

## ANALYSIS REPORT

**CUSTOMER NAME** : ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310  
**CONTACT INFORMATION** : TEL : 0 2318 6788 e-mail : dusadee\_kpy@hotmail.com  
**SAMPLING SOURCE** : DONG HONG COMPANY LIMITED  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 25, 2022  
**SAMPLING TIME** : 10:40 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : JANUARY 25, 2022  
**ANALYTICAL DATE** : JANUARY 25-31, 2022  
**REPORT NO.** : 2022-U008213  
**WORK NO.** : 2021-008810  
**ANALYSIS NO.** : T22AB373-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AB373-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.8 (30°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	57	-	10
COLOUR (pH 7.0) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	53	-	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	33.5	≤ 350	2.0
CHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	102	≤ 750	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	133	≤ 200	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	350	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	≤ 10.0	3
METALS					
CADMIUM <sup>c</sup>	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM <sup>c</sup>	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.007	-	0.001
COPPER <sup>c</sup>	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.036	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AB373-0001		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.003	≤ 0.20	0.002
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

FEBRUARY 4, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310  
**CONTACT INFORMATION** : TEL : 0 2318 6788 e-mail : dusadee\_kpy@hotmail.com  
**SAMPLING SOURCE** : RCI SYSTEMS & ADVANCED CHEMICALS COMPANY LIMITED  
**SAMPLE TYPE** : EFFLUENT **RECEIVED DATE** : JANUARY 25, 2022  
**SAMPLING DATE** : JANUARY 25, 2022 **ANALYTICAL DATE** : JANUARY 25-31, 2022  
**SAMPLING TIME** : 10:52 HOUR **REPORT NO.** : 2022-U008214  
**SAMPLING METHOD °** : GRAB **WORK NO.** : 2021-008810  
**SAMPLING BY °** : MR NAPASIT SRIPIM **ANALYSIS NO.** : T22AB373-0002  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AB373-0002		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H+ B)	7.6 (31°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) °	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	82	-	10
COLOUR (pH 7.0) °	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	76	-	10
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	15.4	≤ 350	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	35.8	≤ 750	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	10.8	≤ 200	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	526	≤ 3,000	25
FAT, OIL AND GREASE °	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	≤ 10.0	3
METALS					
CADMIUM °	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM °	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.001	-	0.001
COPPER °	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.008	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AB373-0002		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.20	0.002
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

FEBRUARY 4, 2022

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED	<b>RECEIVED DATE</b>	: FEBRUARY 23, 2022
<b>ADDRESS</b>	: 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310	<b>ANALYTICAL DATE</b>	: FEBRUARY 23 - MARCH 4, 2022
<b>CONTACT INFORMATION</b>	: TEL : 0 2318 6788 e-mail : dusadee_kpy@hotmail.com	<b>REPORT NO.</b>	: 2022-U016151
<b>SAMPLING SOURCE</b>	: DONG HONG COMPANY LIMITED	<b>WORK NO.</b>	: 2021-008810
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T22AD230-0001
<b>SAMPLING DATE</b>	: FEBRUARY 22, 2022		
<b>SAMPLING TIME</b>	: 14:50 HOUR		
<b>SAMPLING METHOD <sup>c</sup></b>	: GRAB		
<b>SAMPLING BY <sup>c</sup></b>	: MR NAPASIT SRIPIM		
<b>ANALYZED BY</b>	: MISS PORNPIMOL WAENTHONG		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AD230-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.9 (28°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	61	-	10
COLOUR (pH 7.0) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	54	-	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	80.1	≤ 350	2.0
CHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	162	≤ 750	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	38.2	≤ 200	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	329	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	3	≤ 10.0	3
<b>METALS</b>					
CADMIUM <sup>c</sup>	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM <sup>c</sup>	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.001	-	0.001
COPPER <sup>c</sup>	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.009	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AD230-0001		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.20	0.002
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Paweena Ch.*

(MISS PAWEENA CHARASCHOTEPINIT)  
LABORATORY SUPERVISOR

MARCH 7, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310  
**CONTACT INFORMATION** : TEL : 0 2318 6788 e-mail : dusadee\_kpy@hotmail.com  
**SAMPLING SOURCE** : RCI SYSTEMS & ADVANCED CHEMICALS COMPANY LIMITED  
**SAMPLE TYPE** : EFFLUENT **RECEIVED DATE** : FEBRUARY 23, 2022  
**SAMPLING DATE** : FEBRUARY 22, 2022 **ANALYTICAL DATE** : FEBRUARY 23 - MARCH 4, 2022  
**SAMPLING TIME** : 15:05 HOUR **REPORT NO.** : 2022-U016152  
**SAMPLING METHOD <sup>c</sup>** : GRAB **WORK NO.** : 2021-008810  
**SAMPLING BY <sup>c</sup>** : MR NAPASIT SRIPIM **ANALYSIS NO.** : T22AD230-0002  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AD230-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.2 (28°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	11	-	10
COLOUR (pH 7.0) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	10	-	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	ND	≤ 350	2.0
CHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	ND	≤ 750	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103- 105 °C (SM: 2540 D)	ND	≤ 200	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	173	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	≤ 10.0	3
<b>METALS</b>					
CADMIUM <sup>c</sup>	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM <sup>c</sup>	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	-	0.001
COPPER <sup>c</sup>	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.002	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AD230-0002		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.20	0.002
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Paweena Ch.*

(MISS PAWEENA CHARASCHOTEPINIT)  
LABORATORY SUPERVISOR

MARCH 7, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310  
**CONTACT INFORMATION** : TEL : 0 2318 6788 e-mail : dusadee\_kpy@hotmail.com  
**SAMPLING SOURCE** : DONG HONG COMPANY LIMITED  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MARCH 22, 2022  
**SAMPLING TIME** : 12:00 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : MARCH 22, 2022  
**ANALYTICAL DATE** : MARCH 22-30, 2022  
**REPORT NO.** : 2022-U024505  
**WORK NO.** : 2021-008810  
**ANALYSIS NO.** : T22AF515-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AF515-0001		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.0 (31°C)	5.5-9.0	-
COLOUR <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	26	-	10
COLOUR <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	27	-	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	11.8	≤ 350	2.0
CHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	35.0	≤ 750	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	18.6	≤ 200	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	264	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	≤ 10.0	3
<b>METALS</b>					
CADMIUM <sup>c</sup>	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM <sup>c</sup>	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.001	-	0.001
COPPER <sup>c</sup>	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.003	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AF515-0001		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.20	0.002
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 4, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310  
**CONTACT INFORMATION** : TEL : 0 2318 6788 e-mail : dusadee\_kpy@hotmail.com  
**SAMPLING SOURCE** : RCI SYSTEMS & ADVANCED CHEMICALS COMPANY LIMITED  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MARCH 22, 2022  
**SAMPLING TIME** : 11:50 HOUR  
**SAMPLING METHOD** <sup>c</sup> : GRAB  
**SAMPLING BY** <sup>c</sup> : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : MARCH 22, 2022  
**ANALYTICAL DATE** : MARCH 22-30, 2022  
**REPORT NO.** : 2022-U024506  
**WORK NO.** : 2021-008810  
**ANALYSIS NO.** : T22AF515-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AF515-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	6.8 (32°C)	5.5-9.0	-
COLOUR <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	45	-	10
COLOUR <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	47	-	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	14.7	≤ 350	2.0
CHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	ND	≤ 750	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	≤ 200	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	302	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	≤ 10.0	3
<b>METALS</b>					
CADMIUM <sup>c</sup>	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM <sup>c</sup>	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	-	0.001
COPPER <sup>c</sup>	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.003	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AF515-0002		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.20	0.002
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 4, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310  
**CONTACT INFORMATION** : TEL : 0 2318 6788 e-mail : dusadee\_kpy@hotmail.com  
**SAMPLING SOURCE** : DONG HONG COMPANY LIMITED  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : APRIL 26, 2022  
**SAMPLING TIME** : 11:40 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : APRIL 26, 2022  
**ANALYTICAL DATE** : APRIL 26 - MAY 9, 2022  
**REPORT NO.** : 2022-U033294  
**WORK NO.** : 2021-008810  
**ANALYSIS NO.** : T22AH821-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AH821-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.0 (31°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	60	-	10
COLOUR (pH 7.0) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	58	-	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	132	≤ 350	2.0
CHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	245	≤ 750	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	60.7	≤ 200	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	261	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	≤ 10.0	3
METALS					
CADMIUM <sup>c</sup>	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM <sup>c</sup>	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.003	-	0.001
COPPER <sup>c</sup>	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.008	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AH821-0001		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.002	≤ 0.20	0.002
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

MAY 10, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310  
**CONTACT INFORMATION** : TEL : 0 2318 6788 e-mail : dusadee\_kpy@hotmail.com  
**SAMPLING SOURCE** : RCI SYSTEMS & ADVANCED CHEMICALS COMPANY LIMITED  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : APRIL 26, 2022  
**SAMPLING TIME** : 11:50 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : APRIL 26, 2022  
**ANALYTICAL DATE** : APRIL 26 - MAY 9, 2022  
**REPORT NO.** : 2022-U033295  
**WORK NO.** : 2021-008810  
**ANALYSIS NO.** : T22AH821-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AH821-0002		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	6.8 (32°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) °	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	20	-	10
COLOUR (pH 7.0) °	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	19	-	10
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	ND	≤ 350	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	ND	≤ 750	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	≤ 200	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	256	≤ 3,000	25
FAT, OIL AND GREASE °	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	≤ 10.0	3
METALS					
CADMIUM °	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM °	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.001	-	0.001
COPPER °	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.003	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AH821-0002		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.20	0.002
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

MAY 10, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310  
**CONTACT INFORMATION** : TEL : 0 2318 6788 e-mail : dusadee\_kpy@hotmail.com  
**SAMPLING SOURCE** : DONG HONG COMPANY LIMITED  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 24, 2022  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : MAY 24, 2022  
**ANALYTICAL DATE** : MAY 24-30, 2022  
**REPORT NO.** : 2022-U041354  
**WORK NO.** : 2021-008810  
**ANALYSIS NO.** : T22AJ847-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AJ847-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.5 (30°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	89	-	10
COLOUR (pH 7.0) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	82	-	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	85.0	≤ 350	2.0
CHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	190	≤ 750	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103- 105 °C (SM: 2540 D)	33.5	≤ 200	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	328	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	≤ 10.0	3
<b>METALS</b>					
CADMIUM <sup>c</sup>	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM <sup>c</sup>	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.005	-	0.001
COPPER <sup>c</sup>	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.006	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AJ847-0001		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.20	0.002
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

JUNE 2, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310  
**CONTACT INFORMATION** : TEL : 0 2318 6788 e-mail : dusadee\_kpy@hotmail.com  
**SAMPLING SOURCE** : RCI SYSTEMS & ADVANCED CHEMICALS COMPANY LIMITED  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 24, 2022  
**SAMPLING TIME** : 11:10 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : MAY 24, 2022  
**ANALYTICAL DATE** : MAY 24-30, 2022  
**REPORT NO.** : 2022-U041355  
**WORK NO.** : 2021-008810  
**ANALYSIS NO.** : T22AJ847-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AJ847-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.8 (30°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	94	-	10
COLOUR (pH 7.0) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	88	-	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	15.8	≤ 350	2.0
CHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	66.5	≤ 750	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103- 105 °C (SM: 2540 D)	16.4	≤ 200	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	344	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	≤ 10.0	3
<b>METALS</b>					
CADMIUM <sup>c</sup>	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM <sup>c</sup>	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.001	-	0.001
COPPER <sup>c</sup>	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.004	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AJ847-0002		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.20	0.002
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

JUNE 2, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310  
**CONTACT INFORMATION** : TEL : 0 2318 6788 e-mail : dusadee\_kpy@hotmail.com  
**SAMPLING SOURCE** : DONG HONG COMPANY LIMITED  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JUNE 28, 2022  
**SAMPLING TIME** : 10:50 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : JUNE 28, 2022  
**ANALYTICAL DATE** : JUNE 28 - JULY 6, 2022  
**REPORT NO.** : 2022-U052561  
**WORK NO.** : 2021-008810  
**ANALYSIS NO.** : T22AM727-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AM727-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.4 (30°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	48	-	10
COLOUR (pH 7.0) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	44	-	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O <sub>2</sub> G AND 5210 B)	34.7	≤ 350	2.0
CHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	104	≤ 750	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	38.0	≤ 200	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	298	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	≤ 10.0	3
<b>METALS</b>					
CADMIUM <sup>c</sup>	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM <sup>c</sup>	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.007	-	0.001
COPPER <sup>c</sup>	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.005	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AM727-0001		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.20	0.002
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAJ)  
LABORATORY SUPERVISOR

JULY 8, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ROJANA INDUSTRIAL MANAGEMENT COMPANY LIMITED  
**ADDRESS** : 2034/115 26TH FLOOR ITALTHAI TOWER, NEW PETCHBURI ROAD BANG KAPI HUAI KHWANG BANGKOK 10310  
**CONTACT INFORMATION** : TEL : 0 2318 6788 e-mail : dusadee\_kpy@hotmail.com  
**SAMPLING SOURCE** : RCI SYSTEMS & ADVANCED CHEMICALS COMPANY LIMITED  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JUNE 28, 2022  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : JUNE 28, 2022  
**ANALYTICAL DATE** : JUNE 28 - JULY 6, 2022  
**REPORT NO.** : 2022-U052562  
**WORK NO.** : 2021-008810  
**ANALYSIS NO.** : T22AM727-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AM727-0002		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	7.1 (30°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) °	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	38	-	10
COLOUR (pH 7.0) °	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: 2120 F)	36	-	10
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	10.2	≤ 350	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	ND	≤ 750	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	≤ 200	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	274	≤ 3,000	25
FAT, OIL AND GREASE °	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	≤ 10.0	3
<b>METALS</b>					
CADMIUM °	mg/L Cd	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.03	0.001
CHROMIUM °	mg/L Cr	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	-	0.001
COPPER °	mg/L Cu	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.002	≤ 2.0	0.001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T22AM727-0002		
LEAD <sup>c</sup>	mg/L Pb	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	ND	≤ 0.20	0.002
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : STANDARD OF DISCHARGED WASTEWATER FROM FACTORY IN ROJANA INDUSTRIAL PARK (CHONBURI).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

JULY 8, 2022