | 40.5 | 69.4 | 38.3 | 31.1 |
| | 22.20-22.25 | 66.5 | 43.6 | 69.5 | 37.7 | 31.8 |
| | 22.25-22.30 | 66.5 | 40.2 | 69.5 | 38.4 | 31.1 |
| | 22.30-22.35 | 66.6 | 40.4 | 69.6 | 38.5 | 31.1 |
| | 22.35-22.40 | 66.7 | 43.9 | 69.7 | 38.3 | 31.4 |
| | 22.40-22.45 | 66.6 | 41.2 | 69.6 | 38.1 | 31.5 |
| | 22.45-22.50 | 66.6 | 42.6 | 69.6 | 38.6 | 31.0 |
| | 22.50-22.55 | 66.6 | 41.2 | 69.6 | 39.6 | 30.0 |
| | 22.55-23.00 | 66.6 | 40.6 | 69.6 | 39.3 | 30.3 |
| 9. | 23.00-23.05 | 66.6 | 41.3 | 69.6 | 39.5 | 30.1 |
| | 23.05-23.10 | 66.6 | 40.9 | 69.6 | 39.3 | 30.3 |
| | 23.10-23.15 | 66.6 | 41.0 | 69.6 | 39.3 | 30.3 |
| | 23.15-23.20 | 66.6 | 40.9 | 69.6 | 39.5 | 30.1 |
| | 23.20-23.25 | 66.6 | 40.4 | 69.6 | 39.5 | 30.1 |
| | 23.25-23.30 | 66.6 | 40.3 | 69.6 | 39.5 | 30.1 |
| | 23.30-23.35 | 66.6 | 41.1 | 69.6 | 39.7 | 29.9 |
| | 23.35-23.40 | 66.6 | 40.9 | 69.6 | 39.7 | 29.9 |
| | 23.40-23.45 | 66.6 | 41.4 | 69.6 | 40.1 | 29.5 |
| | 23.45-23.50 | 66.7 | 42.1 | 69.7 | 41.0 | 28.7 |
| | 23.50-23.55 | 66.7 | 42.0 | 69.7 | 41.0 | 28.7 |
| | 23.55-00.00 | 66.7 | 42.1 | 69.7 | 40.9 | 28.8 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(27/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระเทียม | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 66.7 | 41.7 | 69.7 | 40.7 | 29.0 |
| | 00.05-00.10 | 66.9 | 41.6 | 69.9 | 40.7 | 29.2 |
| | 00.10-00.15 | 67.0 | 41.2 | 70.0 | 40.2 | 29.8 |
| | 00.15-00.20 | 67.0 | 41.1 | 70.0 | 39.7 | 30.3 |
| | 00.20-00.25 | 67.0 | 40.8 | 70.0 | 39.7 | 30.3 |
| | 00.25-00.30 | 66.9 | 41.0 | 69.9 | 40.2 | 29.7 |
| | 00.30-00.35 | 66.9 | 40.5 | 69.9 | 39.5 | 30.4 |
| | 00.35-00.40 | 66.9 | 40.1 | 69.9 | 39.3 | 30.6 |
| | 00.40-00.45 | 66.8 | 40.2 | 69.8 | 39.3 | 30.5 |
| | 00.45-00.50 | 66.8 | 40.4 | 69.8 | 39.6 | 30.2 |
| 11. | 00.50-00.55 | 66.9 | 43.5 | 69.9 | 38.6 | 31.3 |
| | 00.55-01.00 | 66.7 | 43.8 | 69.7 | 38.9 | 30.8 |
| | 01.00-01.05 | 66.7 | 40.3 | 69.7 | 39.4 | 30.3 |
| | 01.05-01.10 | 66.7 | 40.3 | 69.7 | 39.5 | 30.2 |
| | 01.10-01.15 | 66.8 | 40.6 | 69.8 | 39.6 | 30.2 |
| | 01.15-01.20 | 66.7 | 41.1 | 69.7 | 39.9 | 29.8 |
| | 01.20-01.25 | 66.9 | 41.4 | 69.9 | 40.2 | 29.7 |
| | 01.25-01.30 | 66.9 | 42.2 | 69.9 | 40.1 | 29.8 |
| | 01.30-01.35 | 67.0 | 41.2 | 70.0 | 39.9 | 30.1 |
| | 01.35-01.40 | 66.9 | 41.1 | 69.9 | 40.1 | 29.8 |
| 12. | 01.40-01.45 | 66.9 | 41.2 | 69.9 | 40.1 | 29.8 |
| | 01.45-01.50 | 67.0 | 41.0 | 70.0 | 39.9 | 30.1 |
| | 01.50-01.55 | 67.0 | 41.2 | 70.0 | 40.3 | 29.7 |
| | 01.55-02.00 | 67.0 | 40.8 | 70.0 | 39.9 | 30.1 |
| | 02.00-02.05 | 67.0 | 41.1 | 70.0 | 40.1 | 29.9 |
| | 02.05-02.10 | 66.9 | 40.7 | 69.9 | 39.7 | 30.2 |
| | 02.10-02.15 | 66.9 | 41.4 | 69.9 | 40.3 | 29.6 |
| | 02.15-02.20 | 66.9 | 41.4 | 69.9 | 40.2 | 29.7 |
| | 02.20-02.25 | 66.8 | 41.0 | 69.8 | 39.9 | 29.9 |
| | 02.25-02.30 | 66.8 | 41.1 | 69.8 | 40.1 | 29.7 |
| 13. | 02.30-02.35 | 66.7 | 41.0 | 69.7 | 40.0 | 29.7 |
| | 02.35-02.40 | 66.8 | 40.6 | 69.8 | 39.6 | 30.2 |
| | 02.40-02.45 | 66.8 | 41.0 | 69.8 | 39.8 | 30.0 |
| | 02.45-02.50 | 66.7 | 40.7 | 69.7 | 39.6 | 30.1 |
| | 02.50-02.55 | 66.7 | 40.8 | 69.7 | 39.6 | 30.1 |
| | 02.55-03.00 | 66.7 | 40.7 | 69.7 | 39.3 | 30.4 |
| | 03.00-03.05 | 66.8 | 40.3 | 69.8 | 39.3 | 30.5 |
| | 03.05-03.10 | 66.7 | 40.2 | 69.7 | 39.4 | 30.3 |
| | 03.10-03.15 | 66.7 | 40.3 | 69.7 | 39.5 | 30.2 |
| | 03.15-03.20 | 66.6 | 40.6 | 69.6 | 39.7 | 29.9 |
| | 03.20-03.25 | 66.6 | 41.1 | 69.6 | 40.1 | 29.5 |
| | 03.25-03.30 | 66.8 | 40.9 | 69.8 | 40.0 | 29.8 |
| | 03.30-03.35 | 66.7 | 40.8 | 69.7 | 40.3 | 29.4 |
| | 03.35-03.40 | 66.7 | 40.7 | 69.7 | 40.3 | 29.4 |
| | 03.40-03.45 | 66.7 | 41.1 | 69.7 | 40.4 | 29.3 |
| | 03.45-03.50 | 66.7 | 40.8 | 69.7 | 40.0 | 29.7 |
| | 03.50-03.55 | 66.7 | 41.2 | 69.7 | 40.3 | 29.4 |
| | 03.55-04.00 | 66.7 | 41.2 | 69.7 | 40.1 | 29.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(27/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 66.7 | 41.6 | 69.7 | 40.2 | 29.5 |
| | 04.05-04.10 | 66.8 | 41.8 | 69.8 | 40.1 | 29.7 |
| | 04.10-04.15 | 66.7 | 41.3 | 69.7 | 40.4 | 29.3 |
| | 04.15-04.20 | 66.7 | 41.7 | 69.7 | 40.6 | 29.1 |
| | 04.20-04.25 | 66.7 | 41.2 | 69.7 | 40.0 | 29.7 |
| | 04.25-04.30 | 66.8 | 41.0 | 69.8 | 40.2 | 29.6 |
| | 04.30-04.35 | 66.8 | 41.5 | 69.8 | 40.1 | 29.7 |
| | 04.35-04.40 | 66.7 | 41.5 | 69.7 | 40.1 | 29.6 |
| | 04.40-04.45 | 66.9 | 42.4 | 69.9 | 40.2 | 29.7 |
| | 04.45-04.50 | 66.9 | 43.7 | 69.9 | 41.0 | 28.9 |
| 15. | 04.50-04.55 | 67.1 | 42.5 | 70.1 | 40.8 | 29.3 |
| | 04.55-05.00 | 67.0 | 43.2 | 70.0 | 40.9 | 29.1 |
| | 05.00-05.05 | 67.0 | 44.7 | 70.0 | 41.6 | 28.4 |
| | 05.05-05.10 | 67.0 | 43.7 | 70.0 | 41.6 | 28.4 |
| | 05.10-05.15 | 67.1 | 44.8 | 70.1 | 42.2 | 27.9 |
| | 05.15-05.20 | 67.1 | 45.4 | 70.1 | 41.8 | 28.3 |
| | 05.20-05.25 | 67.1 | 48.2 | 70.0 | 42.9 | 27.1 |
| | 05.25-05.30 | 67.1 | 46.0 | 70.1 | 42.6 | 27.5 |
| | 05.30-05.35 | 67.2 | 46.7 | 70.2 | 42.0 | 28.2 |
| | 05.35-05.40 | 67.2 | 47.9 | 70.1 | 42.3 | 27.8 |
| 16. | 05.40-05.45 | 67.2 | 45.8 | 70.2 | 42.8 | 27.4 |
| | 05.45-05.50 | 67.1 | 44.4 | 70.1 | 41.5 | 28.6 |
| | 05.50-05.55 | 67.2 | 44.8 | 70.2 | 41.6 | 28.6 |
| | 05.55-06.00 | 67.1 | 44.2 | 70.1 | 41.3 | 28.8 |
| | 06.00-07.00 | 67.4 | 41.4 | 67.4 | 38.4 | 29.0 |
| | 07.00-08.00 | 67.4 | 46.4 | 67.4 | 39.9 | 27.5 |
| | 08.00-09.00 | 67.3 | 50.7 | 67.2 | 43.3 | 23.9 |
| | 09.00-10.00 | 67.2 | 54.4 | 67.0 | 43.5 | 23.5 |
| | 10.00-11.00 | 67.1 | 50.3 | 67.0 | 43.6 | 23.4 |
| | 11.00-12.00 | 67.0 | 57.9 | 66.4 | 47.2 | 19.2 |
| 23. | 12.00-13.00 | 67.0 | 54.3 | 66.8 | 47.6 | 19.2 |
| | 13.00-14.00 | 66.8 | 60.7 | 65.6 | 50.4 | 15.2 |
| 24. | 14.00-15.00 | 66.6 | 52.2 | 66.4 | 40.9 | 25.5 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/28-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(28/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระถิ่น | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 66.4 | 52.6 | 66.2 | 45.3 | 20.9 |
| 2. | 16.00-17.00 | 66.3 | 51.8 | 66.1 | 45.0 | 21.1 |
| 3. | 17.00-18.00 | 66.0 | 54.3 | 65.7 | 44.9 | 20.8 |
| 4. | 18.00-19.00 | 66.7 | 55.6 | 66.3 | 52.8 | 13.5 |
| 5. | 19.00-20.00 | 66.6 | 55.5 | 66.2 | 38.7 | 27.5 |
| 6. | 20.00-21.00 | 66.4 | 50.3 | 66.3 | 39.5 | 26.8 |
| 7. | 21.00-22.00 | 66.6 | 43.5 | 66.6 | 38.2 | 28.4 |
| 8. | 22.00-22.05 | 66.8 | 40.2 | 69.8 | 37.5 | 32.3 |
| | 22.05-22.10 | 66.6 | 40.1 | 69.6 | 37.7 | 31.9 |
| | 22.10-22.15 | 66.5 | 40.5 | 69.5 | 38.6 | 30.9 |
| | 22.15-22.20 | 66.6 | 40.5 | 69.6 | 38.3 | 31.3 |
| | 22.20-22.25 | 66.7 | 43.6 | 69.7 | 37.7 | 32.0 |
| | 22.25-22.30 | 66.8 | 40.2 | 69.8 | 38.4 | 31.4 |
| | 22.30-22.35 | 66.8 | 40.4 | 69.8 | 38.5 | 31.3 |
| | 22.35-22.40 | 67.0 | 43.9 | 70.0 | 38.3 | 31.7 |
| | 22.40-22.45 | 67.1 | 41.2 | 70.1 | 38.1 | 32.0 |
| | 22.45-22.50 | 67.0 | 42.6 | 70.0 | 38.6 | 31.4 |
| | 22.50-22.55 | 66.9 | 41.2 | 69.9 | 39.6 | 30.3 |
| | 22.55-23.00 | 66.7 | 40.6 | 69.7 | 39.3 | 30.4 |
| 9. | 23.00-23.05 | 66.7 | 41.3 | 69.7 | 39.5 | 30.2 |
| | 23.05-23.10 | 66.6 | 40.9 | 69.6 | 39.3 | 30.3 |
| | 23.10-23.15 | 66.8 | 41.0 | 69.8 | 39.3 | 30.5 |
| | 23.15-23.20 | 66.7 | 40.9 | 69.7 | 39.5 | 30.2 |
| | 23.20-23.25 | 66.8 | 40.4 | 69.8 | 39.5 | 30.3 |
| | 23.25-23.30 | 66.8 | 40.3 | 69.8 | 39.5 | 30.3 |
| | 23.30-23.35 | 66.8 | 41.1 | 69.8 | 39.7 | 30.1 |
| | 23.35-23.40 | 66.8 | 40.9 | 69.8 | 39.7 | 30.1 |
| | 23.40-23.45 | 66.7 | 41.4 | 69.7 | 40.1 | 29.6 |
| | 23.45-23.50 | 66.8 | 42.1 | 69.8 | 41.0 | 28.8 |
| | 23.50-23.55 | 67.0 | 42.0 | 70.0 | 41.0 | 29.0 |
| | 23.55-00.00 | 67.1 | 42.1 | 70.1 | 40.9 | 29.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(28/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เสียงชุมชนบ้านโคกกระดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 67.0 | 41.7 | 70.0 | 40.7 | 29.3 |
| | 00.05-00.10 | 67.1 | 41.6 | 70.1 | 40.7 | 29.4 |
| | 00.10-00.15 | 67.0 | 41.2 | 70.0 | 40.2 | 29.8 |
| | 00.15-00.20 | 66.9 | 41.1 | 69.9 | 39.7 | 30.2 |
| | 00.20-00.25 | 67.0 | 40.8 | 70.0 | 39.7 | 30.3 |
| | 00.25-00.30 | 67.0 | 41.0 | 70.0 | 40.2 | 29.8 |
| | 00.30-00.35 | 67.1 | 40.5 | 70.1 | 39.5 | 30.6 |
| | 00.35-00.40 | 67.0 | 40.1 | 70.0 | 39.3 | 30.7 |
| | 00.40-00.45 | 66.9 | 40.2 | 69.9 | 39.3 | 30.6 |
| | 00.45-00.50 | 66.9 | 40.4 | 69.9 | 39.6 | 30.3 |
| | 00.50-00.55 | 67.0 | 43.5 | 70.0 | 38.6 | 31.4 |
| 11. | 00.55-01.00 | 66.9 | 43.8 | 69.9 | 38.9 | 31.0 |
| | 01.00-01.05 | 67.0 | 40.3 | 70.0 | 39.4 | 30.6 |
| | 01.05-01.10 | 67.0 | 40.3 | 70.0 | 39.5 | 30.5 |
| | 01.10-01.15 | 67.0 | 40.6 | 70.0 | 39.6 | 30.4 |
| | 01.15-01.20 | 66.9 | 41.1 | 69.9 | 39.9 | 30.0 |
| | 01.20-01.25 | 67.0 | 41.4 | 70.0 | 40.2 | 29.8 |
| | 01.25-01.30 | 67.0 | 42.2 | 70.0 | 40.1 | 29.9 |
| | 01.30-01.35 | 66.9 | 41.2 | 69.9 | 39.9 | 30.0 |
| | 01.35-01.40 | 66.9 | 41.1 | 69.9 | 40.1 | 29.8 |
| | 01.40-01.45 | 67.0 | 41.2 | 70.0 | 40.1 | 29.9 |
| | 01.45-01.50 | 67.1 | 41.0 | 70.1 | 39.9 | 30.2 |
| 12. | 01.50-01.55 | 66.9 | 41.2 | 69.9 | 40.3 | 29.6 |
| | 01.55-02.00 | 67.0 | 40.8 | 70.0 | 39.9 | 30.1 |
| | 02.00-02.05 | 67.1 | 41.1 | 70.1 | 40.1 | 30.0 |
| | 02.05-02.10 | 67.1 | 40.7 | 70.1 | 39.7 | 30.4 |
| | 02.10-02.15 | 67.1 | 41.4 | 70.1 | 40.3 | 29.8 |
| | 02.15-02.20 | 67.1 | 41.4 | 70.1 | 40.2 | 29.9 |
| | 02.20-02.25 | 67.2 | 41.0 | 70.2 | 39.9 | 30.3 |
| | 02.25-02.30 | 67.2 | 41.1 | 70.2 | 40.1 | 30.1 |
| | 02.30-02.35 | 67.2 | 41.0 | 70.2 | 40.0 | 30.2 |
| | 02.35-02.40 | 67.2 | 40.6 | 70.2 | 39.6 | 30.6 |
| | 02.40-02.45 | 67.2 | 41.0 | 70.2 | 39.8 | 30.4 |
| 13. | 02.45-02.50 | 67.3 | 40.7 | 70.3 | 39.6 | 30.7 |
| | 02.50-02.55 | 67.3 | 40.8 | 70.3 | 39.6 | 30.7 |
| | 02.55-03.00 | 67.3 | 40.7 | 70.3 | 39.3 | 31.0 |
| | 03.00-03.05 | 67.2 | 40.3 | 70.2 | 39.3 | 30.9 |
| | 03.05-03.10 | 67.2 | 40.2 | 70.2 | 39.4 | 30.8 |
| | 03.10-03.15 | 67.2 | 40.3 | 70.2 | 39.5 | 30.7 |
| | 03.15-03.20 | 67.3 | 40.6 | 70.3 | 39.7 | 30.6 |
| | 03.20-03.25 | 67.1 | 41.1 | 70.1 | 40.1 | 30.0 |
| | 03.25-03.30 | 67.2 | 40.9 | 70.2 | 40.0 | 30.2 |
| | 03.30-03.35 | 67.3 | 40.8 | 70.3 | 40.3 | 30.0 |
| | 03.35-03.40 | 67.2 | 40.7 | 70.2 | 40.3 | 29.9 |
| | 03.40-03.45 | 67.2 | 41.1 | 70.2 | 40.4 | 29.8 |
| | 03.45-03.50 | 67.2 | 40.8 | 70.2 | 40.0 | 30.2 |
| | 03.50-03.55 | 67.1 | 41.2 | 70.1 | 40.3 | 29.8 |
| | 03.55-04.00 | 67.2 | 41.2 | 70.2 | 40.1 | 30.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(28/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านโคกกระดิน | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 67.2 | 41.6 | 70.2 | 40.2 | 30.0 |
| | 04.05-04.10 | 67.3 | 41.8 | 70.3 | 40.1 | 30.2 |
| | 04.10-04.15 | 67.2 | 41.3 | 70.2 | 40.4 | 29.8 |
| | 04.15-04.20 | 67.2 | 41.7 | 70.2 | 40.6 | 29.6 |
| | 04.20-04.25 | 67.2 | 41.2 | 70.2 | 40.0 | 30.2 |
| | 04.25-04.30 | 67.1 | 41.0 | 70.1 | 40.2 | 29.9 |
| | 04.30-04.35 | 67.1 | 41.5 | 70.1 | 40.1 | 30.0 |
| | 04.35-04.40 | 67.2 | 41.5 | 70.2 | 40.1 | 30.1 |
| | 04.40-04.45 | 67.3 | 42.4 | 70.3 | 40.2 | 30.1 |
| | 04.45-04.50 | 67.3 | 43.7 | 70.3 | 41.0 | 29.3 |
| | 04.50-04.55 | 67.4 | 42.5 | 70.4 | 40.8 | 29.6 |
| 15. | 04.55-05.00 | 67.4 | 43.2 | 70.4 | 40.9 | 29.5 |
| | 05.00-05.05 | 67.4 | 44.7 | 70.4 | 41.6 | 28.8 |
| | 05.05-05.10 | 67.3 | 43.7 | 70.3 | 41.6 | 28.7 |
| | 05.10-05.15 | 67.4 | 44.8 | 70.4 | 42.2 | 28.2 |
| | 05.15-05.20 | 67.5 | 45.4 | 70.5 | 41.8 | 28.7 |
| | 05.20-05.25 | 67.5 | 48.2 | 70.4 | 42.9 | 27.5 |
| | 05.25-05.30 | 67.6 | 46.0 | 70.6 | 42.6 | 28.0 |
| | 05.30-05.35 | 67.6 | 46.7 | 70.6 | 42.0 | 28.6 |
| | 05.35-05.40 | 67.6 | 47.9 | 70.6 | 42.3 | 28.3 |
| | 05.40-05.45 | 67.5 | 45.8 | 70.5 | 42.8 | 27.7 |
| | 05.45-05.50 | 67.6 | 44.4 | 70.6 | 41.5 | 29.1 |
| 16. | 05.50-05.55 | 67.5 | 44.8 | 70.5 | 41.6 | 28.9 |
| | 05.55-06.00 | 67.4 | 44.2 | 70.4 | 41.3 | 29.1 |
| | 06.00-07.00 | 67.4 | 41.4 | 67.4 | 38.4 | 29.0 |
| | 07.00-08.00 | 67.7 | 46.4 | 67.7 | 39.9 | 27.8 |
| | 08.00-09.00 | 66.9 | 50.7 | 66.8 | 43.3 | 23.5 |
| | 09.00-10.00 | 67.2 | 54.4 | 67.0 | 43.5 | 23.5 |
| | 10.00-11.00 | 67.1 | 50.3 | 67.0 | 43.6 | 23.4 |
| | 11.00-12.00 | 66.9 | 57.9 | 66.3 | 47.2 | 19.1 |
| | 12.00-13.00 | 66.9 | 54.3 | 66.7 | 47.6 | 19.1 |
| | 13.00-14.00 | 66.9 | 60.7 | 65.7 | 50.4 | 15.3 |
| | 14.00-15.00 | 66.8 | 52.2 | 66.6 | 40.9 | 25.7 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150
Job No. : S660183/June

Report No. : 1646/2023/29-42
Report Date : June 13, 2023
Sampling Date : April 19-26 & June 4-5, 2023
Type of Sample : เสียงรบกวน

(30/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 67.8 | 53.9 | 67.6 | 45.1 | 22.5 |
| 2. | 16.00-17.00 | 66.4 | 53.3 | 66.2 | 45.3 | 20.9 |
| 3. | 17.00-18.00 | 65.7 | 53.3 | 65.4 | 44.6 | 20.8 |
| 4. | 18.00-19.00 | 65.1 | 53.7 | 64.8 | 45.5 | 19.3 |
| 5. | 19.00-20.00 | 65.3 | 49.3 | 65.2 | 40.6 | 24.6 |
| 6. | 20.00-21.00 | 65.6 | 43.6 | 65.6 | 41.9 | 23.7 |
| 7. | 21.00-22.00 | 66.3 | 42.9 | 66.3 | 42.1 | 24.2 |
| 8. | 22.00-22.05 | 65.8 | 41.8 | 68.8 | 41.4 | 27.4 |
| | 22.05-22.10 | 65.9 | 42.0 | 68.9 | 41.4 | 27.5 |
| | 22.10-22.15 | 65.7 | 42.0 | 68.7 | 41.5 | 27.2 |
| | 22.15-22.20 | 65.6 | 44.5 | 68.6 | 41.7 | 26.9 |
| | 22.20-22.25 | 65.6 | 42.5 | 68.6 | 41.8 | 26.8 |
| | 22.25-22.30 | 65.5 | 44.2 | 68.5 | 41.8 | 26.7 |
| | 22.30-22.35 | 65.5 | 42.0 | 68.5 | 41.7 | 26.8 |
| | 22.35-22.40 | 65.5 | 42.5 | 68.5 | 41.8 | 26.7 |
| | 22.40-22.45 | 65.5 | 42.4 | 68.5 | 41.7 | 26.8 |
| | 22.45-22.50 | 65.6 | 44.5 | 68.6 | 41.8 | 26.8 |
| | 22.50-22.55 | 65.5 | 42.5 | 68.5 | 41.5 | 27.0 |
| | 22.55-23.00 | 65.3 | 41.9 | 68.3 | 41.6 | 26.7 |
| 9. | 23.00-23.05 | 65.2 | 41.8 | 68.2 | 41.5 | 26.7 |
| | 23.05-23.10 | 65.2 | 41.8 | 68.2 | 41.5 | 26.7 |
| | 23.10-23.15 | 65.1 | 41.9 | 68.1 | 41.7 | 26.4 |
| | 23.15-23.20 | 65.3 | 42.1 | 68.3 | 41.6 | 26.7 |
| | 23.20-23.25 | 65.3 | 42.0 | 68.3 | 41.8 | 26.5 |
| | 23.25-23.30 | 65.4 | 42.1 | 68.4 | 41.8 | 26.6 |
| | 23.30-23.35 | 65.6 | 43.6 | 68.6 | 41.8 | 26.8 |
| | 23.35-23.40 | 65.3 | 42.4 | 68.3 | 41.6 | 26.7 |
| | 23.40-23.45 | 65.3 | 42.6 | 68.3 | 41.8 | 26.5 |
| | 23.45-23.50 | 65.3 | 42.6 | 68.3 | 41.8 | 26.5 |
| | 23.50-23.55 | 65.4 | 42.2 | 68.4 | 41.7 | 26.7 |
| | 23.55-00.00 | 65.5 | 42.1 | 68.5 | 41.6 | 26.9 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(29/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 66.6 | 42.2 | 69.6 | 41.7 | 27.9 |
| | 00.05-00.10 | 67.0 | 42.0 | 70.0 | 41.5 | 28.5 |
| | 00.10-00.15 | 65.6 | 41.9 | 68.6 | 41.5 | 27.1 |
| | 00.15-00.20 | 65.6 | 41.9 | 68.6 | 41.4 | 27.2 |
| | 00.20-00.25 | 65.5 | 41.9 | 68.5 | 41.4 | 27.1 |
| | 00.25-00.30 | 65.4 | 42.1 | 68.4 | 41.6 | 26.8 |
| | 00.30-00.35 | 65.4 | 42.1 | 68.4 | 41.7 | 26.7 |
| | 00.35-00.40 | 65.3 | 41.9 | 68.3 | 41.5 | 26.8 |
| | 00.40-00.45 | 65.3 | 42.2 | 68.3 | 41.7 | 26.6 |
| | 00.45-00.50 | 65.1 | 42.2 | 68.1 | 41.7 | 26.4 |
| 11. | 00.50-00.55 | 65.1 | 42.0 | 68.1 | 41.6 | 26.5 |
| | 00.55-01.00 | 65.1 | 41.9 | 68.1 | 41.5 | 26.6 |
| | 01.00-01.05 | 65.0 | 42.1 | 68.0 | 41.7 | 26.3 |
| | 01.05-01.10 | 65.0 | 42.0 | 68.0 | 41.6 | 26.4 |
| | 01.10-01.15 | 64.8 | 42.1 | 67.8 | 41.8 | 26.0 |
| | 01.15-01.20 | 64.8 | 42.1 | 67.8 | 41.8 | 26.0 |
| | 01.20-01.25 | 64.8 | 42.3 | 67.8 | 41.8 | 26.0 |
| | 01.25-01.30 | 64.7 | 42.0 | 67.7 | 41.6 | 26.1 |
| | 01.30-01.35 | 65.0 | 41.9 | 68.0 | 41.6 | 26.4 |
| | 01.35-01.40 | 65.0 | 42.0 | 68.0 | 41.5 | 26.5 |
| 12. | 01.40-01.45 | 64.9 | 42.0 | 67.9 | 41.7 | 26.2 |
| | 01.45-01.50 | 65.0 | 42.1 | 68.0 | 41.8 | 26.2 |
| | 01.50-01.55 | 65.0 | 42.2 | 68.0 | 41.7 | 26.3 |
| | 01.55-02.00 | 65.0 | 42.2 | 68.0 | 41.8 | 26.2 |
| | 02.00-02.05 | 65.0 | 42.0 | 68.0 | 41.6 | 26.4 |
| | 02.05-02.10 | 65.1 | 42.0 | 68.1 | 41.7 | 26.4 |
| | 02.10-02.15 | 65.2 | 41.9 | 68.2 | 41.6 | 26.6 |
| | 02.15-02.20 | 65.1 | 41.9 | 68.1 | 41.6 | 26.5 |
| | 02.20-02.25 | 65.1 | 42.0 | 68.1 | 41.7 | 26.4 |
| | 02.25-02.30 | 65.0 | 42.0 | 68.0 | 41.7 | 26.3 |
| 13. | 02.30-02.35 | 65.1 | 41.9 | 68.1 | 41.7 | 26.4 |
| | 02.35-02.40 | 65.1 | 41.8 | 68.1 | 41.4 | 26.7 |
| | 02.40-02.45 | 65.2 | 41.7 | 68.2 | 41.4 | 26.8 |
| | 02.45-02.50 | 65.2 | 41.8 | 68.2 | 41.5 | 26.7 |
| | 02.50-02.55 | 65.4 | 41.6 | 68.4 | 41.3 | 27.1 |
| | 02.55-03.00 | 65.3 | 41.8 | 68.3 | 41.5 | 26.8 |
| | 03.00-03.05 | 65.3 | 41.8 | 68.3 | 41.5 | 26.8 |
| | 03.05-03.10 | 65.4 | 41.7 | 68.4 | 41.5 | 26.9 |
| | 03.10-03.15 | 65.1 | 41.8 | 68.1 | 41.5 | 26.6 |
| | 03.15-03.20 | 65.0 | 41.8 | 68.0 | 41.4 | 26.6 |
| | 03.20-03.25 | 65.0 | 41.8 | 68.0 | 41.3 | 26.7 |
| | 03.25-03.30 | 65.2 | 42.0 | 68.2 | 41.6 | 26.6 |
| | 03.30-03.35 | 65.2 | 42.2 | 68.2 | 41.9 | 26.3 |
| | 03.35-03.40 | 65.3 | 42.3 | 68.3 | 41.9 | 26.4 |
| | 03.40-03.45 | 65.3 | 42.4 | 68.3 | 41.8 | 26.5 |
| | 03.45-03.50 | 65.4 | 42.2 | 68.4 | 41.9 | 26.5 |
| | 03.50-03.55 | 65.4 | 43.7 | 68.4 | 36.8 | 31.6 |
| | 03.55-04.00 | 65.5 | 48.4 | 68.4 | 36.7 | 31.7 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(29/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 65.6 | 37.7 | 68.6 | 37.1 | 31.5 |
| | 04.05-04.10 | 65.5 | 38.5 | 68.5 | 37.1 | 31.4 |
| | 04.10-04.15 | 65.7 | 38.1 | 68.7 | 37.1 | 31.6 |
| | 04.15-04.20 | 65.6 | 39.2 | 68.6 | 37.2 | 31.4 |
| | 04.20-04.25 | 65.7 | 38.3 | 68.7 | 37.1 | 31.6 |
| | 04.25-04.30 | 65.6 | 38.6 | 68.6 | 37.2 | 31.4 |
| | 04.30-04.35 | 65.7 | 37.9 | 68.7 | 37.2 | 31.5 |
| | 04.35-04.40 | 65.8 | 38.1 | 68.8 | 37.1 | 31.7 |
| | 04.40-04.45 | 65.7 | 38.1 | 68.7 | 37.3 | 31.4 |
| | 04.45-04.50 | 65.7 | 38.6 | 68.7 | 37.3 | 31.4 |
| | 04.50-04.55 | 65.9 | 38.5 | 68.9 | 37.0 | 31.9 |
| 15. | 04.55-05.00 | 65.8 | 39.7 | 68.8 | 37.4 | 31.4 |
| | 05.00-05.05 | 65.8 | 39.4 | 68.8 | 37.6 | 31.2 |
| | 05.05-05.10 | 65.8 | 39.6 | 68.8 | 37.9 | 30.9 |
| | 05.10-05.15 | 65.7 | 39.8 | 68.7 | 38.1 | 30.6 |
| | 05.15-05.20 | 65.6 | 47.0 | 68.5 | 38.4 | 30.1 |
| | 05.20-05.25 | 65.6 | 49.3 | 68.5 | 38.5 | 30.0 |
| | 05.25-05.30 | 65.6 | 42.2 | 68.6 | 38.8 | 29.8 |
| | 05.30-05.35 | 65.5 | 40.6 | 68.5 | 38.6 | 29.9 |
| | 05.35-05.40 | 65.5 | 41.3 | 68.5 | 38.2 | 30.3 |
| | 05.40-05.45 | 65.5 | 45.7 | 68.5 | 38.5 | 30.0 |
| | 05.45-05.50 | 65.5 | 41.4 | 68.5 | 38.0 | 30.5 |
| 16. | 05.50-05.55 | 65.5 | 41.3 | 68.5 | 38.0 | 30.5 |
| | 05.55-06.00 | 65.6 | 42.8 | 68.6 | 38.4 | 30.2 |
| | 06.00-07.00 | 65.5 | 44.9 | 65.5 | 38.0 | 27.5 |
| | 07.00-08.00 | 67.1 | 55.7 | 66.8 | 38.8 | 28.0 |
| | 08.00-09.00 | 66.8 | 56.8 | 66.3 | 40.2 | 26.1 |
| | 09.00-10.00 | 65.3 | 53.0 | 65.0 | 39.5 | 25.5 |
| | 10.00-11.00 | 66.3 | 48.7 | 66.2 | 41.7 | 24.5 |
| | 11.00-12.00 | 67.4 | 56.3 | 67.0 | 45.5 | 21.5 |
| | 12.00-13.00 | 66.1 | 51.3 | 66.0 | 45.3 | 20.7 |
| | 13.00-14.00 | 65.4 | 52.5 | 65.2 | 45.8 | 19.4 |
| | 14.00-15.00 | 65.9 | 61.0 | 64.2 | 44.6 | 19.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/30-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(30/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 66.4 | 53.9 | 66.1 | 45.1 | 21.0 |
| 2. | 16.00-17.00 | 65.6 | 53.3 | 65.3 | 45.3 | 20.0 |
| 3. | 17.00-18.00 | 67.3 | 53.3 | 67.1 | 44.6 | 22.5 |
| 4. | 18.00-19.00 | 65.2 | 53.7 | 64.9 | 45.5 | 19.4 |
| 5. | 19.00-20.00 | 65.5 | 49.3 | 65.4 | 40.6 | 24.8 |
| 6. | 20.00-21.00 | 65.7 | 43.6 | 65.7 | 41.9 | 23.8 |
| 7. | 21.00-22.00 | 66.5 | 42.9 | 66.5 | 42.1 | 24.4 |
| 8. | 22.00-22.05 | 65.3 | 41.8 | 68.3 | 41.4 | 26.9 |
| | 22.05-22.10 | 65.4 | 42.0 | 68.4 | 41.4 | 27.0 |
| | 22.10-22.15 | 65.3 | 42.0 | 68.3 | 41.5 | 26.8 |
| | 22.15-22.20 | 65.3 | 44.5 | 68.3 | 41.7 | 26.6 |
| | 22.20-22.25 | 65.3 | 42.5 | 68.3 | 41.8 | 26.5 |
| | 22.25-22.30 | 65.4 | 44.2 | 68.4 | 41.8 | 26.6 |
| | 22.30-22.35 | 65.3 | 42.0 | 68.3 | 41.7 | 26.6 |
| | 22.35-22.40 | 65.3 | 42.5 | 68.3 | 41.8 | 26.5 |
| | 22.40-22.45 | 65.3 | 42.4 | 68.3 | 41.7 | 26.6 |
| | 22.45-22.50 | 65.4 | 44.5 | 68.4 | 41.8 | 26.6 |
| | 22.50-22.55 | 65.2 | 42.5 | 68.2 | 41.5 | 26.7 |
| | 22.55-23.00 | 65.4 | 41.9 | 68.4 | 41.6 | 26.8 |
| 9. | 23.00-23.05 | 65.4 | 41.8 | 68.4 | 41.5 | 26.9 |
| | 23.05-23.10 | 65.3 | 41.8 | 68.3 | 41.5 | 26.8 |
| | 23.10-23.15 | 65.3 | 41.9 | 68.3 | 41.7 | 26.6 |
| | 23.15-23.20 | 65.4 | 42.1 | 68.4 | 41.6 | 26.8 |
| | 23.20-23.25 | 65.4 | 42.0 | 68.4 | 41.8 | 26.6 |
| | 23.25-23.30 | 65.4 | 42.1 | 68.4 | 41.8 | 26.6 |
| | 23.30-23.35 | 65.4 | 43.6 | 68.4 | 41.8 | 26.6 |
| | 23.35-23.40 | 65.5 | 42.4 | 68.5 | 41.6 | 26.9 |
| | 23.40-23.45 | 65.5 | 42.6 | 68.5 | 41.8 | 26.7 |
| | 23.45-23.50 | 65.8 | 42.6 | 68.8 | 41.8 | 27.0 |
| | 23.50-23.55 | 65.5 | 42.2 | 68.5 | 41.7 | 26.8 |
| | 23.55-00.00 | 65.5 | 42.1 | 68.5 | 41.6 | 26.9 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(30/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 65.4 | 42.2 | 68.4 | 41.7 | 26.7 |
| | 00.05-00.10 | 65.5 | 42.0 | 68.5 | 41.5 | 27.0 |
| | 00.10-00.15 | 65.4 | 41.9 | 68.4 | 41.5 | 26.9 |
| | 00.15-00.20 | 65.4 | 41.9 | 68.4 | 41.4 | 27.0 |
| | 00.20-00.25 | 65.5 | 41.9 | 68.5 | 41.4 | 27.1 |
| | 00.25-00.30 | 65.5 | 42.1 | 68.5 | 41.6 | 26.9 |
| | 00.30-00.35 | 65.4 | 42.1 | 68.4 | 41.7 | 26.7 |
| | 00.35-00.40 | 65.4 | 41.9 | 68.4 | 41.5 | 26.9 |
| | 00.40-00.45 | 65.4 | 42.2 | 68.4 | 41.7 | 26.7 |
| | 00.45-00.50 | 65.3 | 42.2 | 68.3 | 41.7 | 26.6 |
| 11. | 00.50-00.55 | 65.4 | 42.0 | 68.4 | 41.6 | 26.8 |
| | 00.55-01.00 | 65.2 | 41.9 | 68.2 | 41.5 | 26.7 |
| | 01.00-01.05 | 65.0 | 42.1 | 68.0 | 41.7 | 26.3 |
| | 01.05-01.10 | 64.9 | 42.0 | 67.9 | 41.6 | 26.3 |
| | 01.10-01.15 | 64.9 | 42.1 | 67.9 | 41.8 | 26.1 |
| | 01.15-01.20 | 64.9 | 42.1 | 67.9 | 41.8 | 26.1 |
| | 01.20-01.25 | 65.0 | 42.3 | 68.0 | 41.8 | 26.2 |
| | 01.25-01.30 | 64.9 | 42.0 | 67.9 | 41.6 | 26.3 |
| | 01.30-01.35 | 64.9 | 41.9 | 67.9 | 41.6 | 26.3 |
| | 01.35-01.40 | 65.0 | 42.0 | 68.0 | 41.5 | 26.5 |
| 12. | 01.40-01.45 | 65.0 | 42.0 | 68.0 | 41.7 | 26.3 |
| | 01.45-01.50 | 65.0 | 42.1 | 68.0 | 41.8 | 26.2 |
| | 01.50-01.55 | 64.9 | 42.2 | 67.9 | 41.7 | 26.2 |
| | 01.55-02.00 | 64.9 | 42.2 | 67.9 | 41.8 | 26.1 |
| | 02.00-02.05 | 65.1 | 42.0 | 68.1 | 41.6 | 26.5 |
| | 02.05-02.10 | 65.0 | 42.0 | 68.0 | 41.7 | 26.3 |
| | 02.10-02.15 | 65.0 | 41.9 | 68.0 | 41.6 | 26.4 |
| | 02.15-02.20 | 65.1 | 41.9 | 68.1 | 41.6 | 26.5 |
| | 02.20-02.25 | 65.1 | 42.0 | 68.1 | 41.7 | 26.4 |
| | 02.25-02.30 | 65.2 | 42.0 | 68.2 | 41.7 | 26.5 |
| 13. | 02.30-02.35 | 65.1 | 41.9 | 68.1 | 41.7 | 26.4 |
| | 02.35-02.40 | 65.6 | 41.8 | 68.6 | 41.4 | 27.2 |
| | 02.40-02.45 | 65.3 | 41.7 | 68.3 | 41.4 | 26.9 |
| | 02.45-02.50 | 65.1 | 41.8 | 68.1 | 41.5 | 26.6 |
| | 02.50-02.55 | 65.2 | 41.6 | 68.2 | 41.3 | 26.9 |
| | 02.55-03.00 | 65.4 | 41.8 | 68.4 | 41.5 | 26.9 |
| | 03.00-03.05 | 65.2 | 41.8 | 68.2 | 41.5 | 26.7 |
| | 03.05-03.10 | 65.3 | 41.7 | 68.3 | 41.5 | 26.8 |
| | 03.10-03.15 | 65.3 | 41.8 | 68.3 | 41.5 | 26.8 |
| | 03.15-03.20 | 65.2 | 41.8 | 68.2 | 41.4 | 26.8 |
| | 03.20-03.25 | 65.2 | 41.8 | 68.2 | 41.3 | 26.9 |
| | 03.25-03.30 | 65.1 | 42.0 | 68.1 | 41.6 | 26.5 |
| | 03.30-03.35 | 65.1 | 42.2 | 68.1 | 41.9 | 26.2 |
| | 03.35-03.40 | 65.1 | 42.3 | 68.1 | 41.9 | 26.2 |
| | 03.40-03.45 | 65.5 | 42.4 | 68.5 | 41.8 | 26.7 |
| | 03.45-03.50 | 65.4 | 42.2 | 68.4 | 41.9 | 26.5 |
| | 03.50-03.55 | 65.3 | 43.7 | 68.3 | 36.8 | 31.5 |
| | 03.55-04.00 | 65.3 | 48.4 | 68.2 | 36.7 | 31.5 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(30/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 65.4 | 37.7 | 68.4 | 37.1 | 31.3 |
| | 04.05-04.10 | 65.2 | 38.5 | 68.2 | 37.1 | 31.1 |
| | 04.10-04.15 | 65.4 | 38.1 | 68.4 | 37.1 | 31.3 |
| | 04.15-04.20 | 65.4 | 39.2 | 68.4 | 37.2 | 31.2 |
| | 04.20-04.25 | 65.3 | 38.3 | 68.3 | 37.1 | 31.2 |
| | 04.25-04.30 | 65.4 | 38.6 | 68.4 | 37.2 | 31.2 |
| | 04.30-04.35 | 65.4 | 37.9 | 68.4 | 37.2 | 31.2 |
| | 04.35-04.40 | 65.3 | 38.1 | 68.3 | 37.1 | 31.2 |
| | 04.40-04.45 | 65.4 | 38.1 | 68.4 | 37.3 | 31.1 |
| | 04.45-04.50 | 65.4 | 38.6 | 68.4 | 37.3 | 31.1 |
| 15. | 04.50-04.55 | 65.3 | 38.5 | 68.3 | 37.0 | 31.3 |
| | 04.55-05.00 | 65.4 | 39.7 | 68.4 | 37.4 | 31.0 |
| | 05.00-05.05 | 65.4 | 39.4 | 68.4 | 37.6 | 30.8 |
| | 05.05-05.10 | 65.4 | 39.6 | 68.4 | 37.9 | 30.5 |
| | 05.10-05.15 | 65.5 | 39.8 | 68.5 | 38.1 | 30.4 |
| | 05.15-05.20 | 65.3 | 47.0 | 68.2 | 38.4 | 29.8 |
| | 05.20-05.25 | 65.3 | 49.3 | 68.2 | 38.5 | 29.7 |
| | 05.25-05.30 | 65.3 | 42.2 | 68.3 | 38.8 | 29.5 |
| | 05.30-05.35 | 65.4 | 40.6 | 68.4 | 38.6 | 29.8 |
| | 05.35-05.40 | 65.4 | 41.3 | 68.4 | 38.2 | 30.2 |
| 16. | 05.40-05.45 | 65.4 | 45.7 | 68.4 | 38.5 | 29.9 |
| | 05.45-05.50 | 65.4 | 41.4 | 68.4 | 38.0 | 30.4 |
| | 05.50-05.55 | 65.4 | 41.3 | 68.4 | 38.0 | 30.4 |
| | 05.55-06.00 | 65.5 | 42.8 | 68.5 | 38.4 | 30.1 |
| | 06.00-07.00 | 67.3 | 44.9 | 67.3 | 38.0 | 29.3 |
| | 07.00-08.00 | 65.5 | 55.7 | 65.0 | 38.8 | 26.2 |
| | 08.00-09.00 | 66.7 | 56.8 | 66.2 | 40.2 | 26.0 |
| | 09.00-10.00 | 65.8 | 53.0 | 65.6 | 39.5 | 26.1 |
| | 10.00-11.00 | 65.8 | 48.7 | 65.7 | 41.7 | 24.0 |
| | 11.00-12.00 | 66.9 | 56.3 | 66.5 | 45.5 | 21.0 |
| 22. | 12.00-13.00 | 65.8 | 51.3 | 65.6 | 45.3 | 20.3 |
| 23. | 13.00-14.00 | 64.9 | 52.5 | 64.6 | 45.8 | 18.8 |
| 24. | 14.00-15.00 | 64.3 | 61.0 | 61.6 | 44.6 | 17.0 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/31-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(31/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 64.5 | 53.9 | 64.1 | 45.1 | 19.0 |
| 2. | 16.00-17.00 | 64.8 | 53.3 | 64.5 | 45.3 | 19.2 |
| 3. | 17.00-18.00 | 65.4 | 53.3 | 65.1 | 44.6 | 20.5 |
| 4. | 18.00-19.00 | 64.9 | 53.7 | 64.6 | 45.5 | 19.1 |
| 5. | 19.00-20.00 | 64.5 | 49.3 | 64.4 | 40.6 | 23.8 |
| 6. | 20.00-21.00 | 64.8 | 43.6 | 64.8 | 41.9 | 22.9 |
| 7. | 21.00-22.00 | 64.1 | 42.9 | 64.1 | 42.1 | 22.0 |
| 8. | 22.00-22.05 | 64.2 | 41.8 | 67.2 | 41.4 | 25.8 |
| | 22.05-22.10 | 64.2 | 42.0 | 67.2 | 41.4 | 25.8 |
| | 22.10-22.15 | 64.3 | 42.0 | 67.3 | 41.5 | 25.8 |
| | 22.15-22.20 | 64.4 | 44.5 | 67.4 | 41.7 | 25.7 |
| | 22.20-22.25 | 64.3 | 42.5 | 67.3 | 41.8 | 25.5 |
| | 22.25-22.30 | 64.3 | 44.2 | 67.3 | 41.8 | 25.5 |
| | 22.30-22.35 | 64.2 | 42.0 | 67.2 | 41.7 | 25.5 |
| | 22.35-22.40 | 64.3 | 42.5 | 67.3 | 41.8 | 25.5 |
| | 22.40-22.45 | 64.3 | 42.4 | 67.3 | 41.7 | 25.6 |
| | 22.45-22.50 | 64.4 | 44.5 | 67.4 | 41.8 | 25.6 |
| | 22.50-22.55 | 64.4 | 42.5 | 67.4 | 41.5 | 25.9 |
| | 22.55-23.00 | 64.6 | 41.9 | 67.6 | 41.6 | 26.0 |
| 9. | 23.00-23.05 | 64.5 | 41.8 | 67.5 | 41.5 | 26.0 |
| | 23.05-23.10 | 64.5 | 41.8 | 67.5 | 41.5 | 26.0 |
| | 23.10-23.15 | 64.6 | 41.9 | 67.6 | 41.7 | 25.9 |
| | 23.15-23.20 | 64.3 | 42.1 | 67.3 | 41.6 | 25.7 |
| | 23.20-23.25 | 64.2 | 42.0 | 67.2 | 41.8 | 25.4 |
| | 23.25-23.30 | 64.2 | 42.1 | 67.2 | 41.8 | 25.4 |
| | 23.30-23.35 | 64.4 | 43.6 | 67.4 | 41.8 | 25.6 |
| | 23.35-23.40 | 64.4 | 42.4 | 67.4 | 41.6 | 25.8 |
| | 23.40-23.45 | 64.5 | 42.6 | 67.5 | 41.8 | 25.7 |
| | 23.45-23.50 | 64.5 | 42.6 | 67.5 | 41.8 | 25.7 |
| | 23.50-23.55 | 64.6 | 42.2 | 67.6 | 41.7 | 25.9 |
| | 23.55-00.00 | 64.6 | 42.1 | 67.6 | 41.6 | 26.0 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(31/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|---------------------------------|------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีกรรบกวน (Leq) | ระดับเสียงขณะมีกรรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 64.7 | 42.2 | 67.7 | 41.7 | 26.0 |
| | 00.05-00.10 | 64.8 | 42.0 | 67.8 | 41.5 | 26.3 |
| | 00.10-00.15 | 64.7 | 41.9 | 67.7 | 41.5 | 26.2 |
| | 00.15-00.20 | 64.9 | 41.9 | 67.9 | 41.4 | 26.5 |
| | 00.20-00.25 | 64.8 | 41.9 | 67.8 | 41.4 | 26.4 |
| | 00.25-00.30 | 64.9 | 42.1 | 67.9 | 41.6 | 26.3 |
| | 00.30-00.35 | 64.8 | 42.1 | 67.8 | 41.7 | 26.1 |
| | 00.35-00.40 | 64.9 | 41.9 | 67.9 | 41.5 | 26.4 |
| | 00.40-00.45 | 65.0 | 42.2 | 68.0 | 41.7 | 26.3 |
| | 00.45-00.50 | 64.9 | 42.2 | 67.9 | 41.7 | 26.2 |
| 11. | 00.50-00.55 | 64.9 | 42.0 | 67.9 | 41.6 | 26.3 |
| | 00.55-01.00 | 65.1 | 41.9 | 68.1 | 41.5 | 26.6 |
| | 01.00-01.05 | 65.0 | 42.1 | 68.0 | 41.7 | 26.3 |
| | 01.05-01.10 | 65.0 | 42.0 | 68.0 | 41.6 | 26.4 |
| | 01.10-01.15 | 65.0 | 42.1 | 68.0 | 41.8 | 26.2 |
| | 01.15-01.20 | 64.9 | 42.1 | 67.9 | 41.8 | 26.1 |
| | 01.20-01.25 | 64.8 | 42.3 | 67.8 | 41.8 | 26.0 |
| | 01.25-01.30 | 64.8 | 42.0 | 67.8 | 41.6 | 26.2 |
| | 01.30-01.35 | 64.8 | 41.9 | 67.8 | 41.6 | 26.2 |
| | 01.35-01.40 | 64.7 | 42.0 | 67.7 | 41.5 | 26.2 |
| 12. | 01.40-01.45 | 64.7 | 42.0 | 67.7 | 41.7 | 26.0 |
| | 01.45-01.50 | 64.7 | 42.1 | 67.7 | 41.8 | 25.9 |
| | 01.50-01.55 | 64.7 | 42.2 | 67.7 | 41.7 | 26.0 |
| | 01.55-02.00 | 64.7 | 42.2 | 67.7 | 41.8 | 25.9 |
| | 02.00-02.05 | 64.8 | 42.0 | 67.8 | 41.6 | 26.2 |
| | 02.05-02.10 | 64.7 | 42.0 | 67.7 | 41.7 | 26.0 |
| | 02.10-02.15 | 64.8 | 41.9 | 67.8 | 41.6 | 26.2 |
| | 02.15-02.20 | 64.7 | 41.9 | 67.7 | 41.6 | 26.1 |
| | 02.20-02.25 | 64.6 | 42.0 | 67.6 | 41.7 | 25.9 |
| | 02.25-02.30 | 64.7 | 42.0 | 67.7 | 41.7 | 26.0 |
| 13. | 02.30-02.35 | 64.5 | 41.9 | 67.5 | 41.7 | 25.8 |
| | 02.35-02.40 | 64.7 | 41.8 | 67.7 | 41.4 | 26.3 |
| | 02.40-02.45 | 64.7 | 41.7 | 67.7 | 41.4 | 26.3 |
| | 02.45-02.50 | 64.7 | 41.8 | 67.7 | 41.5 | 26.2 |
| | 02.50-02.55 | 64.6 | 41.6 | 67.6 | 41.3 | 26.3 |
| | 02.55-03.00 | 64.6 | 41.8 | 67.6 | 41.5 | 26.1 |
| | 03.00-03.05 | 64.8 | 41.8 | 67.8 | 41.5 | 26.3 |
| | 03.05-03.10 | 65.7 | 41.7 | 68.7 | 41.5 | 27.2 |
| | 03.10-03.15 | 67.4 | 41.8 | 70.4 | 41.5 | 28.9 |
| | 03.15-03.20 | 67.4 | 41.8 | 70.4 | 41.4 | 29.0 |
| | 03.20-03.25 | 67.3 | 41.8 | 70.3 | 41.3 | 29.0 |
| | 03.25-03.30 | 67.5 | 42.0 | 70.5 | 41.6 | 28.9 |
| | 03.30-03.35 | 67.8 | 42.2 | 70.8 | 41.9 | 28.9 |
| | 03.35-03.40 | 66.4 | 42.3 | 69.4 | 41.9 | 27.5 |
| | 03.40-03.45 | 64.9 | 42.4 | 67.9 | 41.8 | 26.1 |
| | 03.45-03.50 | 65.0 | 42.2 | 68.0 | 41.9 | 26.1 |
| | 03.50-03.55 | 64.9 | 43.7 | 67.9 | 36.8 | 31.1 |
| | 03.55-04.00 | 65.0 | 48.4 | 67.9 | 36.7 | 31.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(31/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 65.1 | 37.7 | 68.1 | 37.1 | 31.0 |
| | 04.05-04.10 | 69.0 | 38.5 | 72.0 | 37.1 | 34.9 |
| | 04.10-04.15 | 67.7 | 38.1 | 70.7 | 37.1 | 33.6 |
| | 04.15-04.20 | 66.6 | 39.2 | 69.6 | 37.2 | 32.4 |
| | 04.20-04.25 | 65.1 | 38.3 | 68.1 | 37.1 | 31.0 |
| | 04.25-04.30 | 64.9 | 38.6 | 67.9 | 37.2 | 30.7 |
| | 04.30-04.35 | 64.9 | 37.9 | 67.9 | 37.2 | 30.7 |
| | 04.35-04.40 | 64.8 | 38.1 | 67.8 | 37.1 | 30.7 |
| | 04.40-04.45 | 64.9 | 38.1 | 67.9 | 37.3 | 30.6 |
| | 04.45-04.50 | 65.7 | 38.6 | 68.7 | 37.3 | 31.4 |
| | 04.50-04.55 | 66.8 | 38.5 | 69.8 | 37.0 | 32.8 |
| 15. | 04.55-05.00 | 64.6 | 39.7 | 67.6 | 37.4 | 30.2 |
| | 05.00-05.05 | 64.6 | 39.4 | 67.6 | 37.6 | 30.0 |
| | 05.05-05.10 | 64.4 | 39.6 | 67.4 | 37.9 | 29.5 |
| | 05.10-05.15 | 64.5 | 39.8 | 67.5 | 38.1 | 29.4 |
| | 05.15-05.20 | 64.4 | 47.0 | 67.3 | 38.4 | 28.9 |
| | 05.20-05.25 | 64.7 | 49.3 | 67.6 | 38.5 | 29.1 |
| | 05.25-05.30 | 64.6 | 42.2 | 67.6 | 38.8 | 28.8 |
| | 05.30-05.35 | 64.4 | 40.6 | 67.4 | 38.6 | 28.8 |
| | 05.35-05.40 | 64.5 | 41.3 | 67.5 | 38.2 | 29.3 |
| | 05.40-05.45 | 64.4 | 45.7 | 67.3 | 38.5 | 28.8 |
| | 05.45-05.50 | 64.3 | 41.4 | 67.3 | 38.0 | 29.3 |
| 16. | 05.50-05.55 | 64.4 | 41.3 | 67.4 | 38.0 | 29.4 |
| | 05.55-06.00 | 64.6 | 42.8 | 67.6 | 38.4 | 29.2 |
| | 06.00-07.00 | 65.3 | 44.9 | 65.3 | 38.0 | 27.3 |
| | 07.00-08.00 | 66.7 | 55.7 | 66.3 | 38.8 | 27.5 |
| | 08.00-09.00 | 65.2 | 56.8 | 64.5 | 40.2 | 24.3 |
| | 09.00-10.00 | 64.7 | 53.0 | 64.4 | 39.5 | 24.9 |
| | 10.00-11.00 | 65.1 | 48.7 | 65.0 | 41.7 | 23.3 |
| | 11.00-12.00 | 65.6 | 56.3 | 65.1 | 45.5 | 19.6 |
| | 12.00-13.00 | 64.8 | 51.3 | 64.6 | 45.3 | 19.3 |
| | 13.00-14.00 | 66.5 | 52.5 | 66.3 | 45.8 | 20.5 |
| | 14.00-15.00 | 64.4 | 61.0 | 61.7 | 44.6 | 17.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/32-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(32/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 64.7 | 53.9 | 64.3 | 45.1 | 19.2 |
| 2. | 16.00-17.00 | 64.9 | 53.3 | 64.6 | 45.3 | 19.3 |
| 3. | 17.00-18.00 | 65.7 | 53.3 | 65.4 | 44.6 | 20.8 |
| 4. | 18.00-19.00 | 64.5 | 53.7 | 64.1 | 45.5 | 18.6 |
| 5. | 19.00-20.00 | 64.6 | 49.3 | 64.5 | 40.6 | 23.9 |
| 6. | 20.00-21.00 | 64.6 | 43.6 | 64.6 | 41.9 | 22.7 |
| 7. | 21.00-22.00 | 64.2 | 42.9 | 64.2 | 42.1 | 22.1 |
| 8. | 22.00-22.05 | 64.1 | 41.8 | 67.1 | 41.4 | 25.7 |
| | 22.05-22.10 | 64.3 | 42.0 | 67.3 | 41.4 | 25.9 |
| | 22.10-22.15 | 64.2 | 42.0 | 67.2 | 41.5 | 25.7 |
| | 22.15-22.20 | 64.2 | 44.5 | 67.2 | 41.7 | 25.5 |
| | 22.20-22.25 | 64.3 | 42.5 | 67.3 | 41.8 | 25.5 |
| | 22.25-22.30 | 64.3 | 44.2 | 67.3 | 41.8 | 25.5 |
| | 22.30-22.35 | 64.4 | 42.0 | 67.4 | 41.7 | 25.7 |
| | 22.35-22.40 | 64.3 | 42.5 | 67.3 | 41.8 | 25.5 |
| | 22.40-22.45 | 64.8 | 42.4 | 67.8 | 41.7 | 26.1 |
| | 22.45-22.50 | 64.5 | 44.5 | 67.5 | 41.8 | 25.7 |
| | 22.50-22.55 | 64.3 | 42.5 | 67.3 | 41.5 | 25.8 |
| | 22.55-23.00 | 64.4 | 41.9 | 67.4 | 41.6 | 25.8 |
| 9. | 23.00-23.05 | 64.6 | 41.8 | 67.6 | 41.5 | 26.1 |
| | 23.05-23.10 | 64.4 | 41.8 | 67.4 | 41.5 | 25.9 |
| | 23.10-23.15 | 64.5 | 41.9 | 67.5 | 41.7 | 25.8 |
| | 23.15-23.20 | 64.5 | 42.1 | 67.5 | 41.6 | 25.9 |
| | 23.20-23.25 | 64.4 | 42.0 | 67.4 | 41.8 | 25.6 |
| | 23.25-23.30 | 64.4 | 42.1 | 67.4 | 41.8 | 25.6 |
| | 23.30-23.35 | 64.3 | 43.6 | 67.3 | 41.8 | 25.5 |
| | 23.35-23.40 | 64.3 | 42.4 | 67.3 | 41.6 | 25.7 |
| | 23.40-23.45 | 64.3 | 42.6 | 67.3 | 41.8 | 25.5 |
| | 23.45-23.50 | 64.7 | 42.6 | 67.7 | 41.8 | 25.9 |
| | 23.50-23.55 | 64.6 | 42.2 | 67.6 | 41.7 | 25.9 |
| | 23.55-00.00 | 64.5 | 42.1 | 67.5 | 41.6 | 25.9 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



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

TEST REPORT

(32/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 64.5 | 42.2 | 67.5 | 41.7 | 25.8 |
| | 00.05-00.10 | 64.6 | 42.0 | 67.6 | 41.5 | 26.1 |
| | 00.10-00.15 | 64.4 | 41.9 | 67.4 | 41.5 | 25.9 |
| | 00.15-00.20 | 64.6 | 41.9 | 67.6 | 41.4 | 26.2 |
| | 00.20-00.25 | 64.6 | 41.9 | 67.6 | 41.4 | 26.2 |
| | 00.25-00.30 | 64.5 | 42.1 | 67.5 | 41.6 | 25.9 |
| | 00.30-00.35 | 64.6 | 42.1 | 67.6 | 41.7 | 25.9 |
| | 00.35-00.40 | 64.6 | 41.9 | 67.6 | 41.5 | 26.1 |
| | 00.40-00.45 | 64.5 | 42.2 | 67.5 | 41.7 | 25.8 |
| | 00.45-00.50 | 64.6 | 42.2 | 67.6 | 41.7 | 25.9 |
| | 00.50-00.55 | 64.6 | 42.0 | 67.6 | 41.6 | 26.0 |
| 11. | 00.55-01.00 | 64.5 | 41.9 | 67.5 | 41.5 | 26.0 |
| | 01.00-01.05 | 64.6 | 42.1 | 67.6 | 41.7 | 25.9 |
| | 01.05-01.10 | 64.6 | 42.0 | 67.6 | 41.6 | 26.0 |
| | 01.10-01.15 | 64.6 | 42.1 | 67.6 | 41.8 | 25.8 |
| | 01.15-01.20 | 64.7 | 42.1 | 67.7 | 41.8 | 25.9 |
| | 01.20-01.25 | 64.5 | 42.3 | 67.5 | 41.8 | 25.7 |
| | 01.25-01.30 | 64.5 | 42.0 | 67.5 | 41.6 | 25.9 |
| | 01.30-01.35 | 64.5 | 41.9 | 67.5 | 41.6 | 25.9 |
| | 01.35-01.40 | 64.6 | 42.0 | 67.6 | 41.5 | 26.1 |
| | 01.40-01.45 | 64.6 | 42.0 | 67.6 | 41.7 | 25.9 |
| | 01.45-01.50 | 64.6 | 42.1 | 67.6 | 41.8 | 25.8 |
| 12. | 01.50-01.55 | 64.6 | 42.2 | 67.6 | 41.7 | 25.9 |
| | 01.55-02.00 | 64.6 | 42.2 | 67.6 | 41.8 | 25.8 |
| | 02.00-02.05 | 64.7 | 42.0 | 67.7 | 41.6 | 26.1 |
| | 02.05-02.10 | 64.7 | 42.0 | 67.7 | 41.7 | 26.0 |
| | 02.10-02.15 | 64.7 | 41.9 | 67.7 | 41.6 | 26.1 |
| | 02.15-02.20 | 64.7 | 41.9 | 67.7 | 41.6 | 26.1 |
| | 02.20-02.25 | 65.6 | 42.0 | 68.6 | 41.7 | 26.9 |
| | 02.25-02.30 | 65.7 | 42.0 | 68.7 | 41.7 | 27.0 |
| | 02.30-02.35 | 67.8 | 41.9 | 70.8 | 41.7 | 29.1 |
| | 02.35-02.40 | 67.6 | 41.8 | 70.6 | 41.4 | 29.2 |
| | 02.40-02.45 | 67.6 | 41.7 | 70.6 | 41.4 | 29.2 |
| 13. | 02.45-02.50 | 67.7 | 41.8 | 70.7 | 41.5 | 29.2 |
| | 02.50-02.55 | 67.8 | 41.6 | 70.8 | 41.3 | 29.5 |
| | 02.55-03.00 | 67.8 | 41.8 | 70.8 | 41.5 | 29.3 |
| | 03.00-03.05 | 64.4 | 41.8 | 67.4 | 41.5 | 25.9 |
| | 03.05-03.10 | 64.6 | 41.7 | 67.6 | 41.5 | 26.1 |
| | 03.10-03.15 | 64.6 | 41.8 | 67.6 | 41.5 | 26.1 |
| | 03.15-03.20 | 64.6 | 41.8 | 67.6 | 41.4 | 26.2 |
| | 03.20-03.25 | 64.7 | 41.8 | 67.7 | 41.3 | 26.4 |
| | 03.25-03.30 | 65.3 | 42.0 | 68.3 | 41.6 | 26.7 |
| | 03.30-03.35 | 64.6 | 42.2 | 67.6 | 41.9 | 25.7 |
| | 03.35-03.40 | 64.6 | 42.3 | 67.6 | 41.9 | 25.7 |
| | 03.40-03.45 | 64.6 | 42.4 | 67.6 | 41.8 | 25.8 |
| | 03.45-03.50 | 64.7 | 42.2 | 67.7 | 41.9 | 25.8 |
| | 03.50-03.55 | 64.7 | 43.7 | 67.7 | 36.8 | 30.9 |
| | 03.55-04.00 | 64.6 | 48.4 | 67.5 | 36.7 | 30.8 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(32/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 64.7 | 37.7 | 67.7 | 37.1 | 30.6 |
| | 04.05-04.10 | 64.8 | 38.5 | 67.8 | 37.1 | 30.7 |
| | 04.10-04.15 | 64.7 | 38.1 | 67.7 | 37.1 | 30.6 |
| | 04.15-04.20 | 64.7 | 39.2 | 67.7 | 37.2 | 30.5 |
| | 04.20-04.25 | 64.8 | 38.3 | 67.8 | 37.1 | 30.7 |
| | 04.25-04.30 | 64.8 | 38.6 | 67.8 | 37.2 | 30.6 |
| | 04.30-04.35 | 64.7 | 37.9 | 67.7 | 37.2 | 30.5 |
| | 04.35-04.40 | 66.4 | 38.1 | 69.4 | 37.1 | 32.3 |
| | 04.40-04.45 | 68.8 | 38.1 | 71.8 | 37.3 | 34.5 |
| | 04.45-04.50 | 66.8 | 38.6 | 69.8 | 37.3 | 32.5 |
| | 04.50-04.55 | 67.5 | 38.5 | 70.5 | 37.0 | 33.5 |
| 15. | 04.55-05.00 | 65.1 | 39.7 | 68.1 | 37.4 | 30.7 |
| | 05.00-05.05 | 65.0 | 39.4 | 68.0 | 37.6 | 30.4 |
| | 05.05-05.10 | 65.2 | 39.6 | 68.2 | 37.9 | 30.3 |
| | 05.10-05.15 | 65.2 | 39.8 | 68.2 | 38.1 | 30.1 |
| | 05.15-05.20 | 66.2 | 47.0 | 69.1 | 38.4 | 30.7 |
| | 05.20-05.25 | 64.7 | 49.3 | 67.6 | 38.5 | 29.1 |
| | 05.25-05.30 | 65.1 | 42.2 | 68.1 | 38.8 | 29.3 |
| | 05.30-05.35 | 65.1 | 40.6 | 68.1 | 38.6 | 29.5 |
| | 05.35-05.40 | 64.7 | 41.3 | 67.7 | 38.2 | 29.5 |
| | 05.40-05.45 | 64.7 | 45.7 | 67.6 | 38.5 | 29.1 |
| | 05.45-05.50 | 64.9 | 41.4 | 67.9 | 38.0 | 29.9 |
| 16. | 05.50-05.55 | 64.8 | 41.3 | 67.8 | 38.0 | 29.8 |
| | 05.55-06.00 | 64.9 | 42.8 | 67.9 | 38.4 | 29.5 |
| | 06.00-07.00 | 65.0 | 44.9 | 65.0 | 38.0 | 27.0 |
| | 07.00-08.00 | 67.0 | 55.7 | 66.7 | 38.8 | 27.9 |
| | 08.00-09.00 | 66.5 | 56.8 | 66.0 | 40.2 | 25.8 |
| | 09.00-10.00 | 65.3 | 53.0 | 65.0 | 39.5 | 25.5 |
| | 10.00-11.00 | 64.7 | 48.7 | 64.6 | 41.7 | 22.9 |
| | 11.00-12.00 | 64.9 | 56.3 | 64.3 | 45.5 | 18.8 |
| | 12.00-13.00 | 65.2 | 51.3 | 65.0 | 45.3 | 19.7 |
| | 13.00-14.00 | 65.6 | 52.5 | 65.4 | 45.8 | 19.6 |
| | 14.00-15.00 | 65.5 | 61.0 | 63.6 | 44.6 | 19.0 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/33-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(33/1-3)

| Item | Time | Result (dB(A)) | | | | |
|-----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 64.9 | 53.9 | 64.5 | 45.1 | 19.4 |
| 2. | 16.00-17.00 | 65.3 | 53.3 | 65.0 | 45.3 | 19.7 |
| 3. | 17.00-18.00 | 64.5 | 53.3 | 64.2 | 44.6 | 19.6 |
| 4. | 18.00-19.00 | 64.7 | 53.7 | 64.3 | 45.5 | 18.8 |
| 5. | 19.00-20.00 | 64.8 | 49.3 | 64.7 | 40.6 | 24.1 |
| 6. | 20.00-21.00 | 65.2 | 43.6 | 65.2 | 41.9 | 23.3 |
| 7. | 21.00-22.00 | 65.2 | 42.9 | 65.2 | 42.1 | 23.1 |
| 8. | 22.00-22.05 | 65.1 | 41.8 | 68.1 | 41.4 | 26.7 |
| | 22.05-22.10 | 65.2 | 42.0 | 68.2 | 41.4 | 26.8 |
| | 22.10-22.15 | 65.1 | 42.0 | 68.1 | 41.5 | 26.6 |
| | 22.15-22.20 | 65.2 | 44.5 | 68.2 | 41.7 | 26.5 |
| | 22.20-22.25 | 65.1 | 42.5 | 68.1 | 41.8 | 26.3 |
| | 22.25-22.30 | 65.0 | 44.2 | 68.0 | 41.8 | 26.2 |
| | 22.30-22.35 | 65.1 | 42.0 | 68.1 | 41.7 | 26.4 |
| | 22.35-22.40 | 64.9 | 42.5 | 67.9 | 41.8 | 26.1 |
| | 22.40-22.45 | 65.1 | 42.4 | 68.1 | 41.7 | 26.4 |
| | 22.45-22.50 | 65.1 | 44.5 | 68.1 | 41.8 | 26.3 |
| | 22.50-22.55 | 65.1 | 42.5 | 68.1 | 41.5 | 26.6 |
| | 22.55-23.00 | 65.0 | 41.9 | 68.0 | 41.6 | 26.4 |
| 9. | 23.00-23.05 | 65.0 | 41.8 | 68.0 | 41.5 | 26.5 |
| | 23.05-23.10 | 65.2 | 41.8 | 68.2 | 41.5 | 26.7 |
| | 23.10-23.15 | 66.1 | 41.9 | 69.1 | 41.7 | 27.4 |
| | 23.15-23.20 | 67.8 | 42.1 | 70.8 | 41.6 | 29.2 |
| | 23.20-23.25 | 67.8 | 42.0 | 70.8 | 41.8 | 29.0 |
| | 23.25-23.30 | 67.7 | 42.1 | 70.7 | 41.8 | 28.9 |
| | 23.30-23.35 | 67.9 | 43.6 | 70.9 | 41.8 | 29.1 |
| | 23.35-23.40 | 68.2 | 42.4 | 71.2 | 41.6 | 29.6 |
| | 23.40-23.45 | 66.8 | 42.6 | 69.8 | 41.8 | 28.0 |
| | 23.45-23.50 | 65.3 | 42.6 | 68.3 | 41.8 | 26.5 |
| | 23.50-23.55 | 65.4 | 42.2 | 68.4 | 41.7 | 26.7 |
| | 23.55-00.00 | 65.3 | 42.1 | 68.3 | 41.6 | 26.7 |
| Standard ^{(1)/(2)} | | | | | | 10 |



TEST REPORT

(33/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 65.4 | 42.2 | 68.4 | 41.7 | 26.7 |
| | 00.05-00.10 | 65.5 | 42.0 | 68.5 | 41.5 | 27.0 |
| | 00.10-00.15 | 69.4 | 41.9 | 72.4 | 41.5 | 30.9 |
| | 00.15-00.20 | 68.1 | 41.9 | 71.1 | 41.4 | 29.7 |
| | 00.20-00.25 | 67.0 | 41.9 | 70.0 | 41.4 | 28.6 |
| | 00.25-00.30 | 65.5 | 42.1 | 68.5 | 41.6 | 26.9 |
| | 00.30-00.35 | 65.3 | 42.1 | 68.3 | 41.7 | 26.6 |
| | 00.35-00.40 | 65.3 | 41.9 | 68.3 | 41.5 | 26.8 |
| | 00.40-00.45 | 65.2 | 42.2 | 68.2 | 41.7 | 26.5 |
| | 00.45-00.50 | 65.3 | 42.2 | 68.3 | 41.7 | 26.6 |
| 11. | 00.50-00.55 | 66.1 | 42.0 | 69.1 | 41.6 | 27.5 |
| | 00.55-01.00 | 67.2 | 41.9 | 70.2 | 41.5 | 28.7 |
| | 01.00-01.05 | 65.0 | 42.1 | 68.0 | 41.7 | 26.3 |
| | 01.05-01.10 | 65.0 | 42.0 | 68.0 | 41.6 | 26.4 |
| | 01.10-01.15 | 64.8 | 42.1 | 67.8 | 41.8 | 26.0 |
| | 01.15-01.20 | 64.9 | 42.1 | 67.9 | 41.8 | 26.1 |
| | 01.20-01.25 | 64.8 | 42.3 | 67.8 | 41.8 | 26.0 |
| | 01.25-01.30 | 65.1 | 42.0 | 68.1 | 41.6 | 26.5 |
| | 01.30-01.35 | 65.0 | 41.9 | 68.0 | 41.6 | 26.4 |
| | 01.35-01.40 | 64.8 | 42.0 | 67.8 | 41.5 | 26.3 |
| 12. | 01.40-01.45 | 64.9 | 42.0 | 67.9 | 41.7 | 26.2 |
| | 01.45-01.50 | 64.8 | 42.1 | 67.8 | 41.8 | 26.0 |
| | 01.50-01.55 | 64.7 | 42.2 | 67.7 | 41.7 | 26.0 |
| | 01.55-02.00 | 64.8 | 42.2 | 67.8 | 41.8 | 26.0 |
| | 02.00-02.05 | 65.0 | 42.0 | 68.0 | 41.6 | 26.4 |
| | 02.05-02.10 | 65.0 | 42.0 | 68.0 | 41.7 | 26.3 |
| | 02.10-02.15 | 65.3 | 41.9 | 68.3 | 41.6 | 26.7 |
| | 02.15-02.20 | 67.1 | 41.9 | 70.1 | 41.6 | 28.5 |
| | 02.20-02.25 | 65.7 | 42.0 | 68.7 | 41.7 | 27.0 |
| | 02.25-02.30 | 65.9 | 42.0 | 68.9 | 41.7 | 27.2 |
| 13. | 02.30-02.35 | 65.7 | 41.9 | 68.7 | 41.7 | 27.0 |
| | 02.35-02.40 | 66.4 | 41.8 | 69.4 | 41.4 | 28.0 |
| | 02.40-02.45 | 65.8 | 41.7 | 68.8 | 41.4 | 27.4 |
| | 02.45-02.50 | 65.7 | 41.8 | 68.7 | 41.5 | 27.2 |
| | 02.50-02.55 | 65.5 | 41.6 | 68.5 | 41.3 | 27.2 |
| | 02.55-03.00 | 65.2 | 41.8 | 68.2 | 41.5 | 26.7 |
| | 03.00-03.05 | 65.3 | 41.8 | 68.3 | 41.5 | 26.8 |
| | 03.05-03.10 | 67.1 | 41.7 | 70.1 | 41.5 | 28.6 |
| | 03.10-03.15 | 67.9 | 41.8 | 70.9 | 41.5 | 29.4 |
| | 03.15-03.20 | 68.3 | 41.8 | 71.3 | 41.4 | 29.9 |
| | 03.20-03.25 | 68.2 | 41.8 | 71.2 | 41.3 | 29.9 |
| | 03.25-03.30 | 67.7 | 42.0 | 70.7 | 41.6 | 29.1 |
| | 03.30-03.35 | 68.1 | 42.2 | 71.1 | 41.9 | 29.2 |
| | 03.35-03.40 | 68.1 | 42.3 | 71.1 | 41.9 | 29.2 |
| | 03.40-03.45 | 64.6 | 42.4 | 67.6 | 41.8 | 25.8 |
| | 03.45-03.50 | 66.7 | 42.2 | 69.7 | 41.9 | 27.8 |
| | 03.50-03.55 | 66.1 | 43.7 | 69.1 | 36.8 | 32.3 |
| | 03.55-04.00 | 65.3 | 48.4 | 68.2 | 36.7 | 31.5 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(33/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 65.2 | 37.7 | 68.2 | 37.1 | 31.1 |
| | 04.05-04.10 | 65.2 | 38.5 | 68.2 | 37.1 | 31.1 |
| | 04.10-04.15 | 65.3 | 38.1 | 68.3 | 37.1 | 31.2 |
| | 04.15-04.20 | 65.1 | 39.2 | 68.1 | 37.2 | 30.9 |
| | 04.20-04.25 | 65.1 | 38.3 | 68.1 | 37.1 | 31.0 |
| | 04.25-04.30 | 65.1 | 38.6 | 68.1 | 37.2 | 30.9 |
| | 04.30-04.35 | 65.4 | 37.9 | 68.4 | 37.2 | 31.2 |
| | 04.35-04.40 | 65.3 | 38.1 | 68.3 | 37.1 | 31.2 |
| | 04.40-04.45 | 65.2 | 38.1 | 68.2 | 37.3 | 30.9 |
| | 04.45-04.50 | 65.3 | 38.6 | 68.3 | 37.3 | 31.0 |
| 15. | 04.50-04.55 | 65.1 | 38.5 | 68.1 | 37.0 | 31.1 |
| | 04.55-05.00 | 67.0 | 39.7 | 70.0 | 37.4 | 32.6 |
| | 05.00-05.05 | 67.6 | 39.4 | 70.6 | 37.6 | 33.0 |
| | 05.05-05.10 | 66.0 | 39.6 | 69.0 | 37.9 | 31.1 |
| | 05.10-05.15 | 65.2 | 39.8 | 68.2 | 38.1 | 30.1 |
| | 05.15-05.20 | 65.2 | 47.0 | 68.1 | 38.4 | 29.7 |
| | 05.20-05.25 | 65.1 | 49.3 | 68.0 | 38.5 | 29.5 |
| | 05.25-05.30 | 65.1 | 42.2 | 68.1 | 38.8 | 29.3 |
| | 05.30-05.35 | 65.0 | 40.6 | 68.0 | 38.6 | 29.4 |
| | 05.35-05.40 | 64.8 | 41.3 | 67.8 | 38.2 | 29.6 |
| 16. | 05.40-05.45 | 65.0 | 45.7 | 67.9 | 38.5 | 29.4 |
| | 05.45-05.50 | 65.1 | 41.4 | 68.1 | 38.0 | 30.1 |
| | 05.50-05.55 | 64.9 | 41.3 | 67.9 | 38.0 | 29.9 |
| | 05.55-06.00 | 64.9 | 42.8 | 67.9 | 38.4 | 29.5 |
| | 06.00-07.00 | 65.5 | 44.9 | 65.5 | 38.0 | 27.5 |
| | 07.00-08.00 | 65.9 | 55.7 | 65.5 | 38.8 | 26.7 |
| | 08.00-09.00 | 65.3 | 56.8 | 64.6 | 40.2 | 24.4 |
| | 09.00-10.00 | 66.9 | 53.0 | 66.7 | 39.5 | 27.2 |
| | 10.00-11.00 | 64.9 | 48.7 | 64.8 | 41.7 | 23.1 |
| | 11.00-12.00 | 65.0 | 56.3 | 64.4 | 45.5 | 18.9 |
| 22. | 12.00-13.00 | 65.3 | 51.3 | 65.1 | 45.3 | 19.8 |
| | 13.00-14.00 | 66.2 | 52.5 | 66.0 | 45.8 | 20.2 |
| 24. | 14.00-15.00 | 64.9 | 61.0 | 62.6 | 44.6 | 18.0 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/34-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(34/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 65.0 | 53.9 | 64.6 | 45.1 | 19.5 |
| 2. | 16.00-17.00 | 65.0 | 53.3 | 64.7 | 45.3 | 19.4 |
| 3. | 17.00-18.00 | 64.6 | 53.3 | 64.3 | 44.6 | 19.7 |
| 4. | 18.00-19.00 | 64.7 | 53.7 | 64.3 | 45.5 | 18.8 |
| 5. | 19.00-20.00 | 64.8 | 49.3 | 64.7 | 40.6 | 24.1 |
| 6. | 20.00-21.00 | 64.9 | 43.6 | 64.9 | 41.9 | 23.0 |
| 7. | 21.00-22.00 | 65.0 | 42.9 | 65.0 | 42.1 | 22.9 |
| 8. | 22.00-22.05 | 65.0 | 41.8 | 68.0 | 41.4 | 26.6 |
| | 22.05-22.10 | 65.1 | 42.0 | 68.1 | 41.4 | 26.7 |
| | 22.10-22.15 | 65.1 | 42.0 | 68.1 | 41.5 | 26.6 |
| | 22.15-22.20 | 65.1 | 44.5 | 68.1 | 41.7 | 26.4 |
| | 22.20-22.25 | 65.1 | 42.5 | 68.1 | 41.8 | 26.3 |
| | 22.25-22.30 | 66.0 | 44.2 | 69.0 | 41.8 | 27.2 |
| | 22.30-22.35 | 66.1 | 42.0 | 69.1 | 41.7 | 27.4 |
| | 22.35-22.40 | 68.2 | 42.5 | 71.2 | 41.8 | 29.4 |
| | 22.40-22.45 | 68.0 | 42.4 | 71.0 | 41.7 | 29.3 |
| | 22.45-22.50 | 68.0 | 44.5 | 71.0 | 41.8 | 29.2 |
| | 22.50-22.55 | 68.1 | 42.5 | 71.1 | 41.5 | 29.6 |
| | 22.55-23.00 | 68.2 | 41.9 | 71.2 | 41.6 | 29.6 |
| 9. | 23.00-23.05 | 68.2 | 41.8 | 71.2 | 41.5 | 29.7 |
| | 23.05-23.10 | 64.8 | 41.8 | 67.8 | 41.5 | 26.3 |
| | 23.10-23.15 | 65.0 | 41.9 | 68.0 | 41.7 | 26.3 |
| | 23.15-23.20 | 65.0 | 42.1 | 68.0 | 41.6 | 26.4 |
| | 23.20-23.25 | 65.0 | 42.0 | 68.0 | 41.8 | 26.2 |
| | 23.25-23.30 | 65.1 | 42.1 | 68.1 | 41.8 | 26.3 |
| | 23.30-23.35 | 65.7 | 43.6 | 68.7 | 41.8 | 26.9 |
| | 23.35-23.40 | 65.0 | 42.4 | 68.0 | 41.6 | 26.4 |
| | 23.40-23.45 | 65.0 | 42.6 | 68.0 | 41.8 | 26.2 |
| | 23.45-23.50 | 65.0 | 42.6 | 68.0 | 41.8 | 26.2 |
| | 23.50-23.55 | 65.1 | 42.2 | 68.1 | 41.7 | 26.4 |
| | 23.55-00.00 | 65.1 | 42.1 | 68.1 | 41.6 | 26.5 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(34/2-3)

| Item | Time | Result (dB(A)) | | | | |
|------|----------------------------|--|---------------------------------|------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีกรรบกวน (Leq) | ระดับเสียงขณะมีกรรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 65.0 | 42.2 | 68.0 | 41.7 | 26.3 |
| | 00.05-00.10 | 65.1 | 42.0 | 68.1 | 41.5 | 26.6 |
| | 00.10-00.15 | 65.2 | 41.9 | 68.2 | 41.5 | 26.7 |
| | 00.15-00.20 | 65.1 | 41.9 | 68.1 | 41.4 | 26.7 |
| | 00.20-00.25 | 65.1 | 41.9 | 68.1 | 41.4 | 26.7 |
| | 00.25-00.30 | 65.2 | 42.1 | 68.2 | 41.6 | 26.6 |
| | 00.30-00.35 | 65.2 | 42.1 | 68.2 | 41.7 | 26.5 |
| | 00.35-00.40 | 65.1 | 41.9 | 68.1 | 41.5 | 26.6 |
| | 00.40-00.45 | 66.8 | 42.2 | 69.8 | 41.7 | 28.1 |
| | 00.45-00.50 | 69.2 | 42.2 | 72.2 | 41.7 | 30.5 |
| | 00.50-00.55 | 67.2 | 42.0 | 70.2 | 41.6 | 28.6 |
| 11. | 00.55-01.00 | 67.9 | 41.9 | 70.9 | 41.5 | 29.4 |
| | 01.00-01.05 | 65.5 | 42.1 | 68.5 | 41.7 | 26.8 |
| | 01.05-01.10 | 65.4 | 42.0 | 68.4 | 41.6 | 26.8 |
| | 01.10-01.15 | 65.6 | 42.1 | 68.6 | 41.8 | 26.8 |
| | 01.15-01.20 | 65.6 | 42.1 | 68.6 | 41.8 | 26.8 |
| | 01.20-01.25 | 66.6 | 42.3 | 69.6 | 41.8 | 27.8 |
| | 01.25-01.30 | 65.1 | 42.0 | 68.1 | 41.6 | 26.5 |
| | 01.30-01.35 | 65.5 | 41.9 | 68.5 | 41.6 | 26.9 |
| | 01.35-01.40 | 65.5 | 42.0 | 68.5 | 41.5 | 27.0 |
| | 01.40-01.45 | 65.1 | 42.0 | 68.1 | 41.7 | 26.4 |
| | 01.45-01.50 | 65.1 | 42.1 | 68.1 | 41.8 | 26.3 |
| 12. | 01.50-01.55 | 65.3 | 42.2 | 68.3 | 41.7 | 26.6 |
| | 01.55-02.00 | 65.2 | 42.2 | 68.2 | 41.8 | 26.4 |
| | 02.00-02.05 | 65.3 | 42.0 | 68.3 | 41.6 | 26.7 |
| | 02.05-02.10 | 65.3 | 42.0 | 68.3 | 41.7 | 26.6 |
| | 02.10-02.15 | 65.3 | 41.9 | 68.3 | 41.6 | 26.7 |
| | 02.15-02.20 | 65.5 | 41.9 | 68.5 | 41.6 | 26.9 |
| | 02.20-02.25 | 65.3 | 42.0 | 68.3 | 41.7 | 26.6 |
| | 02.25-02.30 | 65.3 | 42.0 | 68.3 | 41.7 | 26.6 |
| | 02.30-02.35 | 65.3 | 41.9 | 68.3 | 41.7 | 26.6 |
| | 02.35-02.40 | 65.3 | 41.8 | 68.3 | 41.4 | 26.9 |
| | 02.40-02.45 | 65.5 | 41.7 | 68.5 | 41.4 | 27.1 |
| 13. | 02.45-02.50 | 65.5 | 41.8 | 68.5 | 41.5 | 27.0 |
| | 02.50-02.55 | 65.4 | 41.6 | 68.4 | 41.3 | 27.1 |
| | 02.55-03.00 | 65.5 | 41.8 | 68.5 | 41.5 | 27.0 |
| | 03.00-03.05 | 65.4 | 41.8 | 68.4 | 41.5 | 26.9 |
| | 03.05-03.10 | 65.2 | 41.7 | 68.2 | 41.5 | 26.7 |
| | 03.10-03.15 | 65.4 | 41.8 | 68.4 | 41.5 | 26.9 |
| | 03.15-03.20 | 67.0 | 41.8 | 70.0 | 41.4 | 28.6 |
| | 03.20-03.25 | 66.6 | 41.8 | 69.6 | 41.3 | 28.3 |
| | 03.25-03.30 | 68.7 | 42.0 | 71.7 | 41.6 | 30.1 |
| | 03.30-03.35 | 66.7 | 42.2 | 69.7 | 41.9 | 27.8 |
| | 03.35-03.40 | 64.0 | 42.3 | 67.0 | 41.9 | 25.1 |
| | 03.40-03.45 | 64.7 | 42.4 | 67.7 | 41.8 | 25.9 |
| | 03.45-03.50 | 64.9 | 42.2 | 67.9 | 41.9 | 26.0 |
| | 03.50-03.55 | 66.8 | 43.7 | 69.8 | 36.8 | 33.0 |
| | 03.55-04.00 | 66.9 | 48.4 | 69.8 | 36.7 | 33.1 |
| | Standard ⁽¹⁾⁽²⁾ | | | | | 10 |



TEST REPORT

(34/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 67.1 | 37.7 | 70.1 | 37.1 | 33.0 |
| | 04.05-04.10 | 67.1 | 38.5 | 70.1 | 37.1 | 33.0 |
| | 04.10-04.15 | 66.4 | 38.1 | 69.4 | 37.1 | 32.3 |
| | 04.15-04.20 | 67.1 | 39.2 | 70.1 | 37.2 | 32.9 |
| | 04.20-04.25 | 66.5 | 38.3 | 69.5 | 37.1 | 32.4 |
| | 04.25-04.30 | 66.8 | 38.6 | 69.8 | 37.2 | 32.6 |
| | 04.30-04.35 | 61.2 | 37.9 | 64.2 | 37.2 | 27.0 |
| | 04.35-04.40 | 64.3 | 38.1 | 67.3 | 37.1 | 30.2 |
| | 04.40-04.45 | 64.2 | 38.1 | 67.2 | 37.3 | 29.9 |
| | 04.45-04.50 | 65.5 | 38.6 | 68.5 | 37.3 | 31.2 |
| | 04.50-04.55 | 65.5 | 38.5 | 68.5 | 37.0 | 31.5 |
| 15. | 04.55-05.00 | 65.6 | 39.7 | 68.6 | 37.4 | 31.2 |
| | 05.00-05.05 | 64.8 | 39.4 | 67.8 | 37.6 | 30.2 |
| | 05.05-05.10 | 64.0 | 39.6 | 67.0 | 37.9 | 29.1 |
| | 05.10-05.15 | 64.1 | 39.8 | 67.1 | 38.1 | 29.0 |
| | 05.15-05.20 | 64.1 | 47.0 | 67.0 | 38.4 | 28.6 |
| | 05.20-05.25 | 64.1 | 49.3 | 67.0 | 38.5 | 28.5 |
| | 05.25-05.30 | 64.0 | 42.2 | 67.0 | 38.8 | 28.2 |
| | 05.30-05.35 | 64.2 | 40.6 | 67.2 | 38.6 | 28.6 |
| | 05.35-05.40 | 64.2 | 41.3 | 67.2 | 38.2 | 29.0 |
| | 05.40-05.45 | 64.3 | 45.7 | 67.2 | 38.5 | 28.7 |
| | 05.45-05.50 | 66.2 | 41.4 | 69.2 | 38.0 | 31.2 |
| 16. | 05.50-05.55 | 65.8 | 41.3 | 68.8 | 38.0 | 30.8 |
| | 05.55-06.00 | 64.2 | 42.8 | 67.2 | 38.4 | 28.8 |
| | 06.00-07.00 | 63.9 | 44.9 | 63.8 | 38.0 | 25.8 |
| | 07.00-08.00 | 64.1 | 55.7 | 63.4 | 38.8 | 24.6 |
| | 08.00-09.00 | 64.4 | 56.8 | 63.6 | 40.2 | 23.4 |
| | 09.00-10.00 | 64.8 | 53.0 | 64.5 | 39.5 | 25.0 |
| | 10.00-11.00 | 64.7 | 48.7 | 64.6 | 41.7 | 22.9 |
| | 11.00-12.00 | 64.1 | 56.3 | 63.3 | 45.5 | 17.8 |
| | 12.00-13.00 | 64.5 | 51.3 | 64.3 | 45.3 | 19.0 |
| | 13.00-14.00 | 63.7 | 52.5 | 63.4 | 45.8 | 17.6 |
| | 14.00-15.00 | 63.9 | 61.0 | 60.8 | 44.6 | 16.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ
จังหวัดพิจิตร 66150
Job No. : S660183/June

Report No. : 1646/2023/35-42
Report Date : June 13, 2023
Sampling Date : April 19-26 & June 4-5, 2023
Type of Sample : เสียงรบกวน

(35/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|---------------------------------|------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีกรรบกวน (Leq) | ระดับเสียงขณะมีกรรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 64.0 | 53.9 | 63.6 | 45.1 | 18.5 |
| 2. | 16.00-17.00 | 64.4 | 53.3 | 64.0 | 45.3 | 18.7 |
| 3. | 17.00-18.00 | 64.5 | 53.3 | 64.2 | 44.6 | 19.6 |
| 4. | 18.00-19.00 | 64.3 | 53.7 | 63.9 | 45.5 | 18.4 |
| 5. | 19.00-20.00 | 65.9 | 49.3 | 65.8 | 40.6 | 25.2 |
| 6. | 20.00-21.00 | 65.5 | 43.6 | 65.5 | 41.9 | 23.6 |
| 7. | 21.00-22.00 | 64.3 | 42.9 | 64.3 | 42.1 | 22.2 |
| 8. | 22.00-22.05 | 64.0 | 41.8 | 67.0 | 41.4 | 25.6 |
| | 22.05-22.10 | 64.2 | 42.0 | 67.2 | 41.4 | 25.8 |
| | 22.10-22.15 | 64.2 | 42.0 | 67.2 | 41.5 | 25.7 |
| | 22.15-22.20 | 64.5 | 44.5 | 67.5 | 41.7 | 25.8 |
| | 22.20-22.25 | 66.3 | 42.5 | 69.3 | 41.8 | 27.5 |
| | 22.25-22.30 | 64.9 | 44.2 | 67.9 | 41.8 | 26.1 |
| | 22.30-22.35 | 65.1 | 42.0 | 68.1 | 41.7 | 26.4 |
| | 22.35-22.40 | 64.9 | 42.5 | 67.9 | 41.8 | 26.1 |
| | 22.40-22.45 | 65.6 | 42.4 | 68.6 | 41.7 | 26.9 |
| | 22.45-22.50 | 65.0 | 44.5 | 68.0 | 41.8 | 26.2 |
| | 22.50-22.55 | 64.9 | 42.5 | 67.9 | 41.5 | 26.4 |
| | 22.55-23.00 | 64.7 | 41.9 | 67.7 | 41.6 | 26.1 |
| 9. | 23.00-23.05 | 64.4 | 41.8 | 67.4 | 41.5 | 25.9 |
| | 23.05-23.10 | 64.5 | 41.8 | 67.5 | 41.5 | 26.0 |
| | 23.10-23.15 | 66.3 | 41.9 | 69.3 | 41.7 | 27.6 |
| | 23.15-23.20 | 67.1 | 42.1 | 70.1 | 41.6 | 28.5 |
| | 23.20-23.25 | 67.5 | 42.0 | 70.5 | 41.8 | 28.7 |
| | 23.25-23.30 | 67.4 | 42.1 | 70.4 | 41.8 | 28.6 |
| | 23.30-23.35 | 66.9 | 43.6 | 69.9 | 41.8 | 28.1 |
| | 23.35-23.40 | 67.3 | 42.4 | 70.3 | 41.6 | 28.7 |
| | 23.40-23.45 | 67.3 | 42.6 | 70.3 | 41.8 | 28.5 |
| | 23.45-23.50 | 63.8 | 42.6 | 66.8 | 41.8 | 25.0 |
| | 23.50-23.55 | 65.9 | 42.2 | 68.9 | 41.7 | 27.2 |
| | 23.55-00.00 | 65.3 | 42.1 | 68.3 | 41.6 | 26.7 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(35/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 64.5 | 42.2 | 67.5 | 41.7 | 25.8 |
| | 00.05-00.10 | 64.4 | 42.0 | 67.4 | 41.5 | 25.9 |
| | 00.10-00.15 | 64.4 | 41.9 | 67.4 | 41.5 | 25.9 |
| | 00.15-00.20 | 64.5 | 41.9 | 67.5 | 41.4 | 26.1 |
| | 00.20-00.25 | 64.3 | 41.9 | 67.3 | 41.4 | 25.9 |
| | 00.25-00.30 | 64.3 | 42.1 | 67.3 | 41.6 | 25.7 |
| | 00.30-00.35 | 64.3 | 42.1 | 67.3 | 41.7 | 25.6 |
| | 00.35-00.40 | 64.6 | 41.9 | 67.6 | 41.5 | 26.1 |
| | 00.40-00.45 | 64.5 | 42.2 | 67.5 | 41.7 | 25.8 |
| | 00.45-00.50 | 64.4 | 42.2 | 67.4 | 41.7 | 25.7 |
| 11. | 00.50-00.55 | 64.5 | 42.0 | 67.5 | 41.6 | 25.9 |
| | 00.55-01.00 | 64.3 | 41.9 | 67.3 | 41.5 | 25.8 |
| | 01.00-01.05 | 66.2 | 42.1 | 69.2 | 41.7 | 27.5 |
| | 01.05-01.10 | 66.8 | 42.0 | 69.8 | 41.6 | 28.2 |
| | 01.10-01.15 | 65.2 | 42.1 | 68.2 | 41.8 | 26.4 |
| | 01.15-01.20 | 64.4 | 42.1 | 67.4 | 41.8 | 25.6 |
| | 01.20-01.25 | 64.4 | 42.3 | 67.4 | 41.8 | 25.6 |
| | 01.25-01.30 | 64.3 | 42.0 | 67.3 | 41.6 | 25.7 |
| | 01.30-01.35 | 64.3 | 41.9 | 67.3 | 41.6 | 25.7 |
| | 01.35-01.40 | 64.2 | 42.0 | 67.2 | 41.5 | 25.7 |
| 12. | 01.40-01.45 | 64.0 | 42.0 | 67.0 | 41.7 | 25.3 |
| | 01.45-01.50 | 64.2 | 42.1 | 67.2 | 41.8 | 25.4 |
| | 01.50-01.55 | 64.3 | 42.2 | 67.3 | 41.7 | 25.6 |
| | 01.55-02.00 | 64.1 | 42.2 | 67.1 | 41.8 | 25.3 |
| | 02.00-02.05 | 64.1 | 42.0 | 67.1 | 41.6 | 25.5 |
| | 02.05-02.10 | 64.2 | 42.0 | 67.2 | 41.7 | 25.5 |
| | 02.10-02.15 | 64.3 | 41.9 | 67.3 | 41.6 | 25.7 |
| | 02.15-02.20 | 64.4 | 41.9 | 67.4 | 41.6 | 25.8 |
| | 02.20-02.25 | 64.2 | 42.0 | 67.2 | 41.7 | 25.5 |
| | 02.25-02.30 | 64.3 | 42.0 | 67.3 | 41.7 | 25.6 |
| 13. | 02.30-02.35 | 64.2 | 41.9 | 67.2 | 41.7 | 25.5 |
| | 02.35-02.40 | 64.2 | 41.8 | 67.2 | 41.4 | 25.8 |
| | 02.40-02.45 | 64.1 | 41.7 | 67.1 | 41.4 | 25.7 |
| | 02.45-02.50 | 64.6 | 41.8 | 67.6 | 41.5 | 26.1 |
| | 02.50-02.55 | 67.9 | 41.6 | 70.9 | 41.3 | 29.6 |
| | 02.55-03.00 | 64.2 | 41.8 | 67.2 | 41.5 | 25.7 |
| | 03.00-03.05 | 64.2 | 41.8 | 67.2 | 41.5 | 25.7 |
| | 03.05-03.10 | 64.1 | 41.7 | 67.1 | 41.5 | 25.6 |
| | 03.10-03.15 | 64.1 | 41.8 | 67.1 | 41.5 | 25.6 |
| | 03.15-03.20 | 64.1 | 41.8 | 67.1 | 41.4 | 25.7 |
| | 03.20-03.25 | 64.2 | 41.8 | 67.2 | 41.3 | 25.9 |
| | 03.25-03.30 | 64.1 | 42.0 | 67.1 | 41.6 | 25.5 |
| | 03.30-03.35 | 64.2 | 42.2 | 67.2 | 41.9 | 25.3 |
| | 03.35-03.40 | 67.9 | 42.3 | 70.9 | 41.9 | 29.0 |
| | 03.40-03.45 | 65.6 | 42.4 | 68.6 | 41.8 | 26.8 |
| | 03.45-03.50 | 64.8 | 42.2 | 67.8 | 41.9 | 25.9 |
| | 03.50-03.55 | 64.8 | 43.7 | 67.8 | 36.8 | 31.0 |
| | 03.55-04.00 | 64.9 | 48.4 | 67.8 | 36.7 | 31.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(35/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองกะทอ | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 66.8 | 37.7 | 69.8 | 37.1 | 32.7 |
| | 04.05-04.10 | 65.3 | 38.5 | 68.3 | 37.1 | 31.2 |
| | 04.10-04.15 | 64.2 | 38.1 | 67.2 | 37.1 | 30.1 |
| | 04.15-04.20 | 64.2 | 39.2 | 67.2 | 37.2 | 30.0 |
| | 04.20-04.25 | 64.0 | 38.3 | 67.0 | 37.1 | 29.9 |
| | 04.25-04.30 | 64.2 | 38.6 | 67.2 | 37.2 | 30.0 |
| | 04.30-04.35 | 66.2 | 37.9 | 69.2 | 37.2 | 32.0 |
| | 04.35-04.40 | 64.2 | 38.1 | 67.2 | 37.1 | 30.1 |
| | 04.40-04.45 | 64.2 | 38.1 | 67.2 | 37.3 | 29.9 |
| | 04.45-04.50 | 64.4 | 38.6 | 67.4 | 37.3 | 30.1 |
| | 04.50-04.55 | 64.1 | 38.5 | 67.1 | 37.0 | 30.1 |
| 15. | 04.55-05.00 | 64.3 | 39.7 | 67.3 | 37.4 | 29.9 |
| | 05.00-05.05 | 64.3 | 39.4 | 67.3 | 37.6 | 29.7 |
| | 05.05-05.10 | 64.4 | 39.6 | 67.4 | 37.9 | 29.5 |
| | 05.10-05.15 | 64.1 | 39.8 | 67.1 | 38.1 | 29.0 |
| | 05.15-05.20 | 64.0 | 47.0 | 66.9 | 38.4 | 28.5 |
| | 05.20-05.25 | 64.0 | 49.3 | 66.9 | 38.5 | 28.4 |
| | 05.25-05.30 | 64.2 | 42.2 | 67.2 | 38.8 | 28.4 |
| | 05.30-05.35 | 66.0 | 40.6 | 69.0 | 38.6 | 30.4 |
| | 05.35-05.40 | 68.3 | 41.3 | 71.3 | 38.2 | 33.1 |
| | 05.40-05.45 | 67.0 | 45.7 | 70.0 | 38.5 | 31.5 |
| | 05.45-05.50 | 66.8 | 41.4 | 69.8 | 38.0 | 31.8 |
| 16. | 05.50-05.55 | 67.1 | 41.3 | 70.1 | 38.0 | 32.1 |
| | 05.55-06.00 | 67.0 | 42.8 | 70.0 | 38.4 | 31.6 |
| | 06.00-07.00 | 64.4 | 44.9 | 64.4 | 38.0 | 26.4 |
| | 07.00-08.00 | 64.2 | 55.7 | 63.5 | 38.8 | 24.7 |
| | 08.00-09.00 | 64.5 | 56.8 | 63.7 | 40.2 | 23.5 |
| | 09.00-10.00 | 65.4 | 53.0 | 65.1 | 39.5 | 25.6 |
| | 10.00-11.00 | 64.1 | 48.7 | 64.0 | 41.7 | 22.3 |
| | 11.00-12.00 | 64.2 | 56.3 | 63.4 | 45.5 | 17.9 |
| | 12.00-13.00 | 64.3 | 51.3 | 64.1 | 45.3 | 18.8 |
| | 13.00-14.00 | 63.8 | 52.5 | 63.5 | 45.8 | 17.7 |
| | 14.00-15.00 | 63.9 | 61.0 | 60.8 | 44.6 | 16.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/36-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(36/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือขุด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 56.0 | 59.6 | 56.0 | 43.6 | 12.4 |
| 2. | 16.00-17.00 | 52.9 | 59.7 | 52.9 | 43.8 | 9.1 |
| 3. | 17.00-18.00 | 51.4 | 45.7 | 50.0 | 36.8 | 13.2 |
| 4. | 18.00-19.00 | 51.8 | 43.9 | 51.0 | 36.7 | 14.3 |
| 5. | 19.00-20.00 | 50.9 | 53.8 | 50.9 | 42.2 | 8.7 |
| 6. | 20.00-21.00 | 47.9 | 58.1 | 47.9 | 40.7 | 7.2 |
| 7. | 21.00-22.00 | 54.4 | 44.0 | 54.0 | 38.6 | 15.4 |
| 8. | 22.00-22.05 | 56.3 | 39.6 | 59.2 | 38.2 | 21.0 |
| | 22.05-22.10 | 55.6 | 40.5 | 58.5 | 39.0 | 19.5 |
| | 22.10-22.15 | 53.7 | 40.7 | 56.5 | 38.7 | 17.8 |
| | 22.15-22.20 | 55.6 | 39.7 | 58.5 | 38.6 | 19.9 |
| | 22.20-22.25 | 55.0 | 40.6 | 57.8 | 38.7 | 19.1 |
| | 22.25-22.30 | 56.7 | 40.3 | 59.6 | 38.7 | 20.9 |
| | 22.30-22.35 | 57.9 | 40.0 | 60.8 | 38.8 | 22.0 |
| | 22.35-22.40 | 58.0 | 40.8 | 60.9 | 39.1 | 21.8 |
| | 22.40-22.45 | 56.5 | 41.7 | 59.4 | 40.0 | 19.4 |
| | 22.45-22.50 | 57.3 | 41.8 | 60.2 | 40.1 | 20.1 |
| | 22.50-22.55 | 58.7 | 40.1 | 61.6 | 38.7 | 22.9 |
| | 22.55-23.00 | 57.5 | 41.8 | 60.4 | 39.4 | 21.0 |
| 9. | 23.00-23.05 | 57.7 | 40.6 | 60.6 | 38.9 | 21.7 |
| | 23.05-23.10 | 59.1 | 40.6 | 62.0 | 39.0 | 23.0 |
| | 23.10-23.15 | 60.4 | 41.2 | 63.3 | 39.4 | 23.9 |
| | 23.15-23.20 | 59.3 | 42.3 | 62.2 | 38.5 | 23.7 |
| | 23.20-23.25 | 61.1 | 42.3 | 64.0 | 38.1 | 25.9 |
| | 23.25-23.30 | 46.6 | 40.6 | 48.3 | 37.9 | 10.4 |
| | 23.30-23.35 | 46.8 | 43.4 | 47.1 | 37.9 | 9.2 |
| | 23.35-23.40 | 47.1 | 39.8 | 49.2 | 37.7 | 11.5 |
| | 23.40-23.45 | 46.8 | 39.2 | 49.0 | 37.5 | 11.5 |
| | 23.45-23.50 | 46.3 | 40.5 | 48.0 | 37.6 | 10.4 |
| | 23.50-23.55 | 47.1 | 40.1 | 49.1 | 37.9 | 11.2 |
| | 23.55-00.00 | 56.5 | 40.5 | 59.4 | 37.6 | 21.8 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(36/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือชู | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 51.9 | 40.2 | 54.6 | 38.3 | 16.3 |
| | 00.05-00.10 | 45.1 | 39.1 | 46.8 | 37.5 | 9.3 |
| | 00.10-00.15 | 45.2 | 38.3 | 47.2 | 37.4 | 9.8 |
| | 00.15-00.20 | 45.9 | 39.5 | 47.8 | 37.7 | 10.1 |
| | 00.20-00.25 | 47.0 | 38.5 | 49.3 | 37.5 | 11.8 |
| | 00.25-00.30 | 48.3 | 38.9 | 50.8 | 37.4 | 13.4 |
| | 00.30-00.35 | 48.1 | 40.7 | 50.2 | 37.8 | 12.4 |
| | 00.35-00.40 | 53.6 | 40.6 | 56.4 | 38.3 | 18.1 |
| | 00.40-00.45 | 51.0 | 40.4 | 53.6 | 37.7 | 15.9 |
| | 00.45-00.50 | 56.6 | 41.7 | 59.5 | 38.5 | 21.0 |
| 11. | 00.50-00.55 | 56.8 | 46.9 | 59.3 | 37.7 | 21.6 |
| | 00.55-01.00 | 58.3 | 40.1 | 61.2 | 37.9 | 23.3 |
| | 01.00-01.05 | 59.1 | 39.4 | 62.1 | 37.8 | 24.3 |
| | 01.05-01.10 | 58.0 | 40.1 | 60.9 | 38.5 | 22.4 |
| | 01.10-01.15 | 58.7 | 42.8 | 61.6 | 38.8 | 22.8 |
| | 01.15-01.20 | 57.5 | 40.0 | 60.4 | 38.1 | 22.3 |
| | 01.20-01.25 | 58.9 | 39.3 | 61.9 | 37.7 | 24.2 |
| | 01.25-01.30 | 57.7 | 39.3 | 60.6 | 37.8 | 22.8 |
| | 01.30-01.35 | 57.8 | 41.5 | 60.7 | 38.2 | 22.5 |
| | 01.35-01.40 | 58.3 | 41.3 | 61.2 | 39.2 | 22.0 |
| 12. | 01.40-01.45 | 56.7 | 40.8 | 59.6 | 38.0 | 21.6 |
| | 01.45-01.50 | 57.4 | 40.0 | 60.3 | 37.6 | 22.7 |
| | 01.50-01.55 | 60.7 | 41.4 | 63.6 | 38.2 | 25.4 |
| | 01.55-02.00 | 57.6 | 40.8 | 60.5 | 37.8 | 22.7 |
| | 02.00-02.05 | 56.4 | 40.6 | 59.3 | 37.2 | 22.1 |
| | 02.05-02.10 | 59.5 | 37.9 | 62.5 | 37.1 | 25.4 |
| | 02.10-02.15 | 60.0 | 41.8 | 62.9 | 38.9 | 24.0 |
| | 02.15-02.20 | 61.6 | 41.2 | 64.6 | 38.1 | 26.5 |
| | 02.20-02.25 | 58.9 | 43.9 | 61.8 | 39.3 | 22.5 |
| | 02.25-02.30 | 60.0 | 41.4 | 62.9 | 37.7 | 25.2 |
| 13. | 02.30-02.35 | 60.4 | 42.8 | 63.3 | 38.7 | 24.6 |
| | 02.35-02.40 | 57.5 | 41.7 | 60.4 | 38.0 | 22.4 |
| | 02.40-02.45 | 56.6 | 42.1 | 59.4 | 39.2 | 20.2 |
| | 02.45-02.50 | 55.7 | 44.5 | 58.4 | 41.7 | 16.7 |
| | 02.50-02.55 | 55.1 | 44.2 | 57.7 | 40.9 | 16.8 |
| | 02.55-03.00 | 55.8 | 43.6 | 58.5 | 41.3 | 17.2 |
| | 03.00-03.05 | 54.8 | 43.3 | 57.5 | 40.2 | 17.3 |
| | 03.05-03.10 | 52.5 | 42.1 | 55.1 | 39.8 | 15.3 |
| | 03.10-03.15 | 51.2 | 42.5 | 53.6 | 39.8 | 13.8 |
| | 03.15-03.20 | 51.9 | 43.4 | 54.2 | 40.4 | 13.8 |
| | 03.20-03.25 | 54.5 | 44.9 | 57.0 | 41.1 | 15.9 |
| | 03.25-03.30 | 54.2 | 44.7 | 56.7 | 41.2 | 15.5 |
| | 03.30-03.35 | 53.5 | 44.3 | 55.9 | 41.6 | 14.3 |
| | 03.35-03.40 | 54.5 | 42.2 | 57.2 | 40.7 | 16.5 |
| | 03.40-03.45 | 56.7 | 42.1 | 59.5 | 40.9 | 18.6 |
| | 03.45-03.50 | 52.5 | 42.4 | 55.1 | 40.6 | 14.5 |
| | 03.50-03.55 | 49.8 | 42.5 | 51.9 | 40.5 | 11.4 |
| | 03.55-04.00 | 56.2 | 42.5 | 59.0 | 40.7 | 18.3 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(36/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือชูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 19-20/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 51.7 | 42.1 | 54.2 | 40.9 | 13.3 |
| | 04.05-04.10 | 56.3 | 43.2 | 59.1 | 41.6 | 17.5 |
| | 04.10-04.15 | 55.3 | 42.2 | 58.1 | 40.8 | 17.3 |
| | 04.15-04.20 | 55.8 | 52.5 | 56.1 | 41.1 | 15.0 |
| | 04.20-04.25 | 56.0 | 42.1 | 58.8 | 40.9 | 17.9 |
| | 04.25-04.30 | 54.2 | 38.9 | 57.1 | 35.3 | 21.8 |
| | 04.30-04.35 | 51.8 | 41.7 | 54.4 | 34.4 | 20.0 |
| | 04.35-04.40 | 59.4 | 42.1 | 62.3 | 34.1 | 28.2 |
| | 04.40-04.45 | 57.6 | 37.9 | 60.6 | 33.8 | 26.8 |
| | 04.45-04.50 | 56.5 | 37.4 | 59.4 | 33.2 | 26.2 |
| 15. | 04.50-04.55 | 54.8 | 38.6 | 57.7 | 33.3 | 24.4 |
| | 04.55-05.00 | 55.7 | 43.8 | 58.4 | 39.5 | 18.9 |
| | 05.00-05.05 | 59.6 | 48.8 | 62.2 | 39.2 | 23.0 |
| | 05.05-05.10 | 58.6 | 39.5 | 61.5 | 37.4 | 24.1 |
| | 05.10-05.15 | 58.3 | 40.4 | 61.2 | 37.2 | 24.0 |
| | 05.15-05.20 | 60.1 | 38.9 | 63.1 | 36.5 | 26.6 |
| | 05.20-05.25 | 55.3 | 39.6 | 58.2 | 36.5 | 21.7 |
| | 05.25-05.30 | 61.1 | 38.3 | 64.1 | 36.2 | 27.9 |
| | 05.30-05.35 | 56.3 | 40.2 | 59.2 | 36.4 | 22.8 |
| | 05.35-05.40 | 58.9 | 38.6 | 61.9 | 36.3 | 25.6 |
| 16. | 05.40-05.45 | 61.4 | 38.6 | 64.4 | 35.7 | 28.7 |
| | 05.45-05.50 | 62.2 | 39.9 | 65.2 | 36.5 | 28.7 |
| | 05.50-05.55 | 59.6 | 38.1 | 62.6 | 35.3 | 27.3 |
| | 05.55-06.00 | 61.4 | 38.8 | 64.4 | 35.3 | 29.1 |
| | 06.00-07.00 | 55.3 | 40.9 | 55.1 | 35.5 | 19.6 |
| | 07.00-08.00 | 56.4 | 47.2 | 55.8 | 37.5 | 18.3 |
| | 08.00-09.00 | 55.3 | 52.8 | 51.7 | 42.5 | 9.2 |
| | 09.00-10.00 | 52.2 | 47.7 | 50.3 | 38.9 | 11.4 |
| | 10.00-11.00 | 52.4 | 45.5 | 51.4 | 38.4 | 13.0 |
| | 11.00-12.00 | 51.6 | 53.7 | 51.6 | 43.9 | 7.7 |
| 22. | 12.00-13.00 | 49.6 | 58.8 | 49.6 | 48.5 | 1.1 |
| | 13.00-14.00 | 54.7 | 56.1 | 54.7 | 39.8 | 14.9 |
| | 14.00-15.00 | 52.5 | 58.0 | 52.5 | 38.4 | 14.1 |
| | | | | | | |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/37-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(37/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือชูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 53.2 | 59.6 | 53.2 | 43.6 | 9.6 |
| 2. | 16.00-17.00 | 54.7 | 59.7 | 54.7 | 43.8 | 10.9 |
| 3. | 17.00-18.00 | 52.8 | 45.7 | 51.9 | 36.8 | 15.1 |
| 4. | 18.00-19.00 | 52.2 | 43.9 | 51.5 | 36.7 | 14.8 |
| 5. | 19.00-20.00 | 51.2 | 53.8 | 51.2 | 42.2 | 9.0 |
| 6. | 20.00-21.00 | 48.8 | 58.1 | 48.8 | 40.7 | 8.1 |
| 7. | 21.00-22.00 | 48.1 | 44.0 | 46.0 | 38.6 | 7.4 |
| 8. | 22.00-22.05 | 48.3 | 39.6 | 50.7 | 38.2 | 12.5 |
| | 22.05-22.10 | 47.6 | 40.5 | 49.7 | 39.0 | 10.7 |
| | 22.10-22.15 | 49.2 | 40.7 | 51.5 | 38.7 | 12.8 |
| | 22.15-22.20 | 48.8 | 39.7 | 51.2 | 38.6 | 12.6 |
| | 22.20-22.25 | 48.0 | 40.6 | 50.1 | 38.7 | 11.4 |
| | 22.25-22.30 | 48.1 | 40.3 | 50.3 | 38.7 | 11.6 |
| | 22.30-22.35 | 47.8 | 40.0 | 50.0 | 38.8 | 11.2 |
| | 22.35-22.40 | 48.3 | 40.8 | 50.4 | 39.1 | 11.3 |
| | 22.40-22.45 | 48.7 | 41.7 | 50.7 | 40.0 | 10.7 |
| | 22.45-22.50 | 49.8 | 41.8 | 52.1 | 40.1 | 12.0 |
| | 22.50-22.55 | 47.0 | 40.1 | 49.0 | 38.7 | 10.3 |
| | 22.55-23.00 | 48.7 | 41.8 | 50.7 | 39.4 | 11.3 |
| 9. | 23.00-23.05 | 49.3 | 40.6 | 51.7 | 38.9 | 12.8 |
| | 23.05-23.10 | 49.5 | 40.6 | 51.9 | 39.0 | 12.9 |
| | 23.10-23.15 | 49.5 | 41.2 | 51.8 | 39.4 | 12.4 |
| | 23.15-23.20 | 50.5 | 42.3 | 52.8 | 38.5 | 14.3 |
| | 23.20-23.25 | 50.4 | 42.3 | 52.7 | 38.1 | 14.6 |
| | 23.25-23.30 | 52.2 | 40.6 | 54.9 | 37.9 | 17.0 |
| | 23.30-23.35 | 53.2 | 43.4 | 55.7 | 37.9 | 17.8 |
| | 23.35-23.40 | 52.9 | 39.8 | 55.7 | 37.7 | 18.0 |
| | 23.40-23.45 | 52.9 | 39.2 | 55.7 | 37.5 | 18.2 |
| | 23.45-23.50 | 53.8 | 40.5 | 56.6 | 37.6 | 19.0 |
| | 23.50-23.55 | 53.0 | 40.1 | 55.8 | 37.9 | 17.9 |
| | 23.55-00.00 | 53.7 | 40.5 | 56.5 | 37.6 | 18.9 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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

(37/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|---|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือชู | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 53.5 | 40.2 | 56.3 | 38.3 | 18.0 |
| | 00.05-00.10 | 53.0 | 39.1 | 55.8 | 37.5 | 18.3 |
| | 00.10-00.15 | 52.2 | 38.3 | 55.0 | 37.4 | 17.6 |
| | 00.15-00.20 | 53.0 | 39.5 | 55.8 | 37.7 | 18.1 |
| | 00.20-00.25 | 55.3 | 38.5 | 58.2 | 37.5 | 20.7 |
| | 00.25-00.30 | 55.8 | 38.9 | 58.7 | 37.4 | 21.3 |
| | 00.30-00.35 | 53.1 | 40.7 | 55.8 | 37.8 | 18.0 |
| | 00.35-00.40 | 53.1 | 40.6 | 55.8 | 38.3 | 17.5 |
| | 00.40-00.45 | 52.7 | 40.4 | 55.4 | 37.7 | 17.7 |
| | 00.45-00.50 | 50.2 | 41.7 | 52.5 | 38.5 | 14.0 |
| 11. | 00.50-00.55 | 51.5 | 46.9 | 52.7 | 37.7 | 15.0 |
| | 00.55-01.00 | 51.8 | 40.1 | 54.5 | 37.9 | 16.6 |
| | 01.00-01.05 | 52.7 | 39.4 | 55.5 | 37.8 | 17.7 |
| | 01.05-01.10 | 56.4 | 40.1 | 59.3 | 38.5 | 20.8 |
| | 01.10-01.15 | 51.6 | 42.8 | 54.0 | 38.8 | 15.2 |
| | 01.15-01.20 | 52.9 | 40.0 | 55.7 | 38.1 | 17.6 |
| | 01.20-01.25 | 49.0 | 39.3 | 51.5 | 37.7 | 13.8 |
| | 01.25-01.30 | 50.3 | 39.3 | 52.9 | 37.8 | 15.1 |
| | 01.30-01.35 | 54.0 | 41.5 | 56.7 | 38.2 | 18.5 |
| | 01.35-01.40 | 56.3 | 41.3 | 59.2 | 39.2 | 20.0 |
| 12. | 01.40-01.45 | 55.4 | 40.8 | 58.2 | 38.0 | 20.2 |
| | 01.45-01.50 | 51.0 | 40.0 | 53.6 | 37.6 | 16.0 |
| | 01.50-01.55 | 54.3 | 41.4 | 57.1 | 38.2 | 18.9 |
| | 01.55-02.00 | 56.6 | 40.8 | 59.5 | 37.8 | 21.7 |
| | 02.00-02.05 | 57.4 | 40.6 | 60.3 | 37.2 | 23.1 |
| | 02.05-02.10 | 56.2 | 37.9 | 59.1 | 37.1 | 22.0 |
| | 02.10-02.15 | 57.2 | 41.8 | 60.1 | 38.9 | 21.2 |
| | 02.15-02.20 | 56.7 | 41.2 | 59.6 | 38.1 | 21.5 |
| | 02.20-02.25 | 56.4 | 43.9 | 59.1 | 39.3 | 19.8 |
| | 02.25-02.30 | 57.1 | 41.4 | 60.0 | 37.7 | 22.3 |
| 13. | 02.30-02.35 | 55.9 | 42.8 | 58.7 | 38.7 | 20.0 |
| | 02.35-02.40 | 57.3 | 41.7 | 60.2 | 38.0 | 22.2 |
| | 02.40-02.45 | 56.1 | 42.1 | 58.9 | 39.2 | 19.7 |
| | 02.45-02.50 | 56.2 | 44.5 | 58.9 | 41.7 | 17.2 |
| | 02.50-02.55 | 56.7 | 44.2 | 59.4 | 40.9 | 18.5 |
| | 02.55-03.00 | 55.1 | 43.6 | 57.8 | 41.3 | 16.5 |
| | 03.00-03.05 | 55.8 | 43.3 | 58.5 | 40.2 | 18.3 |
| | 03.05-03.10 | 59.1 | 42.1 | 62.0 | 39.8 | 22.2 |
| | 03.10-03.15 | 60.1 | 42.5 | 63.0 | 39.8 | 23.2 |
| | 03.15-03.20 | 54.8 | 43.4 | 57.5 | 40.4 | 17.1 |
| | 03.20-03.25 | 57.9 | 44.9 | 60.7 | 41.1 | 19.6 |
| | 03.25-03.30 | 58.4 | 44.7 | 61.2 | 41.2 | 20.0 |
| | 03.30-03.35 | 60.0 | 44.3 | 62.9 | 41.6 | 21.3 |
| | 03.35-03.40 | 57.3 | 42.2 | 60.2 | 40.7 | 19.5 |
| | 03.40-03.45 | 58.4 | 42.1 | 61.3 | 40.9 | 20.4 |
| | 03.45-03.50 | 58.8 | 42.4 | 61.7 | 40.6 | 21.1 |
| | 03.50-03.55 | 55.9 | 42.5 | 58.7 | 40.5 | 18.2 |
| | 03.55-04.00 | 55.0 | 42.5 | 57.7 | 40.7 | 17.0 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(37/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือชูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 20-21/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 54.1 | 42.1 | 56.8 | 40.9 | 15.9 |
| | 04.05-04.10 | 53.5 | 43.2 | 56.1 | 41.6 | 14.5 |
| | 04.10-04.15 | 54.2 | 42.2 | 56.9 | 40.8 | 16.1 |
| | 04.15-04.20 | 53.2 | 52.5 | 47.9 | 41.1 | 6.8 |
| | 04.20-04.25 | 50.9 | 42.1 | 53.3 | 40.9 | 12.4 |
| | 04.25-04.30 | 49.6 | 38.9 | 52.2 | 35.3 | 16.9 |
| | 04.30-04.35 | 50.3 | 41.7 | 52.7 | 34.4 | 18.3 |
| | 04.35-04.40 | 52.9 | 42.1 | 55.5 | 34.1 | 21.4 |
| | 04.40-04.45 | 52.6 | 37.9 | 55.5 | 33.8 | 21.7 |
| | 04.45-04.50 | 51.9 | 37.4 | 54.7 | 33.2 | 21.5 |
| 15. | 04.50-04.55 | 52.9 | 38.6 | 55.7 | 33.3 | 22.4 |
| | 04.55-05.00 | 55.1 | 43.8 | 57.8 | 39.5 | 18.3 |
| | 05.00-05.05 | 50.9 | 48.8 | 49.7 | 39.2 | 10.5 |
| | 05.05-05.10 | 48.2 | 39.5 | 50.6 | 37.4 | 13.2 |
| | 05.10-05.15 | 54.6 | 40.4 | 57.4 | 37.2 | 20.2 |
| | 05.15-05.20 | 50.1 | 38.9 | 52.8 | 36.5 | 16.3 |
| | 05.20-05.25 | 56.5 | 39.6 | 59.4 | 36.5 | 22.9 |
| | 05.25-05.30 | 50.8 | 38.3 | 53.5 | 36.2 | 17.3 |
| | 05.30-05.35 | 58.1 | 40.2 | 61.0 | 36.4 | 24.6 |
| | 05.35-05.40 | 48.6 | 38.6 | 51.1 | 36.3 | 14.8 |
| 16. | 05.40-05.45 | 49.9 | 38.6 | 52.6 | 35.7 | 16.9 |
| | 05.45-05.50 | 52.8 | 39.9 | 55.6 | 36.5 | 19.1 |
| | 05.50-05.55 | 53.7 | 38.1 | 56.6 | 35.3 | 21.3 |
| | 05.55-06.00 | 57.1 | 38.8 | 60.0 | 35.3 | 24.7 |
| | 06.00-07.00 | 55.3 | 40.9 | 55.1 | 35.5 | 19.6 |
| | 07.00-08.00 | 53.1 | 47.2 | 51.8 | 37.5 | 14.3 |
| | 08.00-09.00 | 55.0 | 52.8 | 51.0 | 42.5 | 8.5 |
| | 09.00-10.00 | 53.5 | 47.7 | 52.2 | 38.9 | 13.3 |
| | 10.00-11.00 | 52.2 | 45.5 | 51.2 | 38.4 | 12.8 |
| | 11.00-12.00 | 48.5 | 53.7 | 48.5 | 43.9 | 4.6 |
| 21. | 12.00-13.00 | 49.1 | 58.8 | 49.1 | 48.5 | 0.6 |
| 22. | 13.00-14.00 | 50.1 | 56.1 | 50.1 | 39.8 | 10.3 |
| 23. | 14.00-15.00 | 50.1 | 58.0 | 50.1 | 38.4 | 11.7 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/38-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(38/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือซูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 51.7 | 59.6 | 51.7 | 43.6 | 8.1 |
| 2. | 16.00-17.00 | 52.2 | 59.7 | 52.2 | 43.8 | 8.4 |
| 3. | 17.00-18.00 | 47.8 | 45.7 | 43.6 | 36.8 | 6.8 |
| 4. | 18.00-19.00 | 46.9 | 43.9 | 43.9 | 36.7 | 7.2 |
| 5. | 19.00-20.00 | 46.4 | 53.8 | 46.4 | 42.2 | 4.2 |
| 6. | 20.00-21.00 | 46.5 | 58.1 | 46.5 | 40.7 | 5.8 |
| 7. | 21.00-22.00 | 46.4 | 44.0 | 42.7 | 38.6 | 4.1 |
| 8. | 22.00-22.05 | 45.7 | 39.6 | 47.5 | 38.2 | 9.3 |
| | 22.05-22.10 | 45.7 | 40.5 | 47.1 | 39.0 | 8.1 |
| | 22.10-22.15 | 45.5 | 40.7 | 46.8 | 38.7 | 8.1 |
| | 22.15-22.20 | 45.6 | 39.7 | 47.3 | 38.6 | 8.7 |
| | 22.20-22.25 | 45.7 | 40.6 | 47.1 | 38.7 | 8.4 |
| | 22.25-22.30 | 46.1 | 40.3 | 47.8 | 38.7 | 9.1 |
| | 22.30-22.35 | 45.7 | 40.0 | 47.3 | 38.8 | 8.5 |
| | 22.35-22.40 | 45.8 | 40.8 | 47.1 | 39.1 | 8.0 |
| | 22.40-22.45 | 45.5 | 41.7 | 46.2 | 40.0 | 6.2 |
| | 22.45-22.50 | 45.4 | 41.8 | 45.9 | 40.1 | 5.8 |
| | 22.50-22.55 | 45.1 | 40.1 | 46.4 | 38.7 | 7.7 |
| | 22.55-23.00 | 44.8 | 41.8 | 44.8 | 39.4 | 5.4 |
| 9. | 23.00-23.05 | 45.1 | 40.6 | 46.2 | 38.9 | 7.3 |
| | 23.05-23.10 | 54.8 | 40.6 | 57.6 | 39.0 | 18.6 |
| | 23.10-23.15 | 47.8 | 41.2 | 49.7 | 39.4 | 10.3 |
| | 23.15-23.20 | 46.6 | 42.3 | 47.6 | 38.5 | 9.1 |
| | 23.20-23.25 | 46.1 | 42.3 | 46.8 | 38.1 | 8.7 |
| | 23.25-23.30 | 45.9 | 40.6 | 47.4 | 37.9 | 9.5 |
| | 23.30-23.35 | 46.1 | 43.4 | 45.8 | 37.9 | 7.9 |
| | 23.35-23.40 | 46.4 | 39.8 | 48.3 | 37.7 | 10.6 |
| | 23.40-23.45 | 46.1 | 39.2 | 48.1 | 37.5 | 10.6 |
| | 23.45-23.50 | 45.6 | 40.5 | 47.0 | 37.6 | 9.4 |
| | 23.50-23.55 | 46.4 | 40.1 | 48.2 | 37.9 | 10.3 |
| | 23.55-00.00 | 55.8 | 40.5 | 58.7 | 37.6 | 21.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(38/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือขุด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 51.2 | 40.2 | 53.8 | 38.3 | 15.5 |
| | 00.05-00.10 | 44.4 | 39.1 | 45.9 | 37.5 | 8.4 |
| | 00.10-00.15 | 44.5 | 38.3 | 46.3 | 37.4 | 8.9 |
| | 00.15-00.20 | 45.2 | 39.5 | 46.8 | 37.7 | 9.1 |
| | 00.20-00.25 | 46.3 | 38.5 | 48.5 | 37.5 | 11.0 |
| | 00.25-00.30 | 47.6 | 38.9 | 50.0 | 37.4 | 12.6 |
| | 00.30-00.35 | 47.4 | 40.7 | 49.4 | 37.8 | 11.6 |
| | 00.35-00.40 | 52.9 | 40.6 | 55.6 | 38.3 | 17.3 |
| | 00.40-00.45 | 50.3 | 40.4 | 52.8 | 37.7 | 15.1 |
| | 00.45-00.50 | 55.9 | 41.7 | 58.7 | 38.5 | 20.2 |
| 11. | 00.50-00.55 | 56.1 | 46.9 | 58.5 | 37.7 | 20.8 |
| | 00.55-01.00 | 57.6 | 40.1 | 60.5 | 37.9 | 22.6 |
| | 01.00-01.05 | 58.4 | 39.4 | 61.3 | 37.8 | 23.5 |
| | 01.05-01.10 | 57.3 | 40.1 | 60.2 | 38.5 | 21.7 |
| | 01.10-01.15 | 58.0 | 42.8 | 60.9 | 38.8 | 22.1 |
| | 01.15-01.20 | 56.8 | 40.0 | 59.7 | 38.1 | 21.6 |
| | 01.20-01.25 | 58.2 | 39.3 | 61.1 | 37.7 | 23.4 |
| | 01.25-01.30 | 57.0 | 39.3 | 59.9 | 37.8 | 22.1 |
| | 01.30-01.35 | 57.1 | 41.5 | 60.0 | 38.2 | 21.8 |
| | 01.35-01.40 | 57.6 | 41.3 | 60.5 | 39.2 | 21.3 |
| 12. | 01.40-01.45 | 56.0 | 40.8 | 58.9 | 38.0 | 20.9 |
| | 01.45-01.50 | 56.7 | 40.0 | 59.6 | 37.6 | 22.0 |
| | 01.50-01.55 | 60.0 | 41.4 | 62.9 | 38.2 | 24.7 |
| | 01.55-02.00 | 62.0 | 40.8 | 65.0 | 37.8 | 27.2 |
| | 02.00-02.05 | 55.7 | 40.6 | 58.6 | 37.2 | 21.4 |
| | 02.05-02.10 | 58.8 | 37.9 | 61.8 | 37.1 | 24.7 |
| | 02.10-02.15 | 59.3 | 41.8 | 62.2 | 38.9 | 23.3 |
| | 02.15-02.20 | 60.9 | 41.2 | 63.9 | 38.1 | 25.8 |
| | 02.20-02.25 | 58.2 | 43.9 | 61.0 | 39.3 | 21.7 |
| | 02.25-02.30 | 59.3 | 41.4 | 62.2 | 37.7 | 24.5 |
| 13. | 02.30-02.35 | 59.7 | 42.8 | 62.6 | 38.7 | 23.9 |
| | 02.35-02.40 | 56.8 | 41.7 | 59.7 | 38.0 | 21.7 |
| | 02.40-02.45 | 55.9 | 42.1 | 58.7 | 39.2 | 19.5 |
| | 02.45-02.50 | 55.0 | 44.5 | 57.6 | 41.7 | 15.9 |
| | 02.50-02.55 | 54.4 | 44.2 | 57.0 | 40.9 | 16.1 |
| | 02.55-03.00 | 55.1 | 43.6 | 57.8 | 41.3 | 16.5 |
| | 03.00-03.05 | 54.1 | 43.3 | 56.7 | 40.2 | 16.5 |
| | 03.05-03.10 | 51.8 | 42.1 | 54.3 | 39.8 | 14.5 |
| | 03.10-03.15 | 50.5 | 42.5 | 52.8 | 39.8 | 13.0 |
| | 03.15-03.20 | 51.2 | 43.4 | 53.4 | 40.4 | 13.0 |
| | 03.20-03.25 | 53.8 | 44.9 | 56.2 | 41.1 | 15.1 |
| | 03.25-03.30 | 53.5 | 44.7 | 55.9 | 41.2 | 14.7 |
| | 03.30-03.35 | 52.8 | 44.3 | 55.1 | 41.6 | 13.5 |
| | 03.35-03.40 | 53.8 | 42.2 | 56.5 | 40.7 | 15.8 |
| | 03.40-03.45 | 56.0 | 42.1 | 58.8 | 40.9 | 17.9 |
| | 03.45-03.50 | 51.8 | 42.4 | 54.3 | 40.6 | 13.7 |
| | 03.50-03.55 | 49.1 | 42.5 | 51.0 | 40.5 | 10.5 |
| | 03.55-04.00 | 55.5 | 42.5 | 58.3 | 40.7 | 17.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(38/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือซูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 21-22/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 51.0 | 42.1 | 53.4 | 40.9 | 12.5 |
| | 04.05-04.10 | 55.5 | 43.2 | 58.2 | 41.6 | 16.6 |
| | 04.10-04.15 | 57.4 | 42.2 | 60.3 | 40.8 | 19.5 |
| | 04.15-04.20 | 50.9 | 52.5 | 50.9 | 41.1 | 9.8 |
| | 04.20-04.25 | 50.6 | 42.1 | 52.9 | 40.9 | 12.0 |
| | 04.25-04.30 | 46.9 | 38.9 | 49.2 | 35.3 | 13.9 |
| | 04.30-04.35 | 50.6 | 41.7 | 53.0 | 34.4 | 18.6 |
| | 04.35-04.40 | 51.6 | 42.1 | 54.1 | 34.1 | 20.0 |
| | 04.40-04.45 | 52.6 | 37.9 | 55.5 | 33.8 | 21.7 |
| | 04.45-04.50 | 59.4 | 37.4 | 62.4 | 33.2 | 29.2 |
| 15. | 04.50-04.55 | 49.4 | 38.6 | 52.0 | 33.3 | 18.7 |
| | 04.55-05.00 | 48.7 | 43.8 | 50.0 | 39.5 | 10.5 |
| | 05.00-05.05 | 50.1 | 48.8 | 47.2 | 39.2 | 8.0 |
| | 05.05-05.10 | 48.9 | 39.5 | 51.4 | 37.4 | 14.0 |
| | 05.10-05.15 | 50.9 | 40.4 | 53.5 | 37.2 | 16.3 |
| | 05.15-05.20 | 57.1 | 38.9 | 60.0 | 36.5 | 23.5 |
| | 05.20-05.25 | 51.8 | 39.6 | 54.5 | 36.5 | 18.0 |
| | 05.25-05.30 | 51.9 | 38.3 | 54.7 | 36.2 | 18.5 |
| | 05.30-05.35 | 49.1 | 40.2 | 51.5 | 36.4 | 15.1 |
| | 05.35-05.40 | 48.6 | 38.6 | 51.1 | 36.3 | 14.8 |
| 16. | 05.40-05.45 | 48.4 | 38.6 | 50.9 | 35.7 | 15.2 |
| | 05.45-05.50 | 47.5 | 39.9 | 49.7 | 36.5 | 13.2 |
| | 05.50-05.55 | 47.4 | 38.1 | 49.9 | 35.3 | 14.6 |
| | 05.55-06.00 | 52.1 | 38.8 | 54.9 | 35.3 | 19.6 |
| | 06.00-07.00 | 50.1 | 40.9 | 49.5 | 35.5 | 14.0 |
| | 07.00-08.00 | 50.2 | 47.2 | 47.2 | 37.5 | 9.7 |
| | 08.00-09.00 | 49.1 | 52.8 | 49.1 | 42.5 | 6.6 |
| | 09.00-10.00 | 55.0 | 47.7 | 54.1 | 38.9 | 15.2 |
| | 10.00-11.00 | 54.9 | 45.5 | 54.4 | 38.4 | 16.0 |
| | 11.00-12.00 | 49.7 | 53.7 | 49.7 | 43.9 | 5.8 |
| 22. | 12.00-13.00 | 49.5 | 58.8 | 49.5 | 48.5 | 1.0 |
| 23. | 13.00-14.00 | 49.9 | 56.1 | 49.9 | 39.8 | 10.1 |
| 24. | 14.00-15.00 | 53.3 | 58.0 | 53.3 | 38.4 | 14.9 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL

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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/39-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(39/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือชูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 53.4 | 59.6 | 53.4 | 43.6 | 9.8 |
| 2. | 16.00-17.00 | 52.6 | 59.7 | 52.6 | 43.8 | 8.8 |
| 3. | 17.00-18.00 | 49.5 | 45.7 | 47.2 | 36.8 | 10.4 |
| 4. | 18.00-19.00 | 51.0 | 43.9 | 50.1 | 36.7 | 13.4 |
| 5. | 19.00-20.00 | 49.9 | 53.8 | 49.9 | 42.2 | 7.7 |
| 6. | 20.00-21.00 | 48.0 | 58.1 | 48.0 | 40.7 | 7.3 |
| 7. | 21.00-22.00 | 47.5 | 44.0 | 44.9 | 38.6 | 6.3 |
| 8. | 22.00-22.05 | 46.7 | 39.6 | 48.8 | 38.2 | 10.6 |
| | 22.05-22.10 | 51.0 | 40.5 | 53.6 | 39.0 | 14.6 |
| | 22.10-22.15 | 46.2 | 40.7 | 47.8 | 38.7 | 9.1 |
| | 22.15-22.20 | 46.2 | 39.7 | 48.1 | 38.6 | 9.5 |
| | 22.20-22.25 | 46.6 | 40.6 | 48.3 | 38.7 | 9.6 |
| | 22.25-22.30 | 46.7 | 40.3 | 48.6 | 38.7 | 9.9 |
| | 22.30-22.35 | 45.8 | 40.0 | 47.5 | 38.8 | 8.7 |
| | 22.35-22.40 | 45.2 | 40.8 | 46.2 | 39.1 | 7.1 |
| | 22.40-22.45 | 45.4 | 41.7 | 46.0 | 40.0 | 6.0 |
| | 22.45-22.50 | 45.1 | 41.8 | 45.4 | 40.1 | 5.3 |
| | 22.50-22.55 | 45.0 | 40.1 | 46.3 | 38.7 | 7.6 |
| | 22.55-23.00 | 44.8 | 41.8 | 44.8 | 39.4 | 5.4 |
| 9. | 23.00-23.05 | 45.0 | 40.6 | 46.0 | 38.9 | 7.1 |
| | 23.05-23.10 | 45.1 | 40.6 | 46.2 | 39.0 | 7.2 |
| | 23.10-23.15 | 45.3 | 41.2 | 46.2 | 39.4 | 6.8 |
| | 23.15-23.20 | 46.6 | 42.3 | 47.6 | 38.5 | 9.1 |
| | 23.20-23.25 | 45.1 | 42.3 | 44.9 | 38.1 | 6.8 |
| | 23.25-23.30 | 45.1 | 40.6 | 46.2 | 37.9 | 8.3 |
| | 23.30-23.35 | 45.2 | 43.4 | 43.5 | 37.9 | 5.6 |
| | 23.35-23.40 | 45.1 | 39.8 | 46.6 | 37.7 | 8.9 |
| | 23.40-23.45 | 45.1 | 39.2 | 46.8 | 37.5 | 9.3 |
| | 23.45-23.50 | 45.5 | 40.5 | 46.8 | 37.6 | 9.2 |
| | 23.50-23.55 | 45.4 | 40.1 | 46.9 | 37.9 | 9.0 |
| | 23.55-00.00 | 44.9 | 40.5 | 45.9 | 37.6 | 8.3 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(39/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือชูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 44.6 | 40.2 | 45.6 | 38.3 | 7.3 |
| | 00.05-00.10 | 44.9 | 39.1 | 46.6 | 37.5 | 9.1 |
| | 00.10-00.15 | 44.7 | 38.3 | 46.6 | 37.4 | 9.2 |
| | 00.15-00.20 | 44.7 | 39.5 | 46.1 | 37.7 | 8.4 |
| | 00.20-00.25 | 44.7 | 38.5 | 46.5 | 37.5 | 9.0 |
| | 00.25-00.30 | 45.0 | 38.9 | 46.8 | 37.4 | 9.4 |
| | 00.30-00.35 | 45.0 | 40.7 | 46.0 | 37.8 | 8.2 |
| | 00.35-00.40 | 45.7 | 40.6 | 47.1 | 38.3 | 8.8 |
| | 00.40-00.45 | 45.5 | 40.4 | 46.9 | 37.7 | 9.2 |
| | 00.45-00.50 | 45.0 | 41.7 | 45.3 | 38.5 | 6.8 |
| | 00.50-00.55 | 45.0 | 46.9 | 45.0 | 37.7 | 7.3 |
| 11. | 00.55-01.00 | 45.3 | 40.1 | 46.7 | 37.9 | 8.8 |
| | 01.00-01.05 | 44.8 | 39.4 | 46.3 | 37.8 | 8.5 |
| | 01.05-01.10 | 44.8 | 40.1 | 46.0 | 38.5 | 7.5 |
| | 01.10-01.15 | 44.8 | 42.8 | 43.5 | 38.8 | 4.7 |
| | 01.15-01.20 | 44.8 | 40.0 | 46.1 | 38.1 | 8.0 |
| | 01.20-01.25 | 44.9 | 39.3 | 46.5 | 37.7 | 8.8 |
| | 01.25-01.30 | 45.0 | 39.3 | 46.6 | 37.8 | 8.8 |
| | 01.30-01.35 | 45.1 | 41.5 | 45.6 | 38.2 | 7.4 |
| | 01.35-01.40 | 45.3 | 41.3 | 46.1 | 39.2 | 6.9 |
| | 01.40-01.45 | 45.1 | 40.8 | 46.1 | 38.0 | 8.1 |
| | 01.45-01.50 | 45.0 | 40.0 | 46.3 | 37.6 | 8.7 |
| 12. | 01.50-01.55 | 45.0 | 41.4 | 45.5 | 38.2 | 7.3 |
| | 01.55-02.00 | 45.0 | 40.8 | 45.9 | 37.8 | 8.1 |
| | 02.00-02.05 | 45.0 | 40.6 | 46.0 | 37.2 | 8.8 |
| | 02.05-02.10 | 45.2 | 37.9 | 47.3 | 37.1 | 10.2 |
| | 02.10-02.15 | 45.3 | 41.8 | 45.7 | 38.9 | 6.8 |
| | 02.15-02.20 | 45.1 | 41.2 | 45.8 | 38.1 | 7.7 |
| | 02.20-02.25 | 45.3 | 43.9 | 42.7 | 39.3 | 3.4 |
| | 02.25-02.30 | 45.1 | 41.4 | 45.7 | 37.7 | 8.0 |
| | 02.30-02.35 | 50.4 | 42.8 | 52.6 | 38.7 | 13.9 |
| | 02.35-02.40 | 45.2 | 41.7 | 45.6 | 38.0 | 7.6 |
| | 02.40-02.45 | 45.0 | 42.1 | 44.9 | 39.2 | 5.7 |
| 13. | 02.45-02.50 | 45.0 | 44.5 | 38.4 | 41.7 | -3.3 |
| | 02.50-02.55 | 44.9 | 44.2 | 39.6 | 40.9 | -1.3 |
| | 02.55-03.00 | 44.9 | 43.6 | 42.0 | 41.3 | 0.7 |
| | 03.00-03.05 | 44.8 | 43.3 | 42.5 | 40.2 | 2.3 |
| | 03.05-03.10 | 44.7 | 42.1 | 44.2 | 39.8 | 4.4 |
| | 03.10-03.15 | 44.7 | 42.5 | 43.7 | 39.8 | 3.9 |
| | 03.15-03.20 | 45.5 | 43.4 | 44.3 | 40.4 | 3.9 |
| | 03.20-03.25 | 44.8 | 44.9 | 44.8 | 41.1 | 3.7 |
| | 03.25-03.30 | 45.2 | 44.7 | 38.6 | 41.2 | -2.6 |
| | 03.30-03.35 | 45.9 | 44.3 | 43.8 | 41.6 | 2.2 |
| | 03.35-03.40 | 50.4 | 42.2 | 52.7 | 40.7 | 12.0 |
| | 03.40-03.45 | 46.2 | 42.1 | 47.1 | 40.9 | 6.2 |
| | 03.45-03.50 | 45.4 | 42.4 | 45.4 | 40.6 | 4.8 |
| | 03.50-03.55 | 46.0 | 42.5 | 46.4 | 40.5 | 5.9 |
| | 03.55-04.00 | 45.4 | 42.5 | 45.3 | 40.7 | 4.6 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(39/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือซูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 22-23/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 45.2 | 42.1 | 45.3 | 40.9 | 4.4 |
| | 04.05-04.10 | 45.3 | 43.2 | 44.1 | 41.6 | 2.5 |
| | 04.10-04.15 | 51.6 | 42.2 | 54.1 | 40.8 | 13.3 |
| | 04.15-04.20 | 44.9 | 52.5 | 44.9 | 41.1 | 3.8 |
| | 04.20-04.25 | 44.6 | 42.1 | 44.0 | 40.9 | 3.1 |
| | 04.25-04.30 | 45.2 | 38.9 | 47.0 | 35.3 | 11.7 |
| | 04.30-04.35 | 44.6 | 41.7 | 44.5 | 34.4 | 10.1 |
| | 04.35-04.40 | 44.6 | 42.1 | 44.0 | 34.1 | 9.9 |
| | 04.40-04.45 | 53.6 | 37.9 | 56.5 | 33.8 | 22.7 |
| | 04.45-04.50 | 44.9 | 37.4 | 47.0 | 33.2 | 13.8 |
| 15. | 04.50-04.55 | 44.7 | 38.6 | 46.5 | 33.3 | 13.2 |
| | 04.55-05.00 | 50.0 | 43.8 | 51.8 | 39.5 | 12.3 |
| | 05.00-05.05 | 50.1 | 48.8 | 47.2 | 39.2 | 8.0 |
| | 05.05-05.10 | 44.3 | 39.5 | 45.6 | 37.4 | 8.2 |
| | 05.10-05.15 | 45.0 | 40.4 | 46.2 | 37.2 | 9.0 |
| | 05.15-05.20 | 44.5 | 38.9 | 46.1 | 36.5 | 9.6 |
| | 05.20-05.25 | 53.4 | 39.6 | 56.2 | 36.5 | 19.7 |
| | 05.25-05.30 | 51.2 | 38.3 | 54.0 | 36.2 | 17.8 |
| | 05.30-05.35 | 45.3 | 40.2 | 46.7 | 36.4 | 10.3 |
| | 05.35-05.40 | 54.7 | 38.6 | 57.6 | 36.3 | 21.3 |
| 16. | 05.40-05.45 | 44.9 | 38.6 | 46.7 | 35.7 | 11.0 |
| | 05.45-05.50 | 52.4 | 39.9 | 55.1 | 36.5 | 18.6 |
| | 05.50-05.55 | 55.1 | 38.1 | 58.0 | 35.3 | 22.7 |
| | 05.55-06.00 | 55.0 | 38.8 | 57.9 | 35.3 | 22.6 |
| | 06.00-07.00 | 54.7 | 40.9 | 54.5 | 35.5 | 19.0 |
| | 07.00-08.00 | 57.1 | 47.2 | 56.6 | 37.5 | 19.1 |
| | 08.00-09.00 | 56.9 | 52.8 | 54.8 | 42.5 | 12.3 |
| | 09.00-10.00 | 54.6 | 47.7 | 53.6 | 38.9 | 14.7 |
| | 10.00-11.00 | 54.9 | 45.5 | 54.4 | 38.4 | 16.0 |
| | 11.00-12.00 | 55.6 | 53.7 | 51.1 | 43.9 | 7.2 |
| 22. | 12.00-13.00 | 51.8 | 58.8 | 51.8 | 48.5 | 3.3 |
| 23. | 13.00-14.00 | 56.0 | 56.1 | 56.0 | 39.8 | 16.2 |
| 24. | 14.00-15.00 | 53.9 | 58.0 | 53.9 | 38.4 | 15.5 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ
จังหวัดพิจิตร 66150
Job No. : S660183/June

Report No. : 1646/2023/40-42
Report Date : June 13, 2023
Sampling Date : April 19-26 & June 4-5, 2023
Type of Sample : เสียงรบกวน

(40/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือชูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 56.0 | 59.6 | 56.0 | 43.6 | 12.4 |
| 2. | 16.00-17.00 | 55.8 | 59.7 | 55.8 | 43.8 | 12.0 |
| 3. | 17.00-18.00 | 53.1 | 45.7 | 52.2 | 36.8 | 15.4 |
| 4. | 18.00-19.00 | 49.8 | 43.9 | 48.5 | 36.7 | 11.8 |
| 5. | 19.00-20.00 | 50.6 | 53.8 | 50.6 | 42.2 | 8.4 |
| 6. | 20.00-21.00 | 49.4 | 58.1 | 49.4 | 40.7 | 8.7 |
| 7. | 21.00-22.00 | 45.4 | 44.0 | 39.8 | 38.6 | 1.2 |
| 8. | 22.00-22.05 | 44.8 | 39.6 | 46.2 | 38.2 | 8.0 |
| | 22.05-22.10 | 45.0 | 40.5 | 46.1 | 39.0 | 7.1 |
| | 22.10-22.15 | 45.5 | 40.7 | 46.8 | 38.7 | 8.1 |
| | 22.15-22.20 | 44.9 | 39.7 | 46.3 | 38.6 | 7.7 |
| | 22.20-22.25 | 45.1 | 40.6 | 46.2 | 38.7 | 7.5 |
| | 22.25-22.30 | 45.2 | 40.3 | 46.5 | 38.7 | 7.8 |
| | 22.30-22.35 | 44.8 | 40.0 | 46.1 | 38.8 | 7.3 |
| | 22.35-22.40 | 45.0 | 40.8 | 45.9 | 39.1 | 6.8 |
| | 22.40-22.45 | 44.6 | 41.7 | 44.5 | 40.0 | 4.5 |
| | 22.45-22.50 | 44.2 | 41.8 | 43.5 | 40.1 | 3.4 |
| | 22.50-22.55 | 44.6 | 40.1 | 45.7 | 38.7 | 7.0 |
| | 22.55-23.00 | 44.6 | 41.8 | 44.4 | 39.4 | 5.0 |
| 9. | 23.00-23.05 | 43.9 | 40.6 | 44.2 | 38.9 | 5.3 |
| | 23.05-23.10 | 43.9 | 40.6 | 44.2 | 39.0 | 5.2 |
| | 23.10-23.15 | 44.2 | 41.2 | 44.2 | 39.4 | 4.8 |
| | 23.15-23.20 | 43.9 | 42.3 | 41.8 | 38.5 | 3.3 |
| | 23.20-23.25 | 43.5 | 42.3 | 40.3 | 38.1 | 2.2 |
| | 23.25-23.30 | 43.9 | 40.6 | 44.2 | 37.9 | 6.3 |
| | 23.30-23.35 | 44.3 | 43.4 | 40.0 | 37.9 | 2.1 |
| | 23.35-23.40 | 43.9 | 39.8 | 44.8 | 37.7 | 7.1 |
| | 23.40-23.45 | 43.8 | 39.2 | 45.0 | 37.5 | 7.5 |
| | 23.45-23.50 | 43.6 | 40.5 | 43.7 | 37.6 | 6.1 |
| | 23.50-23.55 | 43.5 | 40.1 | 43.8 | 37.9 | 5.9 |
| | 23.55-00.00 | 43.4 | 40.5 | 43.3 | 37.6 | 5.7 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(40/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือซูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 43.5 | 40.2 | 43.8 | 38.3 | 5.5 |
| | 00.05-00.10 | 43.6 | 39.1 | 44.7 | 37.5 | 7.2 |
| | 00.10-00.15 | 43.6 | 38.3 | 45.1 | 37.4 | 7.7 |
| | 00.15-00.20 | 43.5 | 39.5 | 44.3 | 37.7 | 6.6 |
| | 00.20-00.25 | 44.2 | 38.5 | 45.8 | 37.5 | 8.3 |
| | 00.25-00.30 | 43.5 | 38.9 | 44.7 | 37.4 | 7.3 |
| | 00.30-00.35 | 43.3 | 40.7 | 42.8 | 37.8 | 5.0 |
| | 00.35-00.40 | 43.6 | 40.6 | 43.6 | 38.3 | 5.3 |
| | 00.40-00.45 | 43.7 | 40.4 | 44.0 | 37.7 | 6.3 |
| | 00.45-00.50 | 43.6 | 41.7 | 42.1 | 38.5 | 3.6 |
| 11. | 00.50-00.55 | 44.1 | 46.9 | 44.1 | 37.7 | 6.4 |
| | 00.55-01.00 | 44.2 | 40.1 | 45.1 | 37.9 | 7.2 |
| | 01.00-01.05 | 43.6 | 39.4 | 44.5 | 37.8 | 6.7 |
| | 01.05-01.10 | 43.8 | 40.1 | 44.4 | 38.5 | 5.9 |
| | 01.10-01.15 | 43.8 | 42.8 | 39.9 | 38.8 | 1.1 |
| | 01.15-01.20 | 43.9 | 40.0 | 44.6 | 38.1 | 6.5 |
| | 01.20-01.25 | 43.8 | 39.3 | 44.9 | 37.7 | 7.2 |
| | 01.25-01.30 | 43.8 | 39.3 | 44.9 | 37.8 | 7.1 |
| | 01.30-01.35 | 43.9 | 41.5 | 43.2 | 38.2 | 5.0 |
| | 01.35-01.40 | 43.8 | 41.3 | 43.2 | 39.2 | 4.0 |
| 12. | 01.40-01.45 | 44.0 | 40.8 | 44.2 | 38.0 | 6.2 |
| | 01.45-01.50 | 44.0 | 40.0 | 44.8 | 37.6 | 7.2 |
| | 01.50-01.55 | 44.0 | 41.4 | 43.5 | 38.2 | 5.3 |
| | 01.55-02.00 | 43.9 | 40.8 | 44.0 | 37.8 | 6.2 |
| | 02.00-02.05 | 44.0 | 40.6 | 44.3 | 37.2 | 7.1 |
| | 02.05-02.10 | 44.1 | 37.9 | 45.9 | 37.1 | 8.8 |
| | 02.10-02.15 | 44.1 | 41.8 | 43.2 | 38.9 | 4.3 |
| | 02.15-02.20 | 56.1 | 41.2 | 59.0 | 38.1 | 20.9 |
| | 02.20-02.25 | 55.5 | 43.9 | 58.2 | 39.3 | 18.9 |
| | 02.25-02.30 | 55.2 | 41.4 | 58.0 | 37.7 | 20.3 |
| 13. | 02.30-02.35 | 58.1 | 42.8 | 61.0 | 38.7 | 22.3 |
| | 02.35-02.40 | 56.7 | 41.7 | 59.6 | 38.0 | 21.6 |
| | 02.40-02.45 | 56.7 | 42.1 | 59.5 | 39.2 | 20.3 |
| | 02.45-02.50 | 56.6 | 44.5 | 59.3 | 41.7 | 17.6 |
| | 02.50-02.55 | 51.5 | 44.2 | 53.6 | 40.9 | 12.7 |
| | 02.55-03.00 | 44.5 | 43.6 | 40.2 | 41.3 | -1.1 |
| | 03.00-03.05 | 50.4 | 43.3 | 52.5 | 40.2 | 12.3 |
| | 03.05-03.10 | 46.9 | 42.1 | 48.2 | 39.8 | 8.4 |
| | 03.10-03.15 | 53.1 | 42.5 | 55.7 | 39.8 | 15.9 |
| | 03.15-03.20 | 51.8 | 43.4 | 54.1 | 40.4 | 13.7 |
| | 03.20-03.25 | 44.2 | 44.9 | 44.2 | 41.1 | 3.1 |
| | 03.25-03.30 | 44.2 | 44.7 | 44.2 | 41.2 | 3.0 |
| | 03.30-03.35 | 44.0 | 44.3 | 44.0 | 41.6 | 2.4 |
| | 03.35-03.40 | 43.7 | 42.2 | 41.4 | 40.7 | 0.7 |
| | 03.40-03.45 | 45.7 | 42.1 | 46.2 | 40.9 | 5.3 |
| | 03.45-03.50 | 44.0 | 42.4 | 41.9 | 40.6 | 1.3 |
| | 03.50-03.55 | 47.4 | 42.5 | 48.7 | 40.5 | 8.2 |
| | 03.55-04.00 | 43.8 | 42.5 | 40.9 | 40.7 | 0.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(40/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือซูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 23-24/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 43.8 | 42.1 | 41.9 | 40.9 | 1.0 |
| | 04.05-04.10 | 43.9 | 43.2 | 38.6 | 41.6 | -3.0 |
| | 04.10-04.15 | 43.9 | 42.2 | 42.0 | 40.8 | 1.2 |
| | 04.15-04.20 | 51.3 | 52.5 | 51.3 | 41.1 | 10.2 |
| | 04.20-04.25 | 45.3 | 42.1 | 45.5 | 40.9 | 4.6 |
| | 04.25-04.30 | 44.6 | 38.9 | 46.2 | 35.3 | 10.9 |
| | 04.30-04.35 | 53.8 | 41.7 | 56.5 | 34.4 | 22.1 |
| | 04.35-04.40 | 53.3 | 42.1 | 56.0 | 34.1 | 21.9 |
| | 04.40-04.45 | 52.5 | 37.9 | 55.3 | 33.8 | 21.5 |
| | 04.45-04.50 | 45.7 | 37.4 | 48.0 | 33.2 | 14.8 |
| 15. | 04.50-04.55 | 44.9 | 38.6 | 46.7 | 33.3 | 13.4 |
| | 04.55-05.00 | 50.0 | 43.8 | 51.8 | 39.5 | 12.3 |
| | 05.00-05.05 | 44.3 | 48.8 | 44.3 | 39.2 | 5.1 |
| | 05.05-05.10 | 50.2 | 39.5 | 52.8 | 37.4 | 15.4 |
| | 05.10-05.15 | 43.8 | 40.4 | 44.1 | 37.2 | 6.9 |
| | 05.15-05.20 | 53.9 | 38.9 | 56.8 | 36.5 | 20.3 |
| | 05.20-05.25 | 45.3 | 39.6 | 46.9 | 36.5 | 10.4 |
| | 05.25-05.30 | 55.0 | 38.3 | 57.9 | 36.2 | 21.7 |
| | 05.30-05.35 | 45.0 | 40.2 | 46.3 | 36.4 | 9.9 |
| | 05.35-05.40 | 54.1 | 38.6 | 57.0 | 36.3 | 20.7 |
| 16. | 05.40-05.45 | 55.0 | 38.6 | 57.9 | 35.7 | 22.2 |
| | 05.45-05.50 | 55.6 | 39.9 | 58.5 | 36.5 | 22.0 |
| | 05.50-05.55 | 58.1 | 38.1 | 61.1 | 35.3 | 25.8 |
| | 05.55-06.00 | 56.1 | 38.8 | 59.0 | 35.3 | 23.7 |
| | 06.00-07.00 | 56.1 | 40.9 | 56.0 | 35.5 | 20.5 |
| | 07.00-08.00 | 57.5 | 47.2 | 57.1 | 37.5 | 19.6 |
| | 08.00-09.00 | 57.1 | 52.8 | 55.1 | 42.5 | 12.6 |
| | 09.00-10.00 | 57.0 | 47.7 | 56.5 | 38.9 | 17.6 |
| | 10.00-11.00 | 55.2 | 45.5 | 54.7 | 38.4 | 16.3 |
| | 11.00-12.00 | 52.7 | 53.7 | 52.7 | 43.9 | 8.8 |
| 22. | 12.00-13.00 | 50.4 | 58.8 | 50.4 | 48.5 | 1.9 |
| 23. | 13.00-14.00 | 49.4 | 56.1 | 49.4 | 39.8 | 9.6 |
| 24. | 14.00-15.00 | 51.1 | 58.0 | 51.1 | 38.4 | 12.7 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/41-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(41/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือชูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 50.6 | 59.6 | 50.6 | 43.6 | 7.0 |
| 2. | 16.00-17.00 | 51.7 | 59.7 | 51.7 | 43.8 | 7.9 |
| 3. | 17.00-18.00 | 47.3 | 45.7 | 42.2 | 36.8 | 5.4 |
| 4. | 18.00-19.00 | 46.4 | 43.9 | 42.8 | 36.7 | 6.1 |
| 5. | 19.00-20.00 | 46.4 | 53.8 | 46.4 | 42.2 | 4.2 |
| 6. | 20.00-21.00 | 46.4 | 58.1 | 46.4 | 40.7 | 5.7 |
| 7. | 21.00-22.00 | 46.3 | 44.0 | 42.4 | 38.6 | 3.8 |
| 8. | 22.00-22.05 | 45.7 | 39.6 | 47.5 | 38.2 | 9.3 |
| | 22.05-22.10 | 45.8 | 40.5 | 47.3 | 39.0 | 8.3 |
| | 22.10-22.15 | 45.5 | 40.7 | 46.8 | 38.7 | 8.1 |
| | 22.15-22.20 | 45.4 | 39.7 | 47.0 | 38.6 | 8.4 |
| | 22.20-22.25 | 45.1 | 40.6 | 46.2 | 38.7 | 7.5 |
| | 22.25-22.30 | 44.8 | 40.3 | 45.9 | 38.7 | 7.2 |
| | 22.30-22.35 | 45.1 | 40.0 | 46.5 | 38.8 | 7.7 |
| | 22.35-22.40 | 54.8 | 40.8 | 57.6 | 39.1 | 18.5 |
| | 22.40-22.45 | 47.8 | 41.7 | 49.6 | 40.0 | 9.6 |
| | 22.45-22.50 | 46.6 | 41.8 | 47.9 | 40.1 | 7.8 |
| | 22.50-22.55 | 46.1 | 40.1 | 47.8 | 38.7 | 9.1 |
| | 22.55-23.00 | 45.9 | 41.8 | 46.8 | 39.4 | 7.4 |
| 9. | 23.00-23.05 | 46.1 | 40.6 | 47.7 | 38.9 | 8.8 |
| | 23.05-23.10 | 46.4 | 40.6 | 48.1 | 39.0 | 9.1 |
| | 23.10-23.15 | 46.1 | 41.2 | 47.4 | 39.4 | 8.0 |
| | 23.15-23.20 | 45.6 | 42.3 | 45.9 | 38.5 | 7.4 |
| | 23.20-23.25 | 46.4 | 42.3 | 47.3 | 38.1 | 9.2 |
| | 23.25-23.30 | 55.8 | 40.6 | 58.7 | 37.9 | 20.8 |
| | 23.30-23.35 | 51.2 | 43.4 | 53.4 | 37.9 | 15.5 |
| | 23.35-23.40 | 44.4 | 39.8 | 45.6 | 37.7 | 7.9 |
| | 23.40-23.45 | 44.5 | 39.2 | 46.0 | 37.5 | 8.5 |
| | 23.45-23.50 | 45.2 | 40.5 | 46.4 | 37.6 | 8.8 |
| | 23.50-23.55 | 46.3 | 40.1 | 48.1 | 37.9 | 10.2 |
| | 23.55-00.00 | 47.6 | 40.5 | 49.7 | 37.6 | 12.1 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



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

(41/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือซูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 47.4 | 40.2 | 49.5 | 38.3 | 11.2 |
| | 00.05-00.10 | 52.9 | 39.1 | 55.7 | 37.5 | 18.2 |
| | 00.10-00.15 | 50.3 | 38.3 | 53.0 | 37.4 | 15.6 |
| | 00.15-00.20 | 55.9 | 39.5 | 58.8 | 37.7 | 21.1 |
| | 00.20-00.25 | 56.1 | 38.5 | 59.0 | 37.5 | 21.5 |
| | 00.25-00.30 | 57.6 | 38.9 | 60.5 | 37.4 | 23.1 |
| | 00.30-00.35 | 58.4 | 40.7 | 61.3 | 37.8 | 23.5 |
| | 00.35-00.40 | 57.3 | 40.6 | 60.2 | 38.3 | 21.9 |
| | 00.40-00.45 | 58.0 | 40.4 | 60.9 | 37.7 | 23.2 |
| | 00.45-00.50 | 56.8 | 41.7 | 59.7 | 38.5 | 21.2 |
| 11. | 00.50-00.55 | 58.2 | 46.9 | 60.9 | 37.7 | 23.2 |
| | 00.55-01.00 | 57.0 | 40.1 | 59.9 | 37.9 | 22.0 |
| | 01.00-01.05 | 57.1 | 39.4 | 60.0 | 37.8 | 22.2 |
| | 01.05-01.10 | 57.6 | 40.1 | 60.5 | 38.5 | 22.0 |
| | 01.10-01.15 | 56.0 | 42.8 | 58.8 | 38.8 | 20.0 |
| | 01.15-01.20 | 56.7 | 40.0 | 59.6 | 38.1 | 21.5 |
| | 01.20-01.25 | 60.0 | 39.3 | 63.0 | 37.7 | 25.3 |
| | 01.25-01.30 | 56.2 | 39.3 | 59.1 | 37.8 | 21.3 |
| | 01.30-01.35 | 55.7 | 41.5 | 58.5 | 38.2 | 20.3 |
| | 01.35-01.40 | 58.8 | 41.3 | 61.7 | 39.2 | 22.5 |
| 12. | 01.40-01.45 | 59.3 | 40.8 | 62.2 | 38.0 | 24.2 |
| | 01.45-01.50 | 60.9 | 40.0 | 63.9 | 37.6 | 26.3 |
| | 01.50-01.55 | 58.2 | 41.4 | 61.1 | 38.2 | 22.9 |
| | 01.55-02.00 | 59.3 | 40.8 | 62.2 | 37.8 | 24.4 |
| | 02.00-02.05 | 59.7 | 40.6 | 62.6 | 37.2 | 25.4 |
| | 02.05-02.10 | 56.8 | 37.9 | 59.7 | 37.1 | 22.6 |
| | 02.10-02.15 | 55.9 | 41.8 | 58.7 | 38.9 | 19.8 |
| | 02.15-02.20 | 55.0 | 41.2 | 57.8 | 38.1 | 19.7 |
| | 02.20-02.25 | 54.4 | 43.9 | 57.0 | 39.3 | 17.7 |
| | 02.25-02.30 | 55.1 | 41.4 | 57.9 | 37.7 | 20.2 |
| 13. | 02.30-02.35 | 54.1 | 42.8 | 56.8 | 38.7 | 18.1 |
| | 02.35-02.40 | 51.8 | 41.7 | 54.4 | 38.0 | 16.4 |
| | 02.40-02.45 | 50.5 | 42.1 | 52.8 | 39.2 | 13.6 |
| | 02.45-02.50 | 51.2 | 44.5 | 53.2 | 41.7 | 11.5 |
| | 02.50-02.55 | 53.8 | 44.2 | 56.3 | 40.9 | 15.4 |
| | 02.55-03.00 | 53.5 | 43.6 | 56.0 | 41.3 | 14.7 |
| | 03.00-03.05 | 52.8 | 43.3 | 55.3 | 40.2 | 15.1 |
| | 03.05-03.10 | 53.8 | 42.1 | 56.5 | 39.8 | 16.7 |
| | 03.10-03.15 | 56.0 | 42.5 | 58.8 | 39.8 | 19.0 |
| | 03.15-03.20 | 51.8 | 43.4 | 54.1 | 40.4 | 13.7 |
| | 03.20-03.25 | 49.1 | 44.9 | 50.0 | 41.1 | 8.9 |
| | 03.25-03.30 | 55.5 | 44.7 | 58.1 | 41.2 | 16.9 |
| | 03.30-03.35 | 51.0 | 44.3 | 53.0 | 41.6 | 11.4 |
| | 03.35-03.40 | 55.5 | 42.2 | 58.3 | 40.7 | 17.6 |
| | 03.40-03.45 | 57.4 | 42.1 | 60.3 | 40.9 | 19.4 |
| | 03.45-03.50 | 50.9 | 42.4 | 53.2 | 40.6 | 12.6 |
| | 03.50-03.55 | 50.6 | 42.5 | 52.9 | 40.5 | 12.4 |
| | 03.55-04.00 | 46.9 | 42.5 | 47.9 | 40.7 | 7.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(41/3-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือชูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 24-25/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 50.6 | 42.1 | 52.9 | 40.9 | 12.0 |
| | 04.05-04.10 | 51.6 | 43.2 | 53.9 | 41.6 | 12.3 |
| | 04.10-04.15 | 52.6 | 42.2 | 55.2 | 40.8 | 14.4 |
| | 04.15-04.20 | 59.4 | 52.5 | 61.4 | 41.1 | 20.3 |
| | 04.20-04.25 | 49.4 | 42.1 | 51.5 | 40.9 | 10.6 |
| | 04.25-04.30 | 48.7 | 38.9 | 51.2 | 35.3 | 15.9 |
| | 04.30-04.35 | 50.1 | 41.7 | 52.4 | 34.4 | 18.0 |
| | 04.35-04.40 | 48.9 | 42.1 | 50.9 | 34.1 | 16.8 |
| | 04.40-04.45 | 50.9 | 37.9 | 53.7 | 33.8 | 19.9 |
| | 04.45-04.50 | 57.1 | 37.4 | 60.1 | 33.2 | 26.9 |
| 15. | 04.50-04.55 | 51.8 | 38.6 | 54.6 | 33.3 | 21.3 |
| | 04.55-05.00 | 51.9 | 43.8 | 54.2 | 39.5 | 14.7 |
| | 05.00-05.05 | 49.1 | 48.8 | 40.3 | 39.2 | 1.1 |
| | 05.05-05.10 | 48.6 | 39.5 | 51.0 | 37.4 | 13.6 |
| | 05.10-05.15 | 48.4 | 40.4 | 50.7 | 37.2 | 13.5 |
| | 05.15-05.20 | 47.5 | 38.9 | 49.9 | 36.5 | 13.4 |
| | 05.20-05.25 | 47.4 | 39.6 | 49.6 | 36.5 | 13.1 |
| | 05.25-05.30 | 52.1 | 38.3 | 54.9 | 36.2 | 18.7 |
| | 05.30-05.35 | 48.8 | 40.2 | 51.2 | 36.4 | 14.8 |
| | 05.35-05.40 | 48.6 | 38.6 | 51.1 | 36.3 | 14.8 |
| 16. | 05.40-05.45 | 48.6 | 38.6 | 51.1 | 35.7 | 15.4 |
| | 05.45-05.50 | 48.2 | 39.9 | 50.5 | 36.5 | 14.0 |
| | 05.50-05.55 | 46.3 | 38.1 | 48.6 | 35.3 | 13.3 |
| | 05.55-06.00 | 46.3 | 38.8 | 48.4 | 35.3 | 13.1 |
| | 06.00-07.00 | 51.2 | 40.9 | 50.8 | 35.5 | 15.3 |
| | 07.00-08.00 | 49.0 | 47.2 | 44.3 | 37.5 | 6.8 |
| | 08.00-09.00 | 48.4 | 52.8 | 48.4 | 42.5 | 5.9 |
| | 09.00-10.00 | 50.0 | 47.7 | 46.1 | 38.9 | 7.2 |
| | 10.00-11.00 | 50.7 | 45.5 | 49.1 | 38.4 | 10.7 |
| | 11.00-12.00 | 51.7 | 53.7 | 51.7 | 43.9 | 7.8 |
| 22. | 12.00-13.00 | 58.1 | 58.8 | 58.1 | 48.5 | 9.6 |
| 23. | 13.00-14.00 | 58.4 | 56.1 | 54.5 | 39.8 | 14.7 |
| 24. | 14.00-15.00 | 51.9 | 58.0 | 51.9 | 38.4 | 13.5 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1646/2023/42-42

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : June 13, 2023

Sampling Date : April 19-26 & June 4-5, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน
จังหวัดพิจิตร 66150

Type of Sample : เสียงรบกวน

Job No. : S660183/June

(42/1-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|---------------------------------|------------------------|--------------------------------------|------------------|
| | | วิธีวัดโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือชูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีกรรบกวน (Leq) | ระดับเสียงขณะมีกรรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 1. | 15.00-16.00 | 48.3 | 59.6 | 48.3 | 43.6 | 4.7 |
| 2. | 16.00-17.00 | 48.6 | 59.7 | 48.6 | 43.8 | 4.8 |
| 3. | 17.00-18.00 | 48.4 | 45.7 | 45.1 | 36.8 | 8.3 |
| 4. | 18.00-19.00 | 49.7 | 43.9 | 48.4 | 36.7 | 11.7 |
| 5. | 19.00-20.00 | 50.1 | 53.8 | 50.1 | 42.2 | 7.9 |
| 6. | 20.00-21.00 | 49.7 | 58.1 | 49.7 | 40.7 | 9.0 |
| 7. | 21.00-22.00 | 49.9 | 44.0 | 48.6 | 38.6 | 10.0 |
| 8. | 22.00-22.05 | 49.1 | 39.6 | 51.6 | 38.2 | 13.4 |
| | 22.05-22.10 | 49.0 | 40.5 | 51.3 | 39.0 | 12.3 |
| | 22.10-22.15 | 48.8 | 40.7 | 51.1 | 38.7 | 12.4 |
| | 22.15-22.20 | 48.8 | 39.7 | 51.2 | 38.6 | 12.6 |
| | 22.20-22.25 | 49.0 | 40.6 | 51.3 | 38.7 | 12.6 |
| | 22.25-22.30 | 48.9 | 40.3 | 51.3 | 38.7 | 12.6 |
| | 22.30-22.35 | 48.6 | 40.0 | 51.0 | 38.8 | 12.2 |
| | 22.35-22.40 | 51.3 | 40.8 | 53.9 | 39.1 | 14.8 |
| | 22.40-22.45 | 47.9 | 41.7 | 49.7 | 40.0 | 9.7 |
| | 22.45-22.50 | 48.0 | 41.8 | 49.8 | 40.1 | 9.7 |
| | 22.50-22.55 | 48.2 | 40.1 | 50.5 | 38.7 | 11.8 |
| | 22.55-23.00 | 45.5 | 41.8 | 46.1 | 39.4 | 6.7 |
| 9. | 23.00-23.05 | 45.7 | 40.6 | 47.1 | 38.9 | 8.2 |
| | 23.05-23.10 | 44.9 | 40.6 | 45.9 | 39.0 | 6.9 |
| | 23.10-23.15 | 47.2 | 41.2 | 48.9 | 39.4 | 9.5 |
| | 23.15-23.20 | 48.2 | 42.3 | 49.9 | 38.5 | 11.4 |
| | 23.20-23.25 | 48.8 | 42.3 | 50.7 | 38.1 | 12.6 |
| | 23.25-23.30 | 48.1 | 40.6 | 50.2 | 37.9 | 12.3 |
| | 23.30-23.35 | 47.8 | 43.4 | 48.8 | 37.9 | 10.9 |
| | 23.35-23.40 | 47.7 | 39.8 | 49.9 | 37.7 | 12.2 |
| | 23.40-23.45 | 47.4 | 39.2 | 49.7 | 37.5 | 12.2 |
| | 23.45-23.50 | 47.5 | 40.5 | 49.5 | 37.6 | 11.9 |
| | 23.50-23.55 | 47.6 | 40.1 | 49.7 | 37.9 | 11.8 |
| | 23.55-00.00 | 47.7 | 40.5 | 49.8 | 37.6 | 12.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

(42/2-3)

| Item | Time | Result (dB(A)) | | | | |
|----------------------------|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือซูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 10. | 00.00-00.05 | 47.8 | 40.2 | 50.0 | 38.3 | 11.7 |
| | 00.05-00.10 | 48.1 | 39.1 | 50.5 | 37.5 | 13.0 |
| | 00.10-00.15 | 48.3 | 38.3 | 50.8 | 37.4 | 13.4 |
| | 00.15-00.20 | 48.4 | 39.5 | 50.8 | 37.7 | 13.1 |
| | 00.20-00.25 | 48.3 | 38.5 | 50.8 | 37.5 | 13.3 |
| | 00.25-00.30 | 47.3 | 38.9 | 49.6 | 37.4 | 12.2 |
| | 00.30-00.35 | 47.5 | 40.7 | 49.5 | 37.8 | 11.7 |
| | 00.35-00.40 | 46.8 | 40.6 | 48.6 | 38.3 | 10.3 |
| | 00.40-00.45 | 46.5 | 40.4 | 48.3 | 37.7 | 10.6 |
| | 00.45-00.50 | 46.7 | 41.7 | 48.0 | 38.5 | 9.5 |
| 11. | 00.50-00.55 | 47.0 | 46.9 | 33.6 | 37.7 | -4.1 |
| | 00.55-01.00 | 47.0 | 40.1 | 49.0 | 37.9 | 11.1 |
| | 01.00-01.05 | 44.5 | 39.4 | 45.9 | 37.8 | 8.1 |
| | 01.05-01.10 | 44.2 | 40.1 | 45.1 | 38.5 | 6.6 |
| | 01.10-01.15 | 43.7 | 42.8 | 39.4 | 38.8 | 0.6 |
| | 01.15-01.20 | 43.9 | 40.0 | 44.6 | 38.1 | 6.5 |
| | 01.20-01.25 | 42.2 | 39.3 | 42.1 | 37.7 | 4.4 |
| | 01.25-01.30 | 41.7 | 39.3 | 41.0 | 37.8 | 3.2 |
| | 01.30-01.35 | 44.0 | 41.5 | 43.4 | 38.2 | 5.2 |
| | 01.35-01.40 | 42.5 | 41.3 | 39.3 | 39.2 | 0.1 |
| 12. | 01.40-01.45 | 42.3 | 40.8 | 40.0 | 38.0 | 2.0 |
| | 01.45-01.50 | 43.6 | 40.0 | 44.1 | 37.6 | 6.5 |
| | 01.50-01.55 | 43.1 | 41.4 | 41.2 | 38.2 | 3.0 |
| | 01.55-02.00 | 44.2 | 40.8 | 44.5 | 37.8 | 6.7 |
| | 02.00-02.05 | 45.4 | 40.6 | 46.7 | 37.2 | 9.5 |
| | 02.05-02.10 | 45.5 | 37.9 | 47.7 | 37.1 | 10.6 |
| | 02.10-02.15 | 45.8 | 41.8 | 46.6 | 38.9 | 7.7 |
| | 02.15-02.20 | 46.5 | 41.2 | 48.0 | 38.1 | 9.9 |
| | 02.20-02.25 | 46.4 | 43.9 | 45.8 | 39.3 | 6.5 |
| | 02.25-02.30 | 47.0 | 41.4 | 48.6 | 37.7 | 10.9 |
| 13. | 02.30-02.35 | 47.3 | 42.8 | 48.4 | 38.7 | 9.7 |
| | 02.35-02.40 | 46.1 | 41.7 | 47.1 | 38.0 | 9.1 |
| | 02.40-02.45 | 46.6 | 42.1 | 47.7 | 39.2 | 8.5 |
| | 02.45-02.50 | 43.8 | 44.5 | 43.8 | 41.7 | 2.1 |
| | 02.50-02.55 | 43.7 | 44.2 | 43.7 | 40.9 | 2.8 |
| | 02.55-03.00 | 43.5 | 43.6 | 43.5 | 41.3 | 2.2 |
| | 03.00-03.05 | 42.9 | 43.3 | 42.9 | 40.2 | 2.7 |
| | 03.05-03.10 | 43.0 | 42.1 | 38.7 | 39.8 | -1.1 |
| | 03.10-03.15 | 45.0 | 42.5 | 44.4 | 39.8 | 4.6 |
| | 03.15-03.20 | 46.5 | 43.4 | 46.6 | 40.4 | 6.2 |
| | 03.20-03.25 | 45.1 | 44.9 | 34.6 | 41.1 | -6.5 |
| | 03.25-03.30 | 48.9 | 44.7 | 49.8 | 41.2 | 8.6 |
| | 03.30-03.35 | 45.8 | 44.3 | 43.5 | 41.6 | 1.9 |
| | 03.35-03.40 | 47.8 | 42.2 | 49.4 | 40.7 | 8.7 |
| | 03.40-03.45 | 46.5 | 42.1 | 47.5 | 40.9 | 6.6 |
| | 03.45-03.50 | 52.4 | 42.4 | 54.9 | 40.6 | 14.3 |
| | 03.50-03.55 | 45.9 | 42.5 | 46.2 | 40.5 | 5.7 |
| | 03.55-04.00 | 48.0 | 42.5 | 49.6 | 40.7 | 8.9 |
| Standard ⁽¹⁾⁽²⁾ | | | | | | 10 |



TEST REPORT

(42/3-3)

| Item | Time | Result (dB(A)) | | | | |
|--|-------------|--|----------------------------------|-------------------------|--------------------------------------|------------------|
| | | ริมรั้วโครงการบริเวณใกล้เคียงชุมชนบ้านหนองเครือซูด | | | | |
| | | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Leq) | ระดับเสียงขณะไม่มีการรบกวน (Leq) | ระดับเสียงขณะมีการรบกวน | ระดับเสียงพื้นฐาน (L ₉₀) | ค่าระดับการรบกวน |
| | | 25-26/04/23 | 04-05/06/23 | - | 04-05/06/23 | - |
| 14. | 04.00-04.05 | 50.1 | 42.1 | 52.4 | 40.9 | 11.5 |
| | 04.05-04.10 | 55.1 | 43.2 | 57.8 | 41.6 | 16.2 |
| | 04.10-04.15 | 47.8 | 42.2 | 49.4 | 40.8 | 8.6 |
| | 04.15-04.20 | 47.7 | 52.5 | 47.7 | 41.1 | 6.6 |
| | 04.20-04.25 | 46.1 | 42.1 | 46.9 | 40.9 | 6.0 |
| | 04.25-04.30 | 44.7 | 38.9 | 46.4 | 35.3 | 11.1 |
| | 04.30-04.35 | 44.1 | 41.7 | 43.4 | 34.4 | 9.0 |
| | 04.35-04.40 | 44.6 | 42.1 | 44.0 | 34.1 | 9.9 |
| | 04.40-04.45 | 44.3 | 37.9 | 46.2 | 33.8 | 12.4 |
| | 04.45-04.50 | 44.4 | 37.4 | 46.4 | 33.2 | 13.2 |
| | 04.50-04.55 | 44.0 | 38.6 | 45.5 | 33.3 | 12.2 |
| | 04.55-05.00 | 43.0 | 43.8 | 43.0 | 39.5 | 3.5 |
| 15. | 05.00-05.05 | 43.2 | 48.8 | 43.2 | 39.2 | 4.0 |
| | 05.05-05.10 | 44.5 | 39.5 | 45.8 | 37.4 | 8.4 |
| | 05.10-05.15 | 44.5 | 40.4 | 45.4 | 37.2 | 8.2 |
| | 05.15-05.20 | 44.3 | 38.9 | 45.8 | 36.5 | 9.3 |
| | 05.20-05.25 | 41.8 | 39.6 | 40.8 | 36.5 | 4.3 |
| | 05.25-05.30 | 42.5 | 38.3 | 43.4 | 36.2 | 7.2 |
| | 05.30-05.35 | 44.0 | 40.2 | 44.7 | 36.4 | 8.3 |
| | 05.35-05.40 | 42.1 | 38.6 | 42.5 | 36.3 | 6.2 |
| | 05.40-05.45 | 44.2 | 38.6 | 45.8 | 35.7 | 10.1 |
| | 05.45-05.50 | 43.0 | 39.9 | 43.1 | 36.5 | 6.6 |
| | 05.50-05.55 | 43.7 | 38.1 | 45.3 | 35.3 | 10.0 |
| | 05.55-06.00 | 42.7 | 38.8 | 43.4 | 35.3 | 8.1 |
| 16. | 06.00-07.00 | 46.6 | 40.9 | 45.2 | 35.5 | 9.7 |
| 17. | 07.00-08.00 | 49.6 | 47.2 | 45.9 | 37.5 | 8.4 |
| 18. | 08.00-09.00 | 52.3 | 52.8 | 52.3 | 42.5 | 9.8 |
| 19. | 09.00-10.00 | 51.9 | 47.7 | 49.8 | 38.9 | 10.9 |
| 20. | 10.00-11.00 | 50.1 | 45.5 | 48.3 | 38.4 | 9.9 |
| 21. | 11.00-12.00 | 53.2 | 53.7 | 53.2 | 43.9 | 9.3 |
| 22. | 12.00-13.00 | 47.5 | 58.8 | 47.5 | 48.5 | -1.0 |
| 23. | 13.00-14.00 | 50.5 | 56.1 | 50.5 | 39.8 | 10.7 |
| 24. | 14.00-15.00 | 51.9 | 58.0 | 51.9 | 38.4 | 13.5 |
| Standard ⁽¹⁾ / ₍₂₎ | | | | | | 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)

Remark : ระดับเสียงขณะไม่มีการรบกวน และระดับเสียงพื้นฐาน ทำการตรวจวัด ระหว่างวันที่ 4-5 มิถุนายน 2566

Wannasiri S.
Wannasiri Suriyawong



Somchai F.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0258
Received Date: 31/01/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2301-WW0537 = brown turbid/high brown sediment/smell

Report Date : 08/02/23
Analysis Date : 30/01-06/02/23
Job No. : S660183/Jan
Sampling Date * : 30/01/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|---------------------------|-------|--|---|---------------|
| | | | | น้ำเสียความสกปรกสูง | |
| | | | | 2301-WW0537 | |
| | | | | บ่อปรับสภาพน้ำเสีย (บ่อปรับค่าพีเอช) | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 25.1 | 30/01/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.89 | 30/01/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 169 | 02/02/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 98 | 01-02/02/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 3 | 01-06/02/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 29 | 02/02/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 1.6 | 31/01/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 1.11 | 02/02/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 31/01/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 03/02/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | 0.0019 | 06/02/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 02/02/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 03/02/23 |
| 14 | SAR * | - | Calculate Method | 1.79 | 02/02/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

บ่อปรับสภาพน้ำเสีย (บ่อปรับค่าพีเอช) = 47Q 0661799 UTM 1780347

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
08/02/23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
08/02/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 7

TEST REPORT

Analysis No. : R23-0576
Received Date: 27/02/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2302-WW0630 = yellow turbid/moderate white sediment

Report Date : 09/03/23
Analysis Date : 25/02-07/03/23
Job No. : S660183/Feb
Sampling Date * : 25/02/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|---------------------------|-------|--|------------------------------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | |
| | | | | 2302-WW0630 | |
| | | | | บ่อปรับสภาพน้ำเสีย | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 27.9 | 25/02/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.23 | 25/02/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 182 | 01/03/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 80 | 01/03/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 1 | 02-07/03/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 11 | 27/02/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4 | 02/03/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 1.00 | 01/03/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 02/03/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 02/03/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | < 0.0005 | 03/03/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 01/03/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 03/03/23 |
| 14 | SAR * | - | Calculate Method | 1.60 | 02/03/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

บ่อปรับสภาพน้ำเสีย = 47Q 0661805 UTM 1780338

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
09/03/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
09/03/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0676
Received Date: 08/03/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2303-WW0198 = clear/slight white sediment

Report Date : 20/03/23
Analysis Date : 07-14/03/23
Job No. : S660183/Mar
Sampling Date * : 07/03/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|---------------------------|-------|--|------------------------------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | |
| | | | | 2303-WW0198 | |
| | | | | บ่อปรับสภาพน้ำเสีย | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 29.5 | 07/03/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.76 | 07/03/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 178 | 14/03/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 86 | 14/03/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 1 | 08-13/03/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 10 | 13/03/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4 | 10/03/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 0.36 | 13/03/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 08/03/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 10/03/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | 0.0007 | 09/03/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 10/03/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 10/03/23 |
| 14 | SAR * | - | Calculate Method | 1.69 | 10/03/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: บ่อปรับสภาพน้ำเสีย = 47Q 0661804 UTM 1780336
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
20/03/23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
20/03/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1230
Received Date: 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2304-WW0456 = clear/slight black sediment

Report Date : 12/05/23
Analysis Date : 24/04-03/05/23
Job No. : S660183/Apr
Sampling Date * : 24/04/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|---------------------------|-------|--|------------------------------|----------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | |
| | | | | 2304-WW0456 | |
| | | | | บ่อปรับสภาพน้ำเสีย | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 30.8 | 24/04/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.39 | 24/04/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 232 | 26/04/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 71 | 27/04/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | < 1 | 27/04-02/05/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 13 | 26/04/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 1.1 | 27/04/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 0.23 | 27/04/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 26/04/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 02/05/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | 0.0025 | 03/05/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 27/04/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 27/04/23 |
| 14 | SAR * | - | Calculate Method | 1.28 | 28/04/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: บ่อปรับสภาพน้ำเสีย = 47Q 0661804 UTM 1780336
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
12.05.23



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
12.05.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1498
Received Date: 22/05/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2305-WW0509 = light yellow/slight white sediment

Report Date : 31/05/23
Analysis Date : 19-29/05/23
Job No. : S660183/May
Sampling Date * : 19/05/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|---------------------------|-------|--|------------------------------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | |
| | | | | 2305-WW0509 | |
| | | | | บ่อปรับสภาพน้ำเสีย | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 34.8 | 19/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.52 | 19/05/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 309 | 23/05/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 150 | 24/05/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 1 | 24-29/05/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 20 | 23/05/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8 | 24/05/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 0.90 | 24/05/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 23/05/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 25/05/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | < 0.0005 | 23/05/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 23/05/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 23/05/23 |
| 14 | SAR * | - | Calculate Method | 1.65 | 24/05/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: บ่อปรับสภาพน้ำเสีย = 47Q 0661804 UTM 1780336
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
31/05/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
31/05/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1646
Received Date: 06/06/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2306-WW0094 = clear/slight white sediment

Report Date : 15/06/23
Analysis Date : 04-13/06/23
Job No. : S660183/June
Sampling Date * : 04/06/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|---------------------------|-------|--|------------------------------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | |
| | | | | 2306-WW0094 | |
| | | | | บ่อปรับสภาพน้ำเสีย | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 35.9 | 04/06/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.46 | 04/06/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 317 | 08/06/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 165 | 08/06/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 1 | 07-12/06/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 12 | 08/06/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6 | 08/06/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 0.71 | 08/06/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 08/06/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 07/06/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | < 0.0005 | 09/06/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 13/06/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 07/06/23 |
| 14 | SAR * | - | Calculate Method | 1.42 | 07/06/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: บ่อปรับสภาพน้ำเสีย = 47Q 0661804 UTM 1780336
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachundaeng
Chief of Laboratory

15.06.23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager

15.06.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0258
Received Date : 31/01/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2301-WW0538 = white turbid/slight black sediment

Report Date : 02/02/23
Analysis Date : 30/01-06/02/23
Job No. : S660183/Jan
Sampling Date * : 30/01/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|----------------|------|--|--------------------------------------|----------|---------------|
| | | | | น้ำเสียความสกปรกสูง | | |
| | | | | 2301-WW0538 | | |
| | | | | บ่อกักน้ำทิ้ง (บ่อดรงคุณภาพน้ำ 1) | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 24.6 | 40 | 30/01/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.23 | 5.5-9.0 | 30/01/23 |
| 3 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 207 | 3,000 | 01-02/02/23 |
| 4 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 2 | 20 | 01-06/02/23 |
| 5 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 21 | 120 | 02/02/23 |
| 6 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8 | 5 | 31/01/23 |
| 7 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 1.67 | 100 | 02/02/23 |
| 8 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 03/02/23 |
| 9 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | < 0.0005 | 0.25 | 06/02/23 |
| 10 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 02/02/23 |
| 11 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 03/02/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: บ่อกักน้ำทิ้ง (บ่อดรงคุณภาพน้ำ 1) = 47Q 0661765 UTM 1780316
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
Standard : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

7-236-ท-7201
02, 02, 23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager

7-236-ท-6047
02, 02, 23

- PRIVATE LABORATORY REGISTERED NO. 7-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0258

Received Date: 31/01/23

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด

โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150

Contact : -

Sample Conditions : 2301-WW0538 = white turbid/slight black sediment

Report Date : 08/02/23

Analysis Date : 31/01-02/02/23

Job No. : S660183/Jan

Sampling Date : 30/01/23

Sampling By : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|-------------------------|-------|--|---------------------------------------|---------------|
| | | | | น้ำเสียความสกปรกสูง | |
| | | | | 2301-WW0538 | |
| | | | | บ่อพักน้ำทิ้ง (บ่อตรวจคุณภาพน้ำ 1) | |
| 1 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 370 | 02/02/23 |
| 2 | H ₂ S | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ³ -D) | < 0.01 | 31/01/23 |
| 3 | SAR | - | Calculate Method | 1.66 | 02/02/23 |

Remarks : บ่อพักน้ำทิ้ง (บ่อตรวจคุณภาพน้ำ 1) = 47Q 0661765 UTM 1780316

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

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

08/02/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

08/02/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0258
Received Date: 31/01/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2301-WW0538 = white turbid/slight black sediment

Report Date : 08/02/23
Analysis Date : 30/01-06/02/23
Job No. : S660183/Jan
Sampling Date * : 30/01/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|---------------------------|-------|--|---------------------------------------|----------|---------|---------------|
| | | | | น้ำเสียความสกปรกสูง | | | |
| | | | | 2301-WW0538 | | | |
| | | | | บ่อพักน้ำทิ้ง (บ่อตรวจคุณภาพน้ำ 1) | (1) | (2) | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 24.6 | - | 40 | 30/01/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.23 | - | 5.5-9.0 | 30/01/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 370 | - | - | 02/02/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 207 | 1,300 | 3,000 | 01-02/02/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 2 | - | 20 | 01-06/02/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 21 | - | 120 | 02/02/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8 | - | 5 | 31/01/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 1.67 | - | 100 | 02/02/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | - | - | 31/01/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | - | 0.005 | 03/02/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | < 0.0005 | - | 0.25 | 06/02/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | - | 0.03 | 02/02/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | - | 0.2 | 03/02/23 |
| 14 | SAR * | - | Calculate Method | 1.66 | - | - | 02/02/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: บ่อพักน้ำทิ้ง (บ่อตรวจคุณภาพน้ำ 1) = 47Q 0661765 UTM 1780316
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
Standard : (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)
(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
08/02/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
08/02/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0576
Received Date: 27/02/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2302-WW0631 = white turbid/moderate white sediment

Report Date : 09/03/23
Analysis Date : 25/02-07/03/23
Job No. : S660183/Feb
Sampling Date * : 25/02/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|----------------|------|--|------------------------------|----------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | | |
| | | | | 2302-WW0631 | | |
| | | | | บ่อตรวจคุณภาพน้ำ 1 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 28.3 | 40 | 25/02/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.46 | 5.5-9.0 | 25/02/23 |
| 3 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 181 | 3,000 | 01/03/23 |
| 4 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | < 1 | 20 | 02-07/03/23 |
| 5 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 10 | 120 | 27/02/23 |
| 6 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4 | 5 | 02/03/23 |
| 7 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 0.84 | 100 | 01/03/23 |
| 8 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 02/03/23 |
| 9 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | < 0.0005 | 0.25 | 03/03/23 |
| 10 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 01/03/23 |
| 11 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 03/03/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: บ่อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
Standard : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
ว-236-ก-7201
09/03/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
ว-236-ก-6047
09/03/23

- PRIVATE LABORATORY REGISTERED NO. ว-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0576
Received Date: 27/02/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2302-WW0631 = white turbid/moderate white sediment

Report Date : 09/03/23
Analysis Date : 01-02/03/23
Job No. : S660183/Feb
Sampling Date : 25/02/23
Sampling By : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|-------------------------|-------|--|------------------------------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | |
| | | | | 2302-WW0631 | |
| | | | | บ่อตรวจคุณภาพน้ำ 1 | |
| 1 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 354 | 01/03/23 |
| 2 | H ₂ S | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 02/03/23 |
| 3 | SAR | - | Calculate Method | 1.91 | 02/03/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
09/03/23



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
09/03/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0576
Received Date: 27/02/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพานหิน จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2302-WW0631 = white turbid/moderate white sediment

Report Date : 09/03/23
Analysis Date : 25/02-07/03/23
Job No. : S660183/Feb
Sampling Date * : 25/02/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|---------------------------|-------|--|------------------------------|----------|---------|----------------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | | | |
| | | | | 2302-WW0631 | (1) | (2) | |
| | | | | บ่อตรวจคุณภาพน้ำ 1 | (1) | (2) | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 28.3 | - | 40 | 25/02/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.46 | - | 5.5-9.0 | 25/02/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 354 | - | - | 01/03/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 181 | 1,300 | 3,000 | 01/03/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | < 1 | - | 20 | 02-07/03/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 10 | - | 120 | 27/02/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.4 | - | 5 | 02/03/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 0.84 | - | 100 | 01/03/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | - | - | 02/03/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | - | 0.005 | 02/03/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | < 0.0005 | - | 0.25 | 03/03/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | - | 0.03 | 01/03/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | - | 0.2 | 03/03/23 |
| 14 | SAR * | - | Calculate Method | 1.91 | - | - | 02/03/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

1. บ่อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316

Method 1. SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)

(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager



TEST REPORT

Analysis No. : R23-0676

Received Date: 08/03/23

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150

Contact : -

Sample Conditions : 2303-WW0199 = white turbid/slight brown sediment

Report Date : 20/03/23

Analysis Date : 07-14/03/23

Job No. : S660183/Mar

Sampling Date * : 07/03/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|----------------|------|--|------------------------------|----------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | | |
| | | | | 2303-WW0199 | | |
| | | | | บ่อตรวจคุณภาพน้ำ 1 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 29.6 | 40 | 07/03/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.24 | 5.5-9.0 | 07/03/23 |
| 3 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 88 | 3,000 | 14/03/23 |
| 4 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 3 | 20 | 08-13/03/23 |
| 5 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 23 | 120 | 13/03/23 |
| 6 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6 | 5 | 10/03/23 |
| 7 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 0.60 | 100 | 13/03/23 |
| 8 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 10/03/23 |
| 9 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | 0.0006 | 0.25 | 09/03/23 |
| 10 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 10/03/23 |
| 11 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 10/03/23 |

Remarks : "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

บ่อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316

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

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

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

2-236-ก-7201

20.03.23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

2-236-ก-6047

20.03.23

- PRIVATE LABORATORY REGISTERED NO. 2-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0676

Received Date: 08/03/23

Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150

Contact : -

Sample Conditions : 2303-WW0199 = white turbid/slight brown sediment

Report Date : 20/03/23

Analysis Date : 08-14/03/23

Job No. : S660183/Mar

Sampling Date : 07/03/23

Sampling By : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|-------------------------|-------|---|------------------------------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | |
| | | | | 2303-WW0199 | |
| | | | | บ่อตรวจคุณภาพน้ำ 1 | |
| 1 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 338 | 14/03/23 |
| 2 | H ₂ S | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ² -D) | < 0.01 | 08/03/23 |
| 3 | SAR | - | Calculate Method | 1.32 | 10/03/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
20 / 03 / 23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
20 / 03 / 23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0676

Received Date: 08/03/23

Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150

Contact : -

Sample Conditions : 2303-WW0199 = white turbid/slight brown sediment

Report Date : 20/03/23

Analysis Date : 07-14/03/23

Job No. : S660183/Mar

Sampling Date * : 07/03/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|---------------------------|-------|--|------------------------------|----------|---------|------------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | | | |
| | | | | 2303-WW0199 | (1) | (2) | |
| | | | | บ่อตรวจคุณภาพน้ำ 1 | (1) | (2) | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 29.6 | - | 40 | 07/03/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.24 | - | 5.5-9.0 | 07/03/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 338 | - | - | 14/03/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 88 | 1,300 | 3,000 | 14/03/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 3 | - | 20 | 08-13/03/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 23 | - | 120 | 13/03/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6 | - | 5 | 10/03/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 0.60 | - | 100 | 13/03/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | - | - | 08/03/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | - | 0.005 | 10/03/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | 0.0006 | - | 0.25 | 09/03/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | - | 0.03 | 10/03/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | - | 0.2 | 10/03/23 |
| 14 | SAR * | - | Calculate Method | 1.32 | - | - | 10/03/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: บ่อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316

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

Standard (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)

(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

20/03/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager

20/03/23



TEST REPORT

Analysis No. : R23-1230
Received Date: 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2304-WW0457 = yellow turbid/slight black sediment

Report Date : 12/05/23
Analysis Date : 24/04-03/05/23
Job No. : S660183/Apr
Sampling Date * : 24/04/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|----------------|------|--|------------------------------|----------|----------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | | |
| | | | | 2304-WW0457 | | |
| | | | | บ่อตรวจคุณภาพน้ำ 1 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 32.0 | 40 | 24/04/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.40 | 5.5-9.0 | 24/04/23 |
| 3 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 98 | 3,000 | 27/04/23 |
| 4 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | < 1 | 20 | 27/04-02/05/23 |
| 5 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 13 | 120 | 26/04/23 |
| 6 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6 | 5 | 27/04/23 |
| 7 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 0.68 | 100 | 27/04/23 |
| 8 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 02/05/23 |
| 9 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | 0.0010 | 0.25 | 03/05/23 |
| 10 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 27/04/23 |
| 11 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 27/04/23 |

Remarks : "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

บ่อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316

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

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
7-236-ก-7201
12/05/23



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
7-236-ก-6047
12/05/23

- PRIVATE LABORATORY REGISTERED NO. 7-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1230
Received Date: 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2304-WW0457 = yellow turbid/slight black sediment

Report Date : 12/05/23
Analysis Date : 26-28/04/23
Job No. : S660183/Apr
Sampling Date : 24/04/23
Sampling By : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|-------------------------|-------|---|------------------------------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | |
| | | | | 2304-WW0457 | |
| | | | | บ่อตรวจคุณภาพน้ำ 1 | |
| 1 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 243 | 26/04/23 |
| 2 | H ₂ S | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ² -D) | < 0.01 | 26/04/23 |
| 3 | SAR | - | Calculate Method | 1.38 | 28/04/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
12.05.23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
12.05.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1230
Received Date: 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพานหิน จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2304-WW0457 = yellow turbid/slight black sediment

Report Date : 12/05/23
Analysis Date : 24/04-03/05/23
Job No. : S660183/Apr
Sampling Date * : 24/04/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|---------------------------|-------|--|------------------------------|----------|---------|----------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | | | |
| | | | | 2304-WW0457 | | | |
| | | | | ข้อตรวจคุณภาพน้ำ 1 | (1) | (2) | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 32.0 | - | 40 | 24/04/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.40 | - | 5.5-9.0 | 24/04/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 243 | - | - | 26/04/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 98 | 1,300 | 3,000 | 27/04/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | < 1 | - | 20 | 27/04-02/05/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 13 | - | 120 | 26/04/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6 | - | 5 | 27/04/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 0.68 | - | 100 | 27/04/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | - | - | 26/04/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | - | 0.005 | 02/05/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | 0.0010 | - | 0.25 | 03/05/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | - | 0.03 | 27/04/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | - | 0.2 | 27/04/23 |
| 14 | SAR * | - | Calculate Method | 1.38 | - | - | 28/04/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

ข้อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316

Method SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)
(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
12.05.23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
12.05.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1498/DIW
Received Date: 22/05/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2305-WW0510 = light yellow/slight white sediment

Report Date : 31/05/23
Analysis Date : 19-29/05/23
Job No. : S660183/May
Sampling Date * : 19/05/23
Sampling By * : Mr. Pramual Moonsarn
Registration Number : ๖-236-๖-6064
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|----------------|------|--|------------------------------|----------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | | |
| | | | | 2305-WW0510 | | |
| | | | | บ่อตรวจคุณภาพน้ำ 1 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 23.6 | 40 | 19/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.72 | 5.5-9.0 | 19/05/23 |
| 3 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 134 | 3,000 | 24/05/23 |
| 4 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 2 | 20 | 24-29/05/23 |
| 5 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 30 | 120 | 23/05/23 |
| 6 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6 | 5 | 24/05/23 |
| 7 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 1.36 | 100 | 24/05/23 |
| 8 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 25/05/23 |
| 9 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | 0.0010 | 0.25 | 23/05/23 |
| 10 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 23/05/23 |
| 11 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 23/05/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: บ่อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
Standard : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
๖-236-๖-7201
31/05/23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
๖-236-๖-6047
31/05/23

- PRIVATE LABORATORY REGISTERED NO. ๖-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



ORIGINAL
ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 2 of 3

TEST REPORT

Analysis No. : R23-1498
Received Date: 22/05/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2305-WW0510 = light yellow/slight white sediment

Report Date : 31/05/23
Analysis Date : 19-29/05/23
Job No. : S660183/May
Sampling Date * : 19/05/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|---------------------------|-------|--|------------------------------|----------|---------|------------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | | | |
| | | | | 2305-WW0510 | | | |
| | | | | บ่อตรวจคุณภาพน้ำ 1 | (1) | (2) | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 23.6 | - | 40 | 19/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.72 | - | 5.5-9.0 | 19/05/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 259 | - | - | 23/05/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 134 | 1,300 | 3,000 | 24/05/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 2 | - | 20 | 24-29/05/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 30 | - | 120 | 23/05/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6 | - | 5 | 24/05/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 1.36 | - | 100 | 24/05/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | - | - | 23/05/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | - | 0.005 | 25/05/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | 0.0010 | - | 0.25 | 23/05/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | - | 0.03 | 23/05/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | - | 0.2 | 23/05/23 |
| 14 | SAR * | - | Calculate Method | 1.68 | - | - | 24/05/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

บ่อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316

Method SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)
(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

31.05.23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

31.05.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1646/DIW
Received Date: 06/06/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2306-WW0095 = yellow turbid/moderate white sediment

Report Date : 15/06/23
Analysis Date : 04-13/06/23
Job No. : S660183/June
Sampling Date * : 04/06/23
Sampling By * : Mr. Attapon Wongsawad
Registration Number : จ-236-จ-6069
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|----------------|------|--|------------------------------|----------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | | |
| | | | | 2306-WW0095 | | |
| | | | | บ่อตรวจคุณภาพน้ำ 1 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 33.7 | 40 | 04/06/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.93 | 5.5-9.0 | 04/06/23 |
| 3 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 117 | 3,000 | 08/06/23 |
| 4 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 2 | 20 | 07-12/06/23 |
| 5 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 22 | 120 | 08/06/23 |
| 6 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8 | 5 | 08/06/23 |
| 7 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 1.18 | 100 | 08/06/23 |
| 8 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 07/06/23 |
| 9 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | 0.0005 | 0.25 | 09/06/23 |
| 10 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 13/06/23 |
| 11 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 07/06/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: บ่อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
Standard : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachuendaeng
Chief of Laboratory
จ-236-ก-7201
15/06/23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
จ-236-ก-6047
15/06/23

- PRIVATE LABORATORY REGISTERED NO. จ-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1646
Received Date: 06/06/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2306-WW0095 = yellow turbid/moderate white sediment

Report Date : 15/06/23
Analysis Date : 04-13/06/23
Job No. : S660183/June
Sampling Date * : 04/06/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|---------------------------|-------|--|------------------------------|----------|---------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกสูง | | | |
| | | | | 2306-WW0095 | | | |
| | | | | ข้อตรวจคุณภาพน้ำ 1 | (1) | (2) | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 33.7 | - | 40 | 04/06/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.93 | - | 5.5-9.0 | 04/06/23 |
| 3 | Electrical Conductivity * | µs/cm | Laboratory Method (SM 2510 B) | 250 | - | - | 08/06/23 |
| 4 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 117 | 1,300 | 3,000 | 08/06/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 2 | - | 20 | 07-12/06/23 |
| 6 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 22 | - | 120 | 08/06/23 |
| 7 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8 | - | 5 | 08/06/23 |
| 8 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 1.18 | - | 100 | 08/06/23 |
| 9 | H ₂ S * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | - | - | 08/06/23 |
| 10 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | - | 0.005 | 07/06/23 |
| 11 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114C) | 0.0005 | - | 0.25 | 09/06/23 |
| 12 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | - | 0.03 | 13/06/23 |
| 13 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | - | 0.2 | 07/06/23 |
| 14 | SAR * | - | Calculate Method | 1.39 | - | - | 07/06/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: ข้อตรวจคุณภาพน้ำ 1 = 47Q 0661765 UTM 1780316

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

Standard (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)
(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

15.06.23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

15.06.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0258

Received Date: 31/01/23

Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150

Contact : -

Sample Conditions : 2301-WW0539 = white turbid/slight black sediment

Report Date : 08/02/23

Analysis Date : 30/01-02/02/23

Job No. : S660183/Jan

Sampling Date : 30/01/23

Sampling By : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|-------------|------|--|-------------------------------------|----------|---------------|
| | | | | น้ำเสียความสกปรกต่ำ | | |
| | | | | 2301-WW0539 | | |
| | | | | บ่อพักน้ำทิ้ง บ่อตรวจคุณภาพน้ำ 2 | | |
| 1 | Temperature | °C | Laboratory and Field, Methods (SM 2550B) | 25.0 | 40 | 30/01/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 8.00 | 5.5-9.0 | 30/01/23 |
| 3 | TDS | mg/L | Dried at 180 °C (SM 2540 C) | 87 | 3,000 | 01-02/02/23 |

Remarks : บ่อพักน้ำทิ้ง (บ่อตรวจคุณภาพน้ำ 2) = 47Q 0661795 UTM 1780349

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

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

๖-236-๓-7201

๑๘/๐๒/๒๓



Approved by

Mrs. Porntip Pethishee
Laboratory Manager

๖-236-๓-6047

๑๘/๐๒/๒๓

- PRIVATE LABORATORY REGISTERED NO. ๖-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0258

Received Date: 31/01/23

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150

Contact : -

Sample Conditions : 2301-WW0539 = white turbid/slight black sediment

Report Date : 08/02/23

Analysis Date : 02/02/23

Job No. : S660183/Jan

Sampling Date : 30/01/23

Sampling By : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|-------------------------|-------|-------------------------------|---------------------------------------|---------------|
| | | | | น้ำเสียความสกปรกต่ำ | |
| | | | | 2301-WW0539 | |
| | | | | บ่อพักน้ำทิ้ง (บ่อตรวจคุณภาพน้ำ 2) | |
| 1 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 159 | 02/02/23 |
| 2 | SAR | - | Calculate Method | 1.68 | 02/02/23 |

Remarks : บ่อพักน้ำทิ้ง (บ่อตรวจคุณภาพน้ำ 2) = 47Q 0661795 UTM 1780349

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

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

08/02/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

02/02/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0258
Received Date: 31/01/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2301-WW0539 = white turbid/slight black sediment

Report Date : 08/02/23
Analysis Date : 30/01-02/02/23
Job No. : S660183/Jan
Sampling Date : 30/01/23
Sampling By : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|-------------------------|-------|--|---------------------------------------|----------|---------|---------------|
| | | | | น้ำเสียความสกปรกต่ำ | | | |
| | | | | 2301-WW0539 | | | |
| | | | | บ่อพักน้ำทิ้ง (บ่อตรวจคุณภาพน้ำ 2) | (1) | (2) | |
| 1 | Temperature | °C | Laboratory and Field, Methods (SM 2550B) | 25.0 | - | 40 | 30/01/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 8.00 | - | 5.5-9.0 | 30/01/23 |
| 3 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 159 | - | - | 02/02/23 |
| 4 | TDS | mg/L | Dried at 180 °C (SM 2540 C) | 87 | 1,300 | 3,000 | 01-02/02/23 |
| 5 | SAR | - | Calculate Method | 1.68 | - | - | 02/02/23 |

Remarks : บ่อพักน้ำทิ้ง (บ่อตรวจคุณภาพน้ำ 2) = 47Q 0661795 UTM 1780349

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

Standard (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)
(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
08, 02, 23



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
08, 02, 23

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0576
Received Date: 27/02/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -

Report Date : 09/03/23
Analysis Date : 25/02-01/03/23
Job No. : S660183/Feb
Sampling Date : 25/02/23
Sampling By : TET
Type of Sample : Wastewater

Sample Conditions : 2302-WW0632 = yellow turbid/moderate white sediment

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|-------------|------|--|------------------------------|----------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | | |
| | | | | 2302-WW0632 | | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | | |
| 1 | Temperature | °C | Laboratory and Field, Methods (SM 2550B) | 27.7 | 40 | 25/02/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 8.01 | 5.5-9.0 | 25/02/23 |
| 3 | TDS | mg/L | Dried at 180 °C (SM 2540 C) | 85 | 3,000 | 01/03/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349

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

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

ว-236-ท-7201
09, 03, 23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager

ว-236-ท-6047
09, 03, 23

- PRIVATE LABORATORY REGISTERED NO. ว-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0576
Received Date: 27/02/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2302-WW0632 = yellow turbid/moderate white sediment

Report Date : 09/03/23
Analysis Date : 01-02/03/23
Job No. : S660183/Feb
Sampling Date : 25/02/23
Sampling By : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|-------------------------|-------|-------------------------------|------------------------------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | |
| | | | | 2302-WW0632 | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | |
| 1 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 165 | 01/03/23 |
| 2 | SAR | - | Calculate Method | 2.21 | 02/03/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
09.03.23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
09.03.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0576
Received Date: 27/02/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2302-WW0632 = yellow turbid/moderate white sediment

Report Date : 09/03/23
Analysis Date : 25/02-02/03/23
Job No. : S660183/Feb
Sampling Date : 25/02/23
Sampling By : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|-------------------------|-------|--|------------------------------|----------|---------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | | | |
| | | | | 2302-WW0632 | | | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | (1) | (2) | |
| 1 | Temperature | °C | Laboratory and Field, Methods (SM 2550B) | 27.7 | - | 40 | 25/02/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 8.01 | - | 5.5-9.0 | 25/02/23 |
| 3 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 165 | - | - | 01/03/23 |
| 4 | TDS | mg/L | Dried at 180 °C (SM 2540 C) | 85 | 1,300 | 3,000 | 01/03/23 |
| 5 | SAR | - | Calculate Method | 2.21 | - | - | 02/03/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
Standard (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)
(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
09/03/23



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
09/03/23

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0676

Received Date: 08/03/23

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด

โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150

Contact : -

Sample Conditions : 2303-WW0200 = clear/slight white sediment

Report Date : 20/03/23

Analysis Date : 07-14/03/23

Job No. : S660183/Mar

Sampling Date : 07/03/23

Sampling By : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|-------------|------|--|------------------------------|----------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | | |
| | | | | 2303-WW0200 | | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | | |
| 1 | Temperature | °C | Laboratory and Field, Methods (SM 2550B) | 30.0 | 40 | 07/03/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 8.31 | 5.5-9.0 | 07/03/23 |
| 3 | TDS | mg/L | Dried at 180 °C (SM 2540 C) | 94 | 3,000 | 14/03/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349

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

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

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

ว-236-ท-7201

๒๐/๐๓/๒๓

Approved by

Mrs. Porntip Pethshee

Laboratory Manager

ว-236-ท-6047

๒๐/๐๓/๒๓



- PRIVATE LABORATORY REGISTERED NO. ว-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0676
Received Date: 08/03/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2303-WW0200 = clear/slight white sediment

Report Date : 20/03/23
Analysis Date : 10-14/03/23
Job No. : S660183/Mar
Sampling Date : 07/03/23
Sampling By : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|-------------------------|-------|-------------------------------|------------------------------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | |
| | | | | 2303-WW0200 | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | |
| 1 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 208 | 14/03/23 |
| 2 | SAR | - | Calculate Method | 1.90 | 10/03/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
20/03/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
20/03/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-0676
Received Date: 08/03/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2303-WW0200 = clear/slight white sediment

Report Date : 20/03/23
Analysis Date : 07-14/03/23
Job No. : S660183/Mar
Sampling Date : 07/03/23
Sampling By : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|-------------------------|-------|--|------------------------------|----------|---------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | | | |
| | | | | 2303-WW0200 | | | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | (1) | (2) | |
| 1 | Temperature | °C | Laboratory and Field, Methods (SM 2550B) | 30.0 | - | 40 | 07/03/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 8.31 | - | 5.5-9.0 | 07/03/23 |
| 3 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 208 | - | - | 14/03/23 |
| 4 | TDS | mg/L | Dried at 180 °C (SM 2540 C) | 94 | 1,300 | 3,000 | 14/03/23 |
| 5 | SAR | - | Calculate Method | 1.90 | - | - | 10/03/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349

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

Standard : (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)
(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
20/03/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
20/03/23

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1230
Received Date : 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -

Report Date : 12/05/23
Analysis Date : 24-27/04/23
Job No. : S660183/Apr
Sampling Date : 24/04/23
Sampling By : TET
Type of Sample : Wastewater

Sample Conditions : 2304-WW0458 = cream turbid/high black and cream sediment

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|-------------|------|--|------------------------------|----------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | | |
| | | | | 2304-WW0458 | | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | | |
| 1 | Temperature | °C | Laboratory and Field, Methods (SM 2550B) | 30.9 | 40 | 24/04/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 7.38 | 5.5-9.0 | 24/04/23 |
| 3 | TDS | mg/L | Dried at 180 °C (SM 2540 C) | 85 | 3,000 | 27/04/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349

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

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

ว-236-ก-7201
12.05.23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager

ว-236-ก-6047
12.05.23

- PRIVATE LABORATORY REGISTERED NO. ว-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1230

Received Date: 26/04/23

Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150

Contact : -

Sample Conditions : 2304-WW0458 = cream turbid/high black and cream sediment

Report Date : 12/05/23

Analysis Date : 26-28/04/23

Job No. : S660183/Apr

Sampling Date : 24/04/23

Sampling By : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Analysis Date |
|------|-------------------------|-------|-------------------------------|------------------------------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | |
| | | | | 2304-WW0458 | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | |
| 1 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 233 | 26/04/23 |
| 2 | SAR | - | Calculate Method | 0.97 | 28/04/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349

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

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
12.05.23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
12.05.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1230
Received Date: 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -

Report Date : 12/05/23
Analysis Date : 24-28/04/23
Job No. : S660183/Apr
Sampling Date : 24/04/23
Sampling By : TET
Type of Sample : Wastewater

Sample Conditions : 2304-WW0458 = cream turbid/high black and cream sediment

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|-------------------------|-------|--|------------------------------|----------|---------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | | | |
| | | | | 2304-WW0458 | | | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | (1) | (2) | |
| 1 | Temperature | °C | Laboratory and Field, Methods (SM 2550B) | 30.9 | - | 40 | 24/04/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 7.38 | - | 5.5-9.0 | 24/04/23 |
| 3 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 233 | - | - | 26/04/23 |
| 4 | TDS | mg/L | Dried at 180 °C (SM 2540 C) | 85 | 1,300 | 3,000 | 27/04/23 |
| 5 | SAR | - | Calculate Method | 0.97 | - | - | 28/04/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349

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

Standard (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)

(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

12.05.23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

12.05.23

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1498/DIW
Received Date: 22/05/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพวน จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2305-WW0511 = yellow turbid/high yellow sediment

Report Date : 31/05/23
Analysis Date : 19-24/05/23
Job No. : S660183/May
Sampling Date : 19/05/23
Sampling By : Mr. Pramual Moonsarn
Registration Number : จ-236-จ-6064
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|-------------|----------------|--|------------------------------|----------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | | |
| | | | | 2305-WW0511 | | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | | |
| 1 | Temperature | ^o C | Laboratory and Field, Methods (SM 2550B) | 34.2 | 40 | 19/05/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 8.46 | 5.5-9.0 | 19/05/23 |
| 3 | TDS | mg/L | Dried at 180 ^o C (SM 2540 C) | 138 | 3,000 | 24/05/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
Standard : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

จ-236-ท-7201
31/05/23



Approved by

Mrs. Porntip Pethshee
Laboratory Manager

จ-236-ท-6047
31/05/23

..... END OF REPORT

- PRIVATE LABORATORY REGISTERED NO. จ-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1498
Received Date: 22/05/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2305-WW0511 = yellow turbid/high yellow sediment

Report Date : 31/05/23
Analysis Date : 19-24/05/23
Job No. : S660183/May
Sampling Date : 19/05/23
Sampling By : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|-------------------------|-------|--|------------------------------|----------|---------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | | | |
| | | | | 2305-WW0511 | | | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | (1) | (2) | |
| 1 | Temperature | °C | Laboratory and Field, Methods (SM 2550B) | 34.2 | - | 40 | 19/05/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 8.46 | - | 5.5-9.0 | 19/05/23 |
| 3 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 279 | - | - | 23/05/23 |
| 4 | TDS | mg/L | Dried at 180 °C (SM 2540 C) | 138 | 1,300 | 3,000 | 24/05/23 |
| 5 | SAR | - | Calculate Method | 0.94 | - | - | 24/05/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349

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

Standard (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)
(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

31.05.23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

31.05.23

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1646/DIW
Received Date: 06/06/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2306-WW0096 = brown turbid/high white sediment

Report Date : 15/06/23
Analysis Date : 04-08/06/23
Job No. : S660183/June
Sampling Date : 04/06/23
Sampling By : Mr. Attapon Wongsawad
Registration Number : ว-236-จ-6069
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | Analysis Date |
|------|-------------|------|--|------------------------------|----------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | | |
| | | | | 2306-WW0096 | | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | | |
| 1 | Temperature | °C | Laboratory and Field, Methods (SM 2550B) | 35.5 | 40 | 04/06/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 8.71 | 5.5-9.0 | 04/06/23 |
| 3 | TDS | mg/L | Dried at 180 °C (SM 2540 C) | 108 | 3,000 | 08/06/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
Standard : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
ว-236-ก-7201
15/06/23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
ว-236-ก-6047
15/06/23

..... END OF REPORT

- PRIVATE LABORATORY REGISTERED NO. ว-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1646
Received Date: 06/06/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงเจริญ จังหวัดพิจิตร 66150
Contact : -
Sample Conditions : 2306-WW0096 = brown turbid/high white sediment

Report Date : 15/06/23
Analysis Date : 04-08/06/23
Job No. : S660183/June
Sampling Date : 04/06/23
Sampling By : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|-------------------------|-------|--|------------------------------|----------|---------|---------------|
| | | | | ระบบบำบัดน้ำเสียความสกปรกต่ำ | | | |
| | | | | 2306-WW0096 | | | |
| | | | | บ่อตรวจคุณภาพน้ำ 2 | (1) | (2) | |
| 1 | Temperature | °C | Laboratory and Field, Methods (SM 2550B) | 35.5 | - | 40 | 04/06/23 |
| 2 | pH | - | Electrometric Method (SM 4500 B) | 8.71 | - | 5.5-9.0 | 04/06/23 |
| 3 | Electrical Conductivity | µs/cm | Laboratory Method (SM 2510 B) | 207 | - | - | 08/06/23 |
| 4 | TDS | mg/L | Dried at 180 °C (SM 2540 C) | 108 | 1,300 | 3,000 | 08/06/23 |
| 5 | SAR | - | Calculate Method | 1.10 | - | - | 07/06/23 |

Remarks : บ่อตรวจคุณภาพน้ำ 2 = 47Q 0661795 UTM 1780349
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
Standard (1) Notification of the Royal Irrigation Department No. 18 (2018) (B.E. 2561)
(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
15.06.23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
15.06.23

END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1231/2023/1-16

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 8, 2023

Sampling Date : April 21, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150

Type of Sample : Sound Level

Job No. : S660183/Apr/Occ

| Item | Sampling Time | Result (dB(A)) | | |
|----------|---------------|-------------------------|------|-------|
| | | อาคารเครื่องกำเนิดไฟฟ้า | | |
| | | 21/04/23 | | |
| | | Leq 1 hr. | Lmax | Peak |
| 1. | 09:00-10:00 | 84.6 | 91.5 | 120.6 |
| 2. | 10:00-11:00 | 84.5 | 90.0 | 120.5 |
| 3. | 11:00-12:00 | 84.5 | 89.7 | 120.3 |
| 4. | 12:00-13:00 | 84.5 | 89.8 | 120.5 |
| 5. | 13:00-14:00 | 84.3 | 91.6 | 119.9 |
| 6. | 14:00-15:00 | 84.7 | 90.0 | 120.9 |
| 7. | 15:00-16:00 | 84.5 | 91.8 | 120.2 |
| 8. | 16:00-17:00 | 84.4 | 89.6 | 119.9 |
| Leq 8 hr | | 84.5 | - | - |
| Lmax | | - | 91.8 | - |
| Lpeak | | - | - | 120.9 |
| Standard | | 90 | 140 | - |

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

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1231/2023/2-16

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 8, 2023

Sampling Date : April 21-22, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150

Type of Sample : Noise Dose

Job No. : S660183/Apr/Occ

| Item | Description | Unit | Result | | Standard |
|------|---------------|-------|-----------------|----------------------|--------------------|
| | | | พนักงานฝ่ายผลิต | พนักงานฝ่ายซ่อมบำรุง | |
| 1. | Sampling Date | - | 21/04/23 | 22/04/23 | - |
| 2. | TWA | dB(A) | 75.0 | 71.3 | 85 ⁽¹⁾ |
| 3. | Lmax | dB(A) | 100.9 | 100.7 | 115 ⁽²⁾ |
| 4. | Lpeak | dB(A) | 128.8 | 123.2 | - |
| 5. | Dose | % | 10.0 | 4.3 | 100 ⁽³⁾ |

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

⁽²⁾ Ministry of Labour's Regulation (2016) (B.E. 2559)

⁽³⁾ American Conference of Governmental Industrial Hygienists; ACGIH

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1231
Received Date : 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลห้วยโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Contact : -

Report Date : 10/05/23
Analysis Date : 26-28/04/23
Job No. : S660183/Apr/Occ
Sampling By : TET
Type of Sample : Working Area

| Sample No. | Sampling point | Parameter | Unit | Sampling Date | Result | Standard | Analysis Date |
|-------------|--|-----------------|-------------------|---------------|---------|----------|---------------|
| 2304-AW1087 | ลานกองเชื้อเพลิง | Total Dust | mg/m ³ | 21/04/23 | 0.501 | 10 | 26-28/04/23 |
| 2304-AW1088 | ลานกองเถ้า | Total Dust | mg/m ³ | 21/04/23 | < 0.010 | 10 | 26-28/04/23 |
| 2304-AW1089 | พนักงานที่ทำงานลานกองเชื้อเพลิง (Person) | Respirable Dust | mg/m ³ | 21/04/23 | < 0.010 | 3 | 26-28/04/23 |
| 2304-AW1090 | พนักงานที่ทำงานลานกองเถ้า (Person) | Respirable Dust | mg/m ³ | 21/04/23 | 0.668 | 3 | 26-28/04/23 |

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
10/05/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
10/05/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 2023/1-1

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)

Report Date : March 31, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพวนหิน
จังหวัดพิจิตร 66150

Sampling Date : March 25, 2023

Type of Sample : Heat

Job No. : S660183/Mar/1

| Item | Description | Sampling Date | Sampling Time | Result (°C) | | | | |
|----------------------------|---|---------------|---------------|-------------|------|------|------|--------------|
| | | | | NWB | DB | GT | WBGT | WBGT Average |
| 1. | อาคารหม้อไอน้ำ | 25/03/23 | 13.00-15.00 | | | | | |
| | - ยืนเขี่ยเชื้อเพลิงในเตาเผา (10 นาที) | | | 26.1 | 37.5 | 39.6 | 30.2 | 28.8 |
| | - นั่งทำงานเอกสาร (110 นาที) | | | 25.1 | 35.2 | 37.2 | 28.7 | |
| 2. | อาคารเครื่องกำเนิดไฟฟ้า | 25/03/23 | 13.00-15.00 | | | | | |
| | - เดินจับบันทึกค่าแก๊สวัดความดัน (10 นาที) | | | 27.8 | 39.0 | 39.8 | 31.4 | 21.7 |
| | - นั่งควบคุมการทำงานของเครื่องจักรภายในห้อง Control Room (110 นาที) | | | 19.2 | 23.9 | 24.5 | 20.8 | |
| Standard ⁽¹⁾⁽²⁾ | | | | - | - | - | - | 34.0 |

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

⁽²⁾ 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

WBGT Average =
$$\frac{(WBGT_1 \times t_1) + (WBGT_2 \times t_2) + \dots + (WBGT_n \times t_n)}{t_1 + t_2 + \dots + t_n}$$

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1231/2023/3-16

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 8, 2023

Sampling Date : April 21, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150

Type of Sample : Heat

Job No. : S660183/Apr/Occ

| Item | Description | Sampling Date | Sampling Time | Result (°C) | | | | |
|----------------------------|---|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| | | | | NWB | DB | GT | WBGT | WBGT Average |
| 1. | อาคารหม้อไอน้ำ - ยืนเขี่ยเชื้อเพลิงในเตาเผา (80 นาที) - นั่งควบคุมการทำงานของหม้อไอน้ำในห้อง Control Room (40 นาที) | 21/04/23 | 10.00-12.00 | 30.0 21.0 | 35.8 22.0 | 38.3 24.0 | 32.5 21.9 | 29.0 |
| 2. | อาคารเครื่องกำเนิดไฟฟ้า - เดินตรวจสอบการทำงานของเครื่องจักร (40 นาที) - นั่งควบคุมการทำงานของเครื่องจักรในห้อง Control Room (80 นาที) | 21/04/23 | 10.00-12.00 | 30.2 21.0 | 34.0 22.0 | 35.3 24.0 | 31.7 21.9 | 25.2 |
| Standard ⁽¹⁾⁽²⁾ | | | | - | - | - | - | 34.0 |

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

⁽²⁾ 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

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1231
Received Date : 26/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
โครงการ โรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร (ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Contact : -

Report Date : 10/05/23
Analysis Date : 26-28/04/23
Job No. : S660183/Apr/Occ
Sampling By : TET
Type of Sample : Working Area

| Sample No. | Sampling point | Parameter | Unit | Sampling Date | Result | Analysis Date |
|-------------|------------------|----------------|--------------------|---------------|-----------------------|---------------|
| 2304-AW1092 | ลานกองเชื้อเพลิง | Fungi | CFU/m ³ | 25/04/23 | 5.3 x 10 ² | 26-28/04/23 |
| | | Total Bacteria | CFU/m ³ | 25/04/23 | 1.7 x 10 ³ | 26-28/04/23 |

Method : Fungi - Direct count (NIOSH 0800, Issue 1 : Jan 1998)
Total Bacteria - Direct count (NIOSH 0800, Issue 1 : Jan 1998)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
10/05/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
10/05/23

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1231/2023/4-16

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 8, 2023

Sampling Date : April 24, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอยะนิง จังหวัดพิจิตร 66150

Type of Sample : Light (Spot)

Job No. : S660183/Apr/Occ

(4/1-2)

| Item | Sampling Point | Description | Results | Standard (Lux) |
|------|-----------------------|-------------|-----------------------|-------------------|
| | | | Light Intensity (Lux) | |
| | | | 24/04/23 | |
| 1. | อาคารสำนักงาน | คอมพิวเตอร์ | 521 | 400-500 |
| 2. | โต๊ะทำงานคุณสมเกียรติ | คอมพิวเตอร์ | 677 | 400-500 |
| 3. | โต๊ะทำงานคุณวัชรินทร์ | คอมพิวเตอร์ | 443 | 400-500 |
| 4. | โต๊ะทำงานคุณเสกสรร | คอมพิวเตอร์ | 467 | 400-500 |
| 5. | โต๊ะทำงานคุณศักดิ์ดา | เอกสาร | 446 | 400-500 |
| 6. | โต๊ะทำงานคุณมัทพล | เอกสาร | 557 | 400-500 |
| 7. | โต๊ะทำงานคุณณัฐธิดา | คอมพิวเตอร์ | 630 | 400-500 |
| 8. | โต๊ะทำงานคุณนุชสร | คอมพิวเตอร์ | 519 | 400-500 |
| 9. | โต๊ะทำงานคุณพัชรา | คอมพิวเตอร์ | 521 | 400-500 |
| 10. | โต๊ะทำงานคุณศิริยา | คอมพิวเตอร์ | 502 | 400-500 |
| 11. | โต๊ะทำงานคุณเปรมฤทัย | คอมพิวเตอร์ | 615 | 400-500 |
| 12. | โต๊ะทำงานคุณศุภกฤต | คอมพิวเตอร์ | 606 | 400-500 |
| 13. | โต๊ะทำงานคุณพัสนันท์ | คอมพิวเตอร์ | 529 | 400-500 |
| 14. | โต๊ะทำงานคุณเขวาลิต | คอมพิวเตอร์ | 480 | 400-500 |
| 15. | โต๊ะทำงานคุณวิษุทธิ์ | คอมพิวเตอร์ | 467 | 400-500 |
| 16. | โต๊ะทำงานคุณอรุณกร | คอมพิวเตอร์ | 425 | 400-500 |
| 17. | โต๊ะทำงานคุณอิทธิพล | คอมพิวเตอร์ | 440 | 400-500 |
| 18. | โต๊ะทำงานคุณแสงอรุณ | คอมพิวเตอร์ | 459 | 400-500 |
| 19. | โต๊ะทำงานคุณจิตตินาถ | คอมพิวเตอร์ | 463 | 400-500 |
| 19. | โต๊ะทำงานคุณโกสุม | คอมพิวเตอร์ | | |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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

(4/2-2)

| Item | Sampling Point | Description | Results | Standard (Lux) |
|------|--|-----------------|-----------------------|-------------------|
| | | | Light Intensity (Lux) | |
| | | | 24/04/23 | |
| 20. | เครื่องถ่ายเอกสาร | ถ่ายเอกสาร | 570 | 300-400 |
| 21. | จุดตรวจสอบน้ำ ED1 | ตรวจเช็คระบบน้ำ | 2,150 | 300-400 |
| | - พื้นที่ 2 | - | 2,014 | 600 |
| | - พื้นที่ 3 | - | 1,983 | 300 |
| 22. | จุดตรวจสอบน้ำ RO | ตรวจเช็คระบบน้ำ | 2,280 | 300-400 |
| | - พื้นที่ 2 | - | 2,140 | 600 |
| | - พื้นที่ 3 | - | 1,988 | 300 |
| 23. | จุดตรวจสอบน้ำ UF | ตรวจเช็คระบบน้ำ | 2,539 | 300-400 |
| | - พื้นที่ 2 | - | 2,320 | 600 |
| | - พื้นที่ 3 | - | 1,897 | 300 |
| 24. | จุดผสมสารเคมี | ผสมสารเคมี | 2,469 | 300-400 |
| | - พื้นที่ 2 | - | 2,318 | 600 |
| | - พื้นที่ 3 | - | 1,525 | 300 |
| | Turbine | | | |
| 25. | โต๊ะทำงานคุณธนารินทร์ ห้องศูนย์วิศวกรรม | คอมพิวเตอร์ | 413 | 400-500 |
| 26. | โต๊ะทำงานคุณจุฑาทิพย์ | คอมพิวเตอร์ | 415 | 400-500 |
| 27. | โต๊ะทำงานคุณอารีรัตน์ | คอมพิวเตอร์ | 416 | 400-500 |
| 28. | โต๊ะทำงานคุณวรวิทย์ | เอกสาร | 414 | 400-500 |
| 29. | โต๊ะทำงานคุณกฤษฎา | เอกสาร | 400 | 400-500 |
| 30. | โต๊ะทำงานคุณศิริพงษ์ | เอกสาร | 404 | 400-500 |
| 31. | โต๊ะทำงานคุณมัทพล | คอมพิวเตอร์ | 428 | 400-500 |
| 32. | โต๊ะทำงานคุณรัชชัย | คอมพิวเตอร์ | 410 | 400-500 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1231/2023/5-16

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 8, 2023

Sampling Date : April 24, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150

Type of Sample : Light (Area)

Job No. : S660183/Apr/Occ

(5/1-2)

| Item | Sampling Point | Description | Results |
|------|-----------------------|-------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| | Turbine Control Panel | | |
| 1. | จุดที่ 1 | ห้องควบคุม | 479 |
| 2. | จุดที่ 2 | ห้องควบคุม | 460 |
| 3. | จุดที่ 3 | ห้องควบคุม | 405 |
| 4. | จุดที่ 4 | ห้องควบคุม | 429 |
| 5. | จุดที่ 5 | ห้องควบคุม | 441 |
| 6. | จุดที่ 6 | ห้องควบคุม | 422 |
| 7. | จุดที่ 7 | ห้องควบคุม | 452 |
| 8. | จุดที่ 8 | ห้องควบคุม | 431 |
| 9. | จุดที่ 9 | ห้องควบคุม | 512 |
| 10. | จุดที่ 10 | ห้องควบคุม | 523 |
| 11. | จุดที่ 11 | ห้องควบคุม | 497 |
| 12. | จุดที่ 12 | ห้องควบคุม | 449 |
| 13. | จุดที่ 13 | ห้องควบคุม | 453 |
| 14. | จุดที่ 14 | ห้องควบคุม | 503 |
| 15. | จุดที่ 15 | ห้องควบคุม | 439 |
| 16. | จุดที่ 16 | ห้องควบคุม | 429 |
| 17. | จุดที่ 17 | ห้องควบคุม | 445 |
| 18. | จุดที่ 18 | ห้องควบคุม | 482 |
| 19. | จุดที่ 19 | ห้องควบคุม | 531 |
| 20. | จุดที่ 20 | ห้องควบคุม | 453 |



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

(5/2-2)

| Item | Sampling Point | Description | Results |
|--|-----------------------------|-------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| | Turbine Control Panel (ต่อ) | | |
| 21. | จุดที่ 21 | ห้องควบคุม | 419 |
| 22. | จุดที่ 22 | ห้องควบคุม | 413 |
| 23. | จุดที่ 23 | ห้องควบคุม | 437 |
| 24. | จุดที่ 24 | ห้องควบคุม | 445 |
| 25. | จุดที่ 25 | ห้องควบคุม | 502 |
| 26. | จุดที่ 26 | ห้องควบคุม | 659 |
| 27. | จุดที่ 27 | ห้องควบคุม | 582 |
| 28. | จุดที่ 28 | ห้องควบคุม | 541 |
| 29. | จุดที่ 29 | ห้องควบคุม | 538 |
| 30. | จุดที่ 30 | ห้องควบคุม | 504 |
| 31. | จุดที่ 31 | ห้องควบคุม | 607 |
| 32. | จุดที่ 32 | ห้องควบคุม | 525 |
| 33. | จุดที่ 33 | ห้องควบคุม | 453 |
| 34. | จุดที่ 34 | ห้องควบคุม | 457 |
| 35. | จุดที่ 35 | ห้องควบคุม | 587 |
| 36. | จุดที่ 36 | ห้องควบคุม | 572 |
| 37. | จุดที่ 37 | ห้องควบคุม | 555 |
| 38. | จุดที่ 38 | ห้องควบคุม | 504 |
| 39. | จุดที่ 39 | ห้องควบคุม | 474 |
| 40. | จุดที่ 40 | ห้องควบคุม | 430 |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 486 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 200 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 405 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 100 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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

TEST REPORT

Customer Name : บริษัท ทีพีพี จำกัด

Report No. : 1231/2023/6-16

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 8, 2023

Sampling Date : April 24, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150

Type of Sample : Light (Area)

Job No. : S660183/Apr/Occ

| Item | Sampling Point | Description | Results |
|--|----------------|-------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| 1. | จุดที่ 1 | ห้องสุขา | 240 |
| 2. | จุดที่ 2 | ห้องสุขา | 235 |
| 3. | จุดที่ 3 | ห้องสุขา | 229 |
| 4. | จุดที่ 4 | ห้องสุขา | 251 |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 239 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 100 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 229 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 50 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL
ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Job No. : S660183/Apr/Occ

Report No. : 1231/2023/7-16
Report Date : May 8, 2023
Sampling Date : April 24, 2023
Type of Sample : Light (Area)

| Item | Sampling Point | Description | Results |
|--|----------------------------------|-------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| 1. | ห้องสุขาหญิง บริเวณอาคารวิศวกรรม | ห้องสุขา | 280 |
| 2. | จุดที่ 1 | ห้องสุขา | 220 |
| 3. | จุดที่ 2 | ห้องสุขา | 231 |
| 4. | จุดที่ 3 | ห้องสุขา | 275 |
| | จุดที่ 4 | ห้องสุขา | |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 252 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 100 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 220 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 50 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1231/2023/8-16

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 8, 2023

Sampling Date : April 24, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน จังหวัดพิจิตร 66150

Type of Sample : Light (Area)

Job No. : S660183/Apr/Occ

| Item | Sampling Point | Description | Results |
|--|----------------|-------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| 1. | จุดที่ 1 | ห้องควบคุม | 415 |
| 2. | จุดที่ 2 | ห้องควบคุม | 459 |
| 3. | จุดที่ 3 | ห้องควบคุม | 480 |
| 4. | จุดที่ 4 | ห้องควบคุม | 403 |
| 5. | จุดที่ 5 | ห้องควบคุม | 424 |
| 6. | จุดที่ 6 | ห้องควบคุม | 427 |
| 7. | จุดที่ 7 | ห้องควบคุม | 443 |
| 8. | จุดที่ 8 | ห้องควบคุม | 454 |
| 9. | จุดที่ 9 | ห้องควบคุม | 420 |
| 10. | จุดที่ 10 | ห้องควบคุม | 426 |
| 11. | จุดที่ 11 | ห้องควบคุม | 554 |
| 12. | จุดที่ 12 | ห้องควบคุม | 475 |
| 13. | จุดที่ 13 | ห้องควบคุม | 444 |
| 14. | จุดที่ 14 | ห้องควบคุม | 419 |
| 15. | จุดที่ 15 | ห้องควบคุม | 424 |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 444 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 200 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 403 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 100 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1231/2023/9-16

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 8, 2023

Sampling Date : April 24, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน จังหวัดพิจิตร 66150

Type of Sample : Light (Area)

Job No. : S660183/Apr/Occ

| Item | Sampling Point | Description | Results |
|--|----------------|-------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| 1. | จุดที่ 1 | ห้องประชุม | 518 |
| 2. | จุดที่ 2 | ห้องประชุม | 503 |
| 3. | จุดที่ 3 | ห้องประชุม | 502 |
| 4. | จุดที่ 4 | ห้องประชุม | 570 |
| 5. | จุดที่ 5 | ห้องประชุม | 556 |
| 6. | จุดที่ 6 | ห้องประชุม | 591 |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 540 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 300 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 502 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 150 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพวน จังหวัดพิจิตร 66150
Job No. : S660183/Apr/Occ

Report No. : 1231/2023/10-16
Report Date : May 8, 2023
Sampling Date : April 24, 2023
Type of Sample : Light (Area)

| Item | Sampling Point | Description | Results |
|--|---|-------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| | ห้องควบคุมอาคารปฏิบัติการวิเคราะห์ (Lab) Control Panel ระบบน้ำ | | |
| 1. | จุดที่ 1 | ห้องควบคุม | 459 |
| 2. | จุดที่ 2 | ห้องควบคุม | 498 |
| 3. | จุดที่ 3 | ห้องควบคุม | 577 |
| 4. | จุดที่ 4 | ห้องควบคุม | 424 |
| 5. | จุดที่ 5 | ห้องควบคุม | 450 |
| 6. | จุดที่ 6 | ห้องควบคุม | 435 |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 474 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 200 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 424 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 100 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.
Suphakchaya Yoonim



Somchai P.
Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1231/2023/11-16

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 8, 2023

Sampling Date : April 24, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพนาหิน จังหวัดพิจิตร 66150

Type of Sample : Light (Area)

Job No. : S660183/Apr/Occ

| Item | Sampling Point | Description | Results |
|--|----------------|---------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| 1. | จุดที่ 1 | ห้องวิเคราะห์ | 543 |
| 2. | จุดที่ 2 | ห้องวิเคราะห์ | 535 |
| 3. | จุดที่ 3 | ห้องวิเคราะห์ | 508 |
| 4. | จุดที่ 4 | ห้องวิเคราะห์ | 568 |
| 5. | จุดที่ 5 | ห้องวิเคราะห์ | 555 |
| 6. | จุดที่ 6 | ห้องวิเคราะห์ | 560 |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 545 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 300 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 508 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 150 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Yoonim

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1231/2023/12-16

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 8, 2023

Sampling Date : April 24, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150

Type of Sample : Light (Area)

Job No. : S660183/Apr/Occ

| Item | Sampling Point | Description | Results |
|--|----------------|-------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| 1. | จุดที่ 1 | ปฐมพยาบาล | 601 |
| 2. | จุดที่ 2 | ปฐมพยาบาล | 690 |
| 3. | จุดที่ 3 | ปฐมพยาบาล | 997 |
| 4. | จุดที่ 4 | ปฐมพยาบาล | 634 |
| 5. | จุดที่ 5 | ปฐมพยาบาล | 668 |
| 6. | จุดที่ 6 | ปฐมพยาบาล | 609 |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 700 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 50 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 601 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 25 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



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 ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด

Report No. : 1231/2023/13-16

Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)

Report Date : May 8, 2023

Sampling Date : April 24, 2023

Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150

Type of Sample : Light (Area)

Job No. : S660183/Apr/Occ

| Item | Sampling Point | Description | Results |
|--|----------------|----------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| 1. | จุดที่ 1 | รับประทานอาหาร | 885 |
| 2. | จุดที่ 2 | รับประทานอาหาร | 827 |
| 3. | จุดที่ 3 | รับประทานอาหาร | 979 |
| 4. | จุดที่ 4 | รับประทานอาหาร | 883 |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 894 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 300 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 827 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 150 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL
ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพิกุล จังหวัดพิจิตร 66150
Job No. : S660183/Apr/Occ

Report No. : 1231/2023/14-16
Report Date : May 8, 2023
Sampling Date : April 24, 2023
Type of Sample : Light (Area)

| Item | Sampling Point | Description | Results |
|--|----------------|-------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| 1. | จุดที่ 1 | ห้องสุขา | 543 |
| 2. | จุดที่ 2 | ห้องสุขา | 643 |
| 3. | จุดที่ 3 | ห้องสุขา | 652 |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 613 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 100 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 543 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 50 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL
ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Customer Name : บริษัท ทิพย์พิจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอตะพานหิน จังหวัดพิจิตร 66150
Job No. : S660183/Apr/Occ

Report No. : 1231/2023/15-16
Report Date : May 8, 2023
Sampling Date : April 24, 2023
Type of Sample : Light (Area)

| Item | Sampling Point | Description | Results |
|--|---------------------------------|-------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| 1. | ห้องสุขาชาย บริเวณอาคารสำนักงาน | ห้องสุขา | 415 |
| 2. | จุดที่ 1 | ห้องสุขา | 644 |
| 3. | จุดที่ 2 | ห้องสุขา | 657 |
| | จุดที่ 3 | ห้องสุขา | |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 572 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 100 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 415 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 50 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL
ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Customer Name : บริษัท ทีพีพีจิตร ไฮบริดเอนเนอจี จำกัด
Project : โครงการโรงไฟฟ้าชีวมวล SPP Hybrid พิจิตร
(ระยะดำเนินการ)
Address : 168 หมู่ 6 ตำบลทุ่งโพธิ์ อำเภอดงพวน จังหวัดพิจิตร 66150
Job No. : S660183/Apr/Occ

Report No. : 1231/2023/16-16
Report Date : May 8, 2023
Sampling Date : April 24, 2023
Type of Sample : Light (Area)

| Item | Sampling Point | Description | Results |
|--|----------------|-------------|--------------------------|
| | | | Light Intensity (Lux) |
| | | | 24/04/23 |
| 1. | จุดที่ 1 | ห้องประชุม | 673 |
| 2. | จุดที่ 2 | ห้องประชุม | 742 |
| 3. | จุดที่ 3 | ห้องประชุม | 754 |
| 4. | จุดที่ 4 | ห้องประชุม | 784 |
| 5. | จุดที่ 5 | ห้องประชุม | 757 |
| 6. | จุดที่ 6 | ห้องประชุม | 753 |
| 7. | จุดที่ 7 | ห้องประชุม | 735 |
| 8. | จุดที่ 8 | ห้องประชุม | 702 |
| 9. | จุดที่ 9 | ห้องประชุม | 759 |
| 10. | จุดที่ 10 | ห้องประชุม | 709 |
| ค่าเฉลี่ยความเข้มของแสงสว่าง | | | 737 |
| มาตรฐานค่าเฉลี่ยความเข้มของแสงสว่าง | | | 300 |
| ค่าความเข้มของแสงสว่างต่ำสุด | | | 673 |
| มาตรฐานจุดที่ความเข้มของแสงสว่างต่ำสุด | | | 150 |

Standard : Notification of the Department of Labour Protection and Welfare (2018) (B.E. 2561)

Suphakchaya Y.

Suphakchaya Yoonim



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL