

## ภาคผนวก ค-1

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ปริมาณการผลิตกระแสไฟฟ้า ปริมาณการใช้เชื้อเพลิง  
และปริมาณการระบายน้ำทิ้งลงสู่บ่อกักน้ำทิ้ง  
(Wastewater Holding basin)



## RATCHABURI POWER MONTHLY PERFORMANCE REPORT

Monthly: Jan-24

Duration: 1-Jan-24 31-Jan-24

ITEM	DESCRIPTION	CODE	UNIT	RP-C11	RP-C12	RP-C10	RP-CC1	RP-C21	RP-C22	RP-C20	RP-CC2	Total Plant
1	Gross Efficiency	-	%	-	-	-	-	17.56	3.91	-	19.94	31.84
2	Net Efficiency ( DCS )	-	%	-	-	-	-	17.39	2.68	-	18.07	28.86
3	Net Efficiency ( Reve. Meter & PTT)	-	%	-	-	-	-	-	-	-	-	-
4	Gross Heat Rate	-	kJ/kWh	-	-	-	-	20,503.28	91,977.46	-	18,057.38	11,307.44
5	Net Heat Rate ( DCS )	-	kJ/kWh	-	-	-	-	20,699.58	134,289.31	-	19,922.13	12,475.14
6	Net Heat Rate ( Reve. Meter & PTT)	-	kJ/kWh	-	-	-	-	-	-	-	-	-
7	Gross Maximum Capacity	GMC	MW	245.80	245.80	275.20	766.80	245.80	245.80	275.20	766.80	1,533.60
8	Net Contracted Capacity	NCC	MW	224.39	224.39	251.23	700.00	224.39	224.39	251.23	700.00	1,400.00
9	Gross Generation	GG	MWh	0.00	0.00	0.00	0.00	458.70	22.15	152.46	633.66	633.66
10	Output Factor	OF	%	-	-	-	-	-	-	-	-	-
11	Net Generation	NG	MWh	0.00	0.00	0.00	0.00	454.35	15.17	150.06	574.35	574.35
12	Net Generation (Reve.Meter)	NG	MWh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Dispatch Factor	DF	%	-	-	-	-	-	-	-	-	-
14	Station Service Power	-	MWh	0.00	0.00	-	1,702.28	4.35	6.98	-	109.60	1811.87
15	Station Service Power Percentage	-	%	-	-	-	-	0.95	31.51	-	17.30	285.94
16	Period Hour	PH	Hr	744.00	744.00	744.00	744.00	744.00	744.00	744.00	744.00	-
17	Available Hour	AH	Hr	744.00	744.00	744.00	744.00	164.00	164.00	164.00	164.00	-
18	Availability Factor	AF	%	100.00	100.00	100.00	100.00	22.04	22.04	22.04	22.04	-
19	Service Hour	SH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	Service Factor	SF	%	-	0.00	0.00	0.00	-	-	-	-	-
21	Planned Outage Hour	POH	Hr	0.00	0.00	0.00	0.00	580.00	580.00	580.00	580.00	-
22	Planned Outage Factor	POF	%	0.00	0.00	0.00	0.00	77.96	77.96	77.96	77.96	-
23	Unplanned Outage Hour	UOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
24	Unplanned Outage Factor	UOF	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
25	Maintenance Outage Hour	MOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
26	Forced Outage Hour	FOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
27	Equivalent Unit Derated Hour	EUDH	Hr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	Equivalent Available Hour	EAH	Hr	744.000	744.000	744.000	744.000	164.000	164.000	164.000	164.000	454.000
29	Equivalent Available Factor	EAF	%	-	-	-	100.00	-	-	-	22.04	-
30	Contract Available Factor (For EGAT PA)	-	%	-	-	-	100.00	-	-	-	22.04	-
31	Reliability Factor	RF	%	-	-	-	-	-	-	-	-	-
32	Equivalent Operating Hour	EOH	Hr	41.00	41.00	-	-	29.00	22.00	-	-	-
33	Contract Available Hour	CAH	Hr	-	-	-	744.00	-	-	-	164.00	-
34	Fuel Gas Consumption	-	MMSCF	0.62	0.64	-	1.26	10.62	2.30	-	12.92	8.09
35	Fuel Oil Consumption	-	Ton	0.00	0.00	-	0.00	0.00	0.00	-	0.00	0.00
36	Energy Consumption	-	MMBTU	518.75	538.15	-	1,057	8,914.17	1,930.93	-	10,845	11,902
37	Fuel Gas Energy Consumption (PTT)	-	MMBTU	518.75	538.15	-	1,057	8,914.17	1,930.93	-	10,845	11,902
38	Gross Fuel Cost Rate	-	Baht/kWh	-	-	-	-	5.96	26.76	-	5.25	3.29
39	Net Fuel Cost Rate	-	Baht/kWh	-	-	-	-	6.02	39.07	-	5.80	3.63
40	Gross Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	5.25	3.29
41	Net Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	5.80	3.63
42	Gross Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
43	Net Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
44	Net MWh sent out (revenue meter)	-	MWh	-	-	-	0.00	-	-	-	0.00	0.00
45	Net MVAh sent out (revenue meter)	-	MVAh	-	-	-	0.00	-	-	-	291.72	291.72
46	Net MWh Import (revenue meter)	-	MWh	-	-	-	1,651.99	-	-	-	182.53	1,834.53

47	Net MVAh Import (revenue meter)			-	-	-	1187.538	-	-	-	93.279	1280.817
48	SOLAR GENERATE POWER (Inverter)	MWh										100.57
Fuel Gas Heating Value (HHVsat)				839.1324	Btu/SCF		Cost	306.94	Baht/MMBtu			
Fuel Oil Heating Value (HHV)				45895.7	kJ/kg		Cost	28.178	Baht/Liter			

Remark : -item 28 Calculated Block % Contract Available Factor = (CAH / PH) \*100 Used for EGAT PA.

-Dispatch factor calculation revised using net MWh from data GYR instead of net MWh from DCS and weight for each GT and ST (since Jan. 2013)

Reference : Operation and Maintenance Agreement Schedule 8. appendix 3

Efficiency Engineer

Reporter



Monthly Report

Ratchaburi Power : Block #1

JANUARY

2024

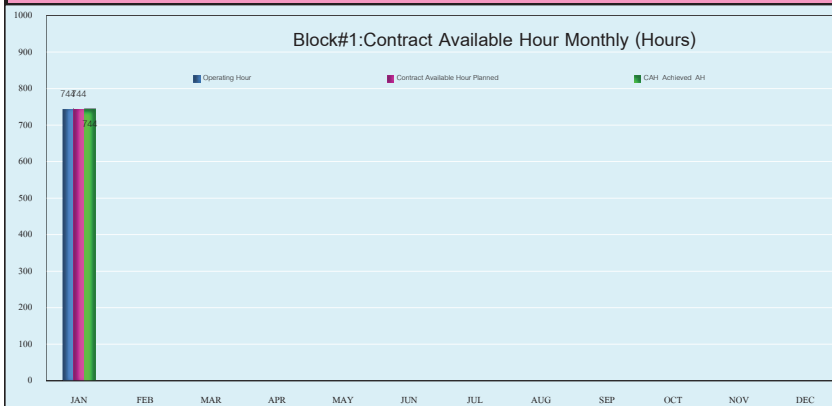
FROM PLANNING MANAGER

Mr.Surachet Saranasuksawat

ร.ท.สุรเชษฐ์ สารณสุksom

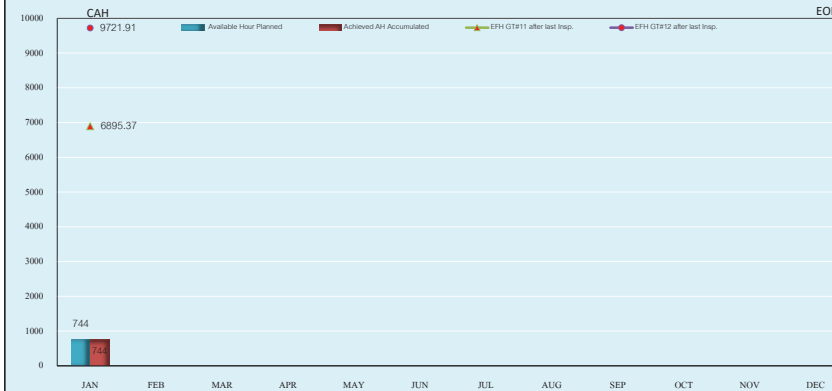
ร.ท.สุรเชษฐ์ สารณสุksom

## Contract Available Hours &amp; Equivalent Operating Hours Summary



HOURS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN-JAN
Operating Hour	744												744
Contract Available Hour Planned	744												744
CAH Achieved AH	744												744
EFH GT#11	41												41
EFH GT#12	41												41

## Block#1: CAH &amp; EOH Accumulative (Hours)



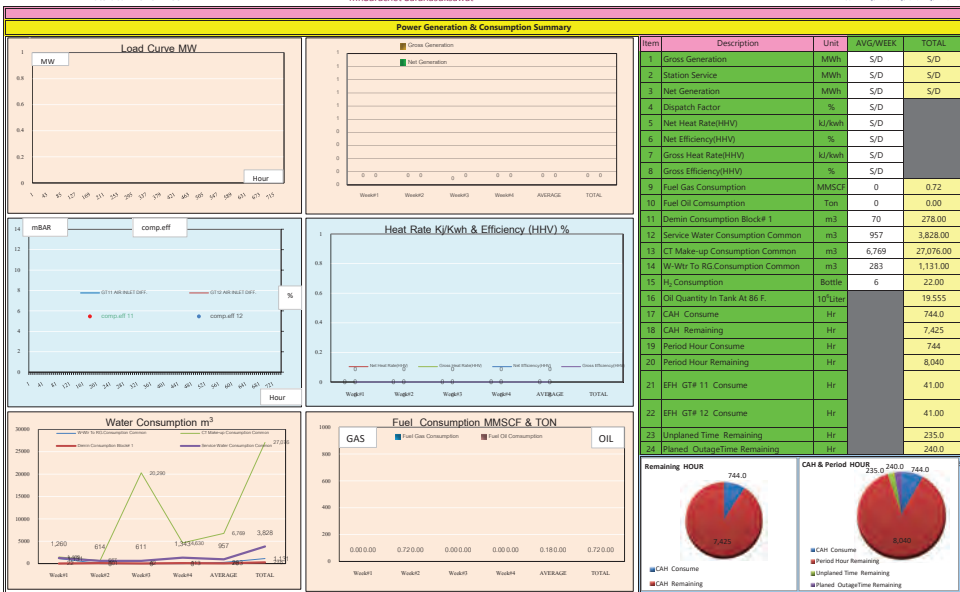
Accumulative Hours	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Operating Hour	744												
Available Hour Planned	744												
CAH Achieved AH	744												
EFH GT#11	83488.78												
EFH GT#11 after last Insp.	6895.37												
EFH GT#12	87088.09												
EFH GT#12 after last Insp.	9721.91												

Reference : RPCL 7 Years Planned Revise\_0/2017\_(20 Jul 2017)

Remark :

วันที่ออกรายงาน

หน้า 1 จาก 1



Remark : Item 25 Unplanned Time Remaining = Period Hour remain - CAH Remain - PlanOutage - Off line washing

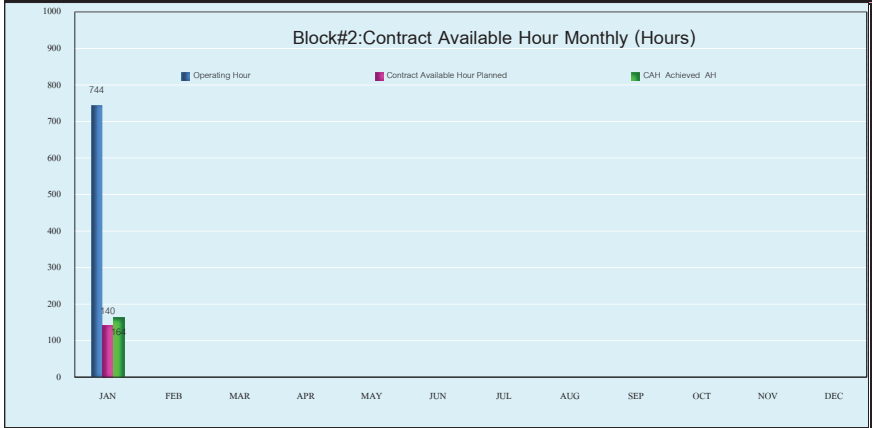
สรุปลักษณะ

Plant & Balance of Plant Condition Summary					
Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#11 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
2	GT#12 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
3	Condenser Inlet Temp.	C	S/D	S/D	Diff.<9 -10 C
4	Condenser Outlet Temp.	C	S/D	S/D	
5	Sum of current CT fan	A	S/D	S/D	3,798
6	CT make up pump A Diff. Pressure (common)	BAR	S/D	S/D	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	S/D	S/D	0.7
8	CT make up Cleaning Strainer	Time		S/D	2
9	Auxiliary CWP A Diff. Pressure	BAR	S/D	S/D	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	S/D	S/D	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	S/D	S/D	0.18
12	Close Cooling water Inlet Temp.	C	S/D	S/D	42
13	Close Cooling water Outlet Temp.	C	S/D	S/D	38
14	Service Water Conductivity	uS/cm	S/D	S/D	300
15	Circulating water Conductivity	uS/cm	S/D	S/D	<1600
16	Boiler Make up WTR Conductivity	uS/cm	S/D	S/D	-
17	Cond.water CEP Conductivity	uS/cm	S/D	S/D	-
18	Treated waste WTR Conductivity	uS/cm	S/D	S/D	2,000
19	Service Water pH	pH	S/D	S/D	-
20	Circulating water pH	pH	S/D	S/D	8.0-8.5
21	Cond.water CEP pH	pH	S/D	S/D	9.3-10.2
22	Treated waste WTR pH	pH	S/D	S/D	6.5-8.5
23	Turbidity of CW Basin	NTU	S/D	S/D	20
HRSG #11 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
25	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
26	CO	ppm	S/D	S/D	690 (690)
27	Opacity	%	S/D	S/D	20 (20)
HRSG #12 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
29	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
30	CO	ppm	S/D	S/D	690 (690)
0	Opacity	%	S/D	S/D	20 (20)

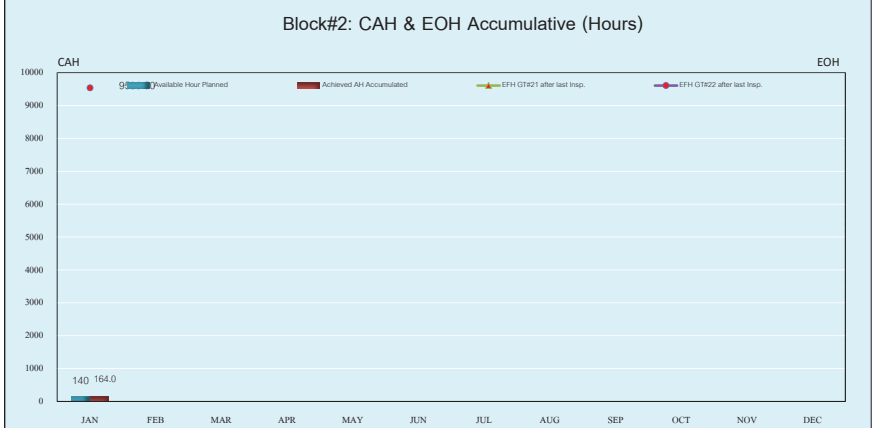
สำหรับรายงาน : สบด,ดล-บพ,ช.ดล-บพ,ม.บ.บ.บพ,ม.ค.บ.บพ,ม.ค.บ.บพ

Remark :

Contract Available Hours & Equivalent Operating Hours Summary

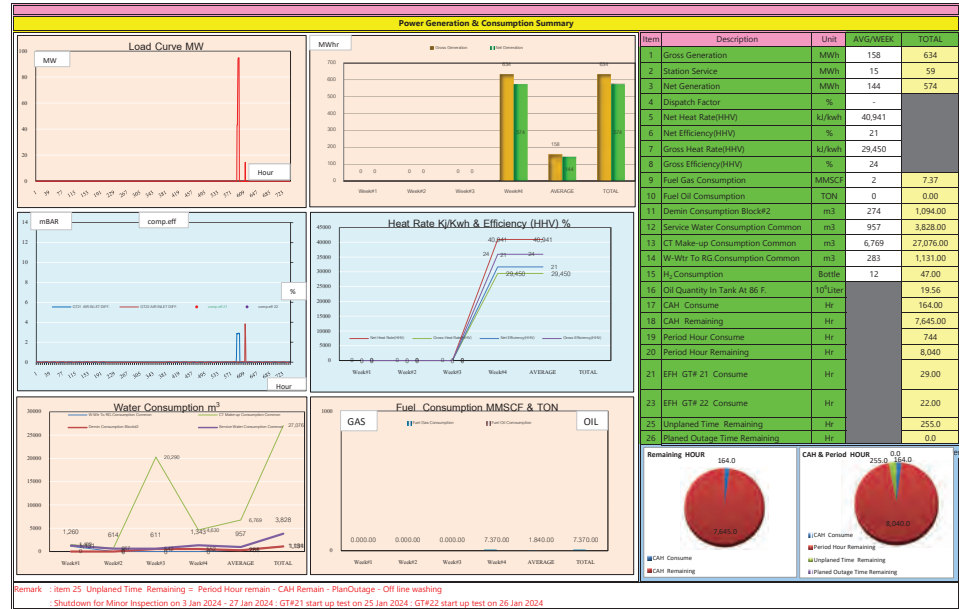
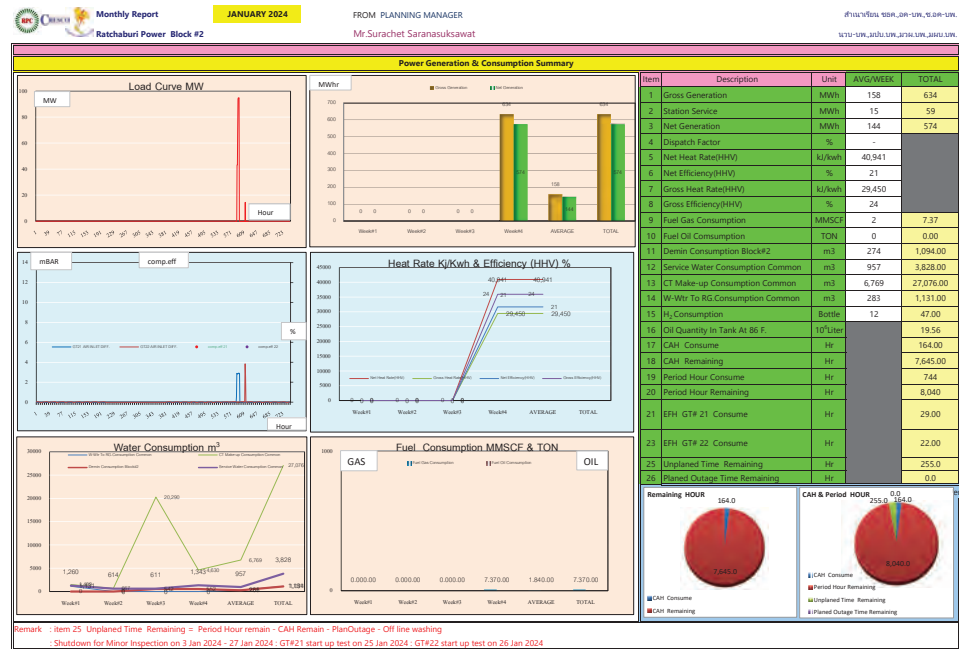


HOURS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN-JAN
Operating Hour	744												744
Contract Available Hour Planned	140												140
CAH Achieved AH	164.0												164
EFH GT#21	29												29
EFH GT#22	22												22



Accumulative Hours	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Operating Hour	744												
Available Hour Planned	140												
CAH Achieved AH	164.0												
EFH GT#21	91762.16												
EFH GT#21 after last Insp.	10165.57												
EFH GT#22	90562.71												
EFH GT#22 after last Insp.	9536.50												

Reference : RPCL 7 Years Planned Revise\_0/2017\_(20 Jul 2017)





JANUARY 2024

Plant & Balance of Plant Condition Summary					
Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#21 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
2	GT#22 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
3	Condenser Inlet Temp.	C	S/D	S/D	Diff.<9 -10 C
4	Condenser Outlet Temp.	C	S/D	S/D	
5	Sum of current CT fan	A	S/D	S/D	3,798
6	CT make up pump A Diff. Pressure (common)	BAR	S/D	S/D	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	S/D	S/D	0.7
8	CT make up Cleaning Strainer	Time		S/D	2
9	Auxiliary CWP A Diff. Pressure	BAR	S/D	S/D	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	S/D	S/D	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	S/D	S/D	0.18
12	Close Cooling water Inlet Temp.	C	S/D	S/D	42
13	Close Cooling water Outlet Temp.	C	S/D	S/D	38
14	Service Water Conductivity	uS/cm	S/D	S/D	300
15	Circulating water Conductivity	uS/cm	S/D	S/D	<1600
16	Boiler Make up WTR Conductivity	uS/cm	S/D	S/D	-
17	Cond.water CEP Conductivity	uS/cm	S/D	S/D	-
18	Treated waste WTR Conductivity	uS/cm	S/D	S/D	2,000
19	Service Water pH	pH	S/D	S/D	-
20	Circulating water pH	pH	S/D	S/D	8.0-8.5
21	Cond.water CEP pH	pH	S/D	S/D	9.3-10.2
22	Treated waste WTR pH	pH	S/D	S/D	6.5-8.5
23	Turbidity of CW Basin	NTU	S/D	S/D	20
HRSG #21 Emission Value @ 7%O2 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
25	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
26	CO	ppm	S/D	S/D	690 (690)
27	Opacity	%	S/D	S/D	20 (20)
HRSG #22 Emission Value @ 7%O2 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
29	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
30	CO	ppm	S/D	S/D	690 (690)
0	Opacity	%	S/D	S/D	20 (20)

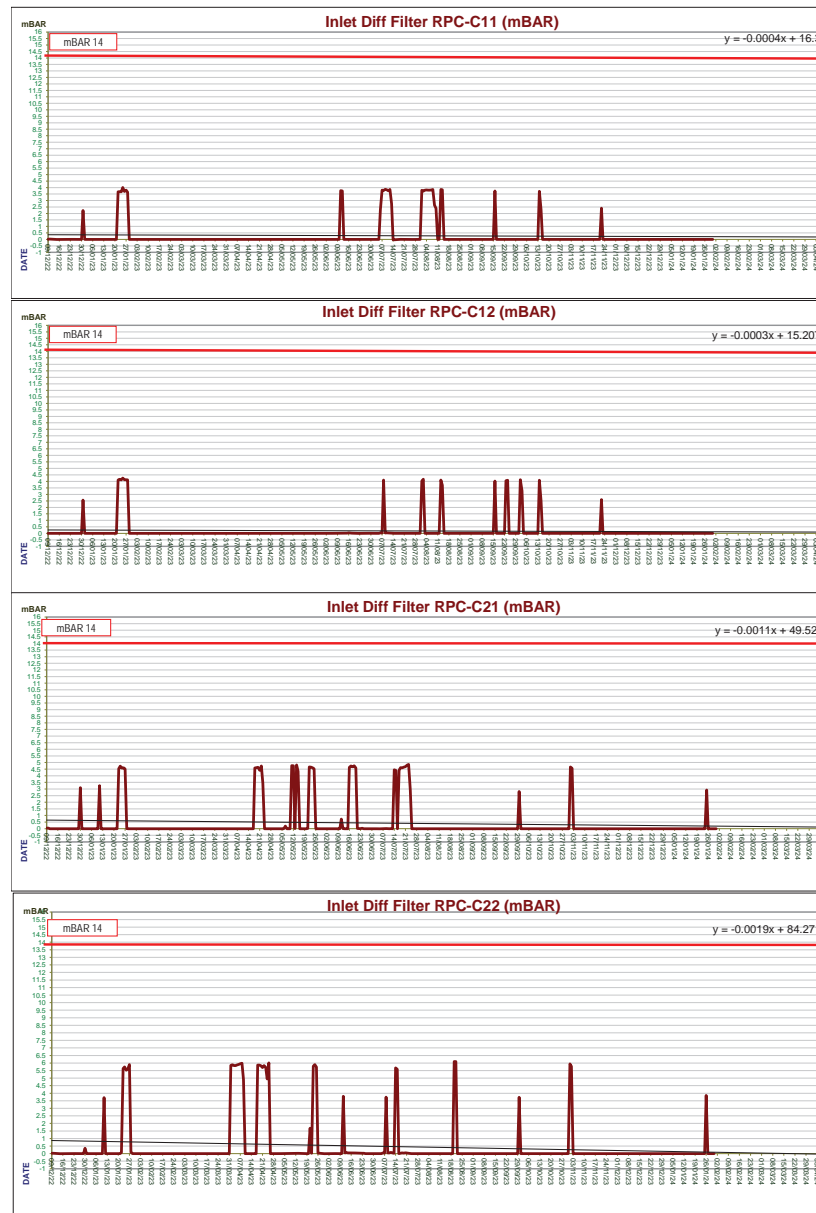
สำเนาเรียน : ชธค,อค-บพ,ช.อค-บพ,นwab-บพ,มปป.บพ,มาผ.บพ,มผบ.บพ.

Remark :



## GT AIR INLET FILTER

สำเนาเรียน : ชธค.,อค-บพ.,ช.อค-บพ.

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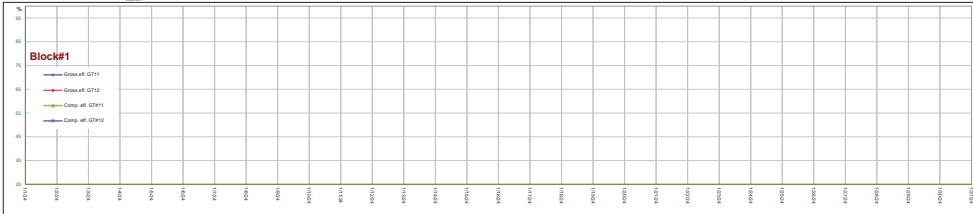
Remark : Replace Air Inlet filter GT#11 (20 Nov 2019) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#12 (18 Apr 2018) , Brand : Donaldson ; (Class E12D) ; Pre-Filter Brand : Freudenberg (Class F7) on 1 Jan 2021  
Replace Air Inlet filter GT#21 (20 Feb 2020) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#22 (17 Apr 2021) , Brand : Nordic (HEPA) (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7) on 28 Jul 2020



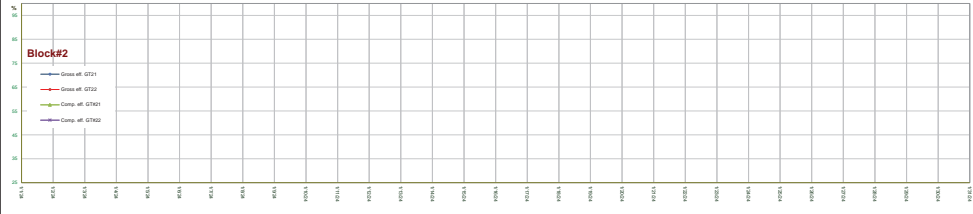
JANUARY 2024

RPCL GT Compressor Efficiency % and GT Gross Efficiency%

Unit: %  
Date: 2024-01-01 to 2024-01-31



DATE	1-1-24	2-1-24	3-1-24	4-1-24	5-1-24	6-1-24	7-1-24	8-1-24	9-1-24	10-1-24	11-1-24	12-1-24	13-1-24	14-1-24	15-1-24	16-1-24	17-1-24	18-1-24	19-1-24	20-1-24	21-1-24	22-1-24	23-1-24	24-1-24	25-1-24	26-1-24	27-1-24	28-1-24	29-1-24	30-1-24	31-1-24
Gross eff. GT11	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Gross eff. GT12	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Comp. eff. GT11	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Comp. eff. GT12	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Min. Blockout	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80



DATE	1-1-24	2-1-24	3-1-24	4-1-24	5-1-24	6-1-24	7-1-24	8-1-24	9-1-24	10-1-24	11-1-24	12-1-24	13-1-24	14-1-24	15-1-24	16-1-24	17-1-24	18-1-24	19-1-24	20-1-24	21-1-24	22-1-24	23-1-24	24-1-24	25-1-24	26-1-24	27-1-24	28-1-24	29-1-24	30-1-24	31-1-24
Gross eff. GT21	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Gross eff. GT22	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Comp. eff. GT21	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Comp. eff. GT22	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Min. Blockout	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80

Remark : Shutdown for Minor Inspection Block 2 on 3 Jan 2024 - 27 Jan 2024 : GT121 start up test on 26 Jan 2024 : GT122 start up test on 26 Jan 2024

Off-Line Blade Washing Date  
On-Line Blade Washing Date



RATCHABURI POWER MONTHLY PERFORMANCE REPORT

Monthly: Feb-24  
Duration: 1-Feb-24 29-Feb-24

ITEM	DESCRIPTION	CODE	UNIT	RP-C11	RP-C12	RP-C10	RP-CC1	RP-C21	RP-C22	RP-C20	RP-CC2	Total Plant
1	Gross Efficiency	-	%	30.54	31.00	-	46.63	-	-	-	-	46.44
2	Net Efficiency ( DCS )	-	%	28.40	30.68	-	44.71	-	-	-	-	44.53
3	Net Efficiency ( Reve. Meter & PTT)	-	%	28.80	31.12	-	45.34	-	-	-	-	45.12
4	Gross Heat Rate	-	kJ/kWh	11,788.61	11,612.11	-	7,721.11	-	-	-	-	7,751.68
5	Net Heat Rate ( DCS )	-	kJ/kWh	12,678.07	11,733.02	-	8,052.20	-	-	-	-	8,084.08
6	Net Heat Rate ( Reve. Meter & PTT)	-	kJ/kWh	12,501.23	11,569.36	-	7,939.88	-	-	-	-	7,978.17
7	Gross Maximum Capacity	GMC	MW	245.80	245.80	275.20	766.80	245.80	245.80	275.20	766.80	1,533.60
8	Net Contracted Capacity	NCC	MW	224.39	224.39	251.23	700.00	224.39	224.39	251.23	700.00	1,400.00
9	Gross Generation	GG	MWh	9,951.02	5,599.74	8,064.16	23,614.92	0.00	0.00	0.00	0.00	23,614.92
10	Output Factor	OF	%	69.76	68.97	50.50	53.07	0.00	0.00	0.00	0.00	-
11	Net Generation	NG	MWh	9,252.88	5,542.03	8,031.80	22,643.95	0.00	0.00	0.00	0.00	22,643.95
12	Net Generation (Reve.Meter)	NG	MWh	9,332.37	5,589.64	8,100.80	22,838.47	0.00	0.00	0.00	0.00	22,838.47
13	Dispatch Factor	DF	%	5.98	3.58	4.63	4.69	-	-	-	-	2.34
14	Station Service Power	-	MWh	698.14	57.71	-	1,230.49	0.00	0.00	-	985.08	2215.57
15	Station Service Power Percentage	-	%	7.02	1.03	-	5.21	-	-	-	-	-
16	Period Hour	PH	Hr	696.00	696.00	696.00	696.00	696.00	696.00	696.00	696.00	-
17	Available Hour	AH	Hr	696.00	696.00	696.00	696.00	696.00	696.00	696.00	696.00	-
18	Availability Factor	AF	%	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	-
19	Service Hour	SH	Hr	58.03	33.03	58.03	58.03	0.57	0.57	0.57	0.57	58.60
20	Service Factor	SF	%	8.34	4.75	8.34	8.34	0.08	0.08	0.08	0.08	-
21	Planned Outage Hour	POH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
22	Planned Outage Factor	POF	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
23	Unplanned Outage Hour	UOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
24	Unplanned Outage Factor	UOF	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
25	Maintenance Outage Hour	MOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
26	Forced Outage Hour	FOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
27	Equivalent Unit Derated Hour	EUDH	Hr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	Equivalent Available Hour	EAH	Hr	696.000	696.000	696.000	696.000	696.000	696.000	696.000	696.000	696.000
29	Equivalent Available Factor	EAF	%	-	-	-	100.00	-	-	-	100.00	-
30	Contract Available Factor (For EGAT PA)	-	%	-	-	-	100.00	-	-	-	100.00	-
31	Reliability Factor	RF	%	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	-
32	Equivalent Operating Hour	EOH	Hr	137.00	89.00	-	-	40.00	41.00	-	-	-
33	Contract Available Hour	CAH	Hr	-	-	-	696.00	-	-	-	696.00	-
34	Fuel Gas Consumption	-	MMSCF	132.13	73.24	-	205.37	0.40	0.41	-	0.81	206.18
35	Fuel Oil Consumption	-	Ton	0.00	0.00	-	0.00	0.00	0.00	-	0.00	0.00
36	Energy Consumption	-	MMBTU	111,187.17	61,631.61	-	172,819	340.77	343.45	-	684	173,503
37	Fuel Gas Energy Consumption (PTT)	-	MMBTU	110,578.06	61,293.98	-	171,872	412.86	416.11	-	829	172,701
38	Gross Fuel Cost Rate	-	Baht/kWh	3.39	3.34	-	2.22	-	-	-	-	2.23
39	Net Fuel Cost Rate	-	Baht/kWh	3.65	3.38	-	2.32	-	-	-	-	2.33
40	Gross Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	2.22	-	-	-	-	2.23
41	Net Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	2.32	-	-	-	-	2.33
42	Gross Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
43	Net Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
44	Net MWh sent out (revenue meter)	-	MWh	-	-	-	22,838.47	-	-	-	0.00	22,838.47
45	Net MVarh sent out (revenue meter)	-	MVarh	-	-	-	798.35	-	-	-	61.31	859.66
46	Net MWh Import (revenue meter)	-	MWh	-	-	-	1,165.63	-	-	-	725.57	1,891.20
47	Net MVarh Import (revenue meter)	-	MWh	-	-	-	2385.951	-	-	-	456.166	2842.117
48	SOLAR GENERATE POWER (Inverter)	-	MWh	-	-	-	-	-	-	-	-	519.02
Fuel Gas Heating Value (HHVsat)				841.5043	Btu/SCF	Cost		303.51	Baht/MMBTU			
Fuel Oil Heating Value (HHV)				45895.7	kJ/kg	Cost		28.178	Baht/Liter			

Remark : -Item 28 Calculated Block % Contract Available Factor = (CAH / PH) \*100 Used for EGAT PA.

-Dispatch factor calculation revised using net MWh from data GYR instead of net MWh from DCS and weight for each GT and ST (since Jan. 2013)

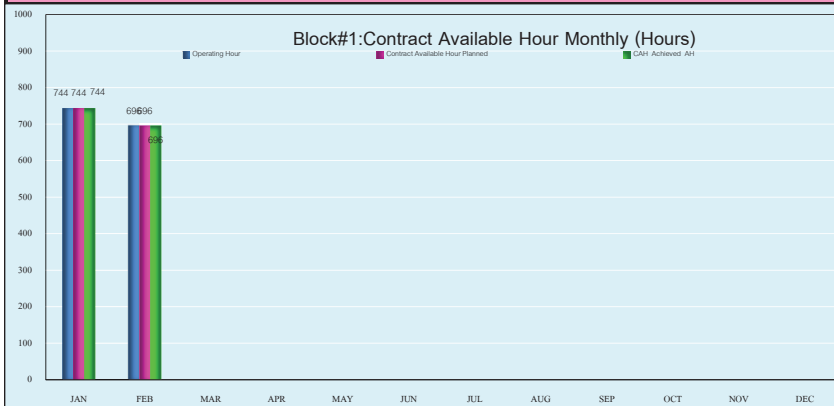
Reference : Operation and Maintenance Agreement Schedule 8. appendix 3

Efficiency Engineer

Reporter

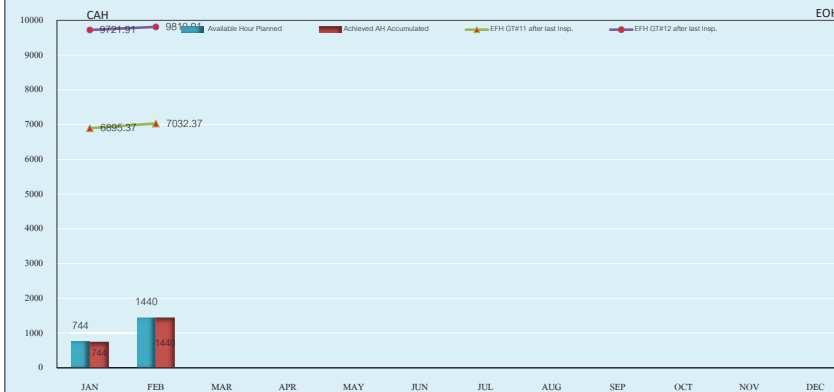


Contract Available Hours & Equivalent Operating Hours Summary



HOURS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN-FEB
Operating Hour	744	696											1440
Contract Available Hour Planned	744	696											1440
CAH Achieved AH	744	696											1440
EFH GT#11	41	137											178
EFH GT#12	41	89											130

Block#1: CAH & EOH Accumulative (Hours)



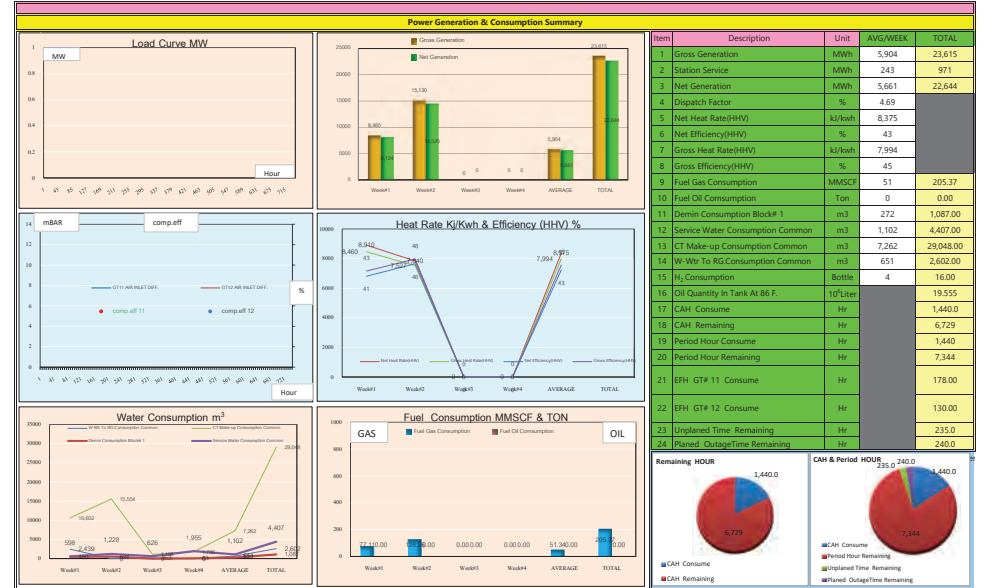
Accumulative Hours	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Operating Hour	744	1440											
Available Hour Planned	744	1440											
CAH Achieved AH	744	1440											
EFH GT#11	83488.78	83625.78											
EFH GT#11 after last Insp.	6895.37	7032.37											
EFH GT#12	87088.09	87177.09											
EFH GT#12 after last Insp.	9721.91	9810.91											

Reference : RPCL 7 Years Planned Revise\_0/2017\_(20 Jul 2017)

Remark :

วันที่รายงาน

หน้า 01 จาก 01



Remark : Item 25 Unplanned Time Remaining = Period Hour remain - CAH Remain - Plan-Outage - Off line washing

วันที่รายงาน



FROM PLANNING MANAGER  
Mr.Surachet Saranasuksawat

FEBRURY 2024

Plant & Balance of Plant Condition Summary					
Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#11 Diff. Pressure Inlet Air Filter	mBAR	1.10	4.04	14
2	GT#12 Diff. Pressure Inlet Air Filter	mBAR	0.70	4.15	14
3	Condenser Inlet Temp.	C	26.16	30.04	Diff. <9 -10 C
4	Condenser Outlet Temp.	C	27.70	38.69	
5	Sum of current CT fan	A	397.28	3,113.16	
6	CT make up pump A Diff. Pressure (common)	BAR	0.02	0.54	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	0.00	0.07	0.7
8	CT make up Cleaning Strainer	Time		0.00	2
9	Auxiliary CWP A Diff. Pressure	BAR	0.07	0.08	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	0.00	0.00	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	0.08	0.09	0.18
12	Close Cooling water Inlet Temp.	C	28.25	36.38	42
13	Close Cooling water Outlet Temp.	C	27.83	33.22	38
14	Service Water Conductivity	uS/cm	296.00	297.00	300
15	Circulating water Conductivity	uS/cm	853.00	853.00	<1600
16	Boiler Make up WTR Conductivity	uS/cm	0.78	0.78	-
17	Cond.water CEP Conductivity	uS/cm	16.08	16.08	-
18	Treated waste WTR Conductivity	uS/cm	N/A	N/A	2,000
19	Service Water pH	pH	7.68	7.78	-
20	Circulating water pH	pH	8.39	8.39	8.0-8.5
21	Cond.water CEP pH	pH	9.72	9.72	9.3-10.2
22	Treated waste WTR pH	pH	N/A	N/A	6.5-8.5
23	Turbidity of CW Basin	NTU	5.81	5.81	20
HRSG #11 Emission Value @ 7%O2 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	64.05	78.55	96 (152)
25	SO <sub>x</sub>	ppm	3.24	4.33	18 (18.8)
26	CO	ppm	5.24	7.40	690 (690)
27	Opacity	%	2.52	5.16	20 (20)
HRSG #12 Emission Value @ 7%O2 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	58.83	75.17	96 (152)
29	SO <sub>x</sub>	ppm	1.31	1.86	18 (18.8)
30	CO	ppm	3.88	6.12	690 (690)
0	Opacity	%	1.29	3.66	20 (20)

สำเนาเรียน : ชธค,อค-บพ,ช.อค-บพ,นwab-บพ,มปป.บพ,มาผ.บพ,มผบ.บพ.

Remark : Item 18 and 22 no data because waste water is not sent to RG

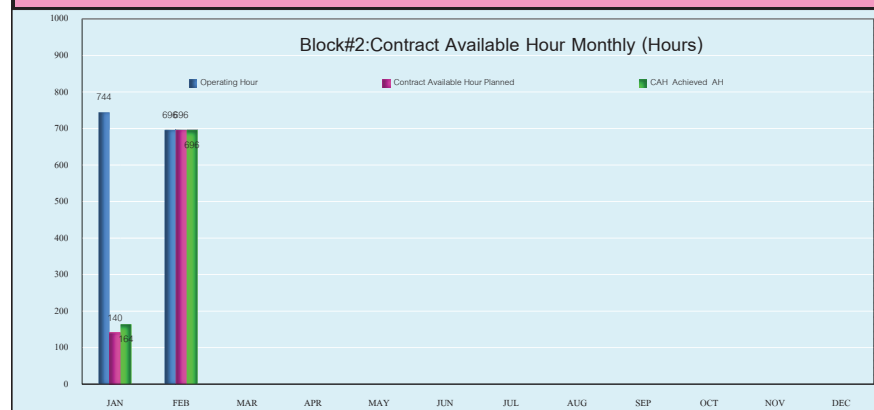


**FEBRUARY**  
2024

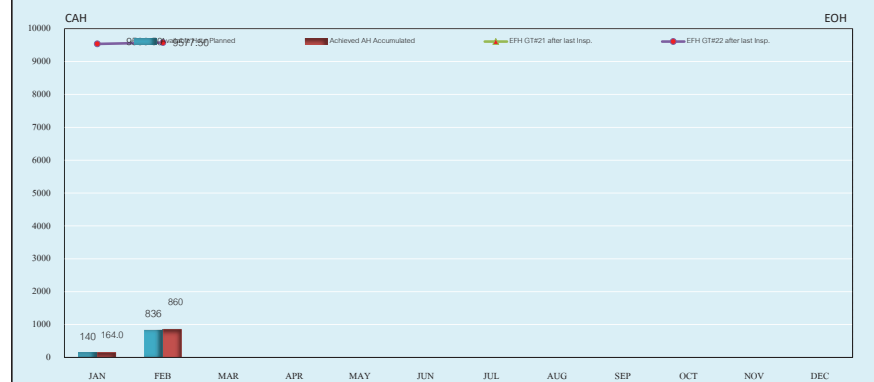
FROM PLANNING MANAGER  
Mr.Surachet Saranasuksawat

สำนักฯ ชวค.๖๓-บพ.๖.๖๓-บพ.  
แนว-บพ.,มปบ.บพ.,มวพ.บพ.,มคบ.บพ.

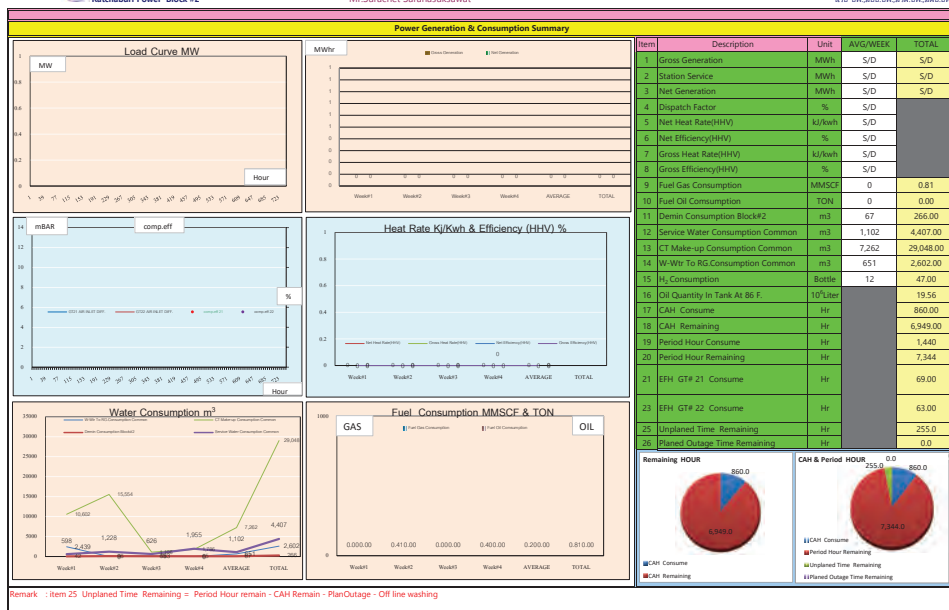
### Contract Available Hours & Equivalent Operating Hours Summary

[illegible]

## Block#2: CAH &amp; EOH Accumulative (Hours)

[illegible]

Reference : RPCL 7 Years Planned Revise\_0/2017\_(20 Jul 2017)



วันที่ 01/02/24

Plant & Balance of Plant Condition Summary					
Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#21 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
2	GT#22 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
3	Condenser Inlet Temp.	C	S/D	S/D	Diff.<9 -10 C
4	Condenser Outlet Temp.	C	S/D	S/D	
5	Sum of current CT fan	A	S/D	S/D	3,798
6	CT make up pump A Diff. Pressure (common)	BAR	S/D	S/D	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	S/D	S/D	0.7
8	CT make up Cleaning Strainer	Time		S/D	2
9	Auxiliary CWP A Diff. Pressure	BAR	S/D	S/D	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	S/D	S/D	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	S/D	S/D	0.18
12	Close Cooling water Inlet Temp.	C	S/D	S/D	42
13	Close Cooling water Outlet Temp.	C	S/D	S/D	38
14	Service Water Conductivity	uS/cm	S/D	S/D	300
15	Circulating water Conductivity	uS/cm	S/D	S/D	<1600
16	Boiler Make up WTR Conductivity	uS/cm	S/D	S/D	-
17	Cond.water CEP Conductivity	uS/cm	S/D	S/D	-
18	Treated waste WTR Conductivity	uS/cm	S/D	S/D	2,000
19	Service Water pH	pH	S/D	S/D	-
20	Circulating water pH	pH	S/D	S/D	8.0-8.5
21	Cond.water CEP pH	pH	S/D	S/D	9.3-10.2
22	Treated waste WTR pH	pH	S/D	S/D	6.5-8.5
23	Turbidity of CW Basin	NTU	S/D	S/D	20
HRSG #21 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
25	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
26	CO	ppm	S/D	S/D	690 (690)
27	Opacity	%	S/D	S/D	20 (20)
HRSG #22 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
29	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
30	CO	ppm	S/D	S/D	690 (690)
0	Opacity	%	S/D	S/D	20 (20)

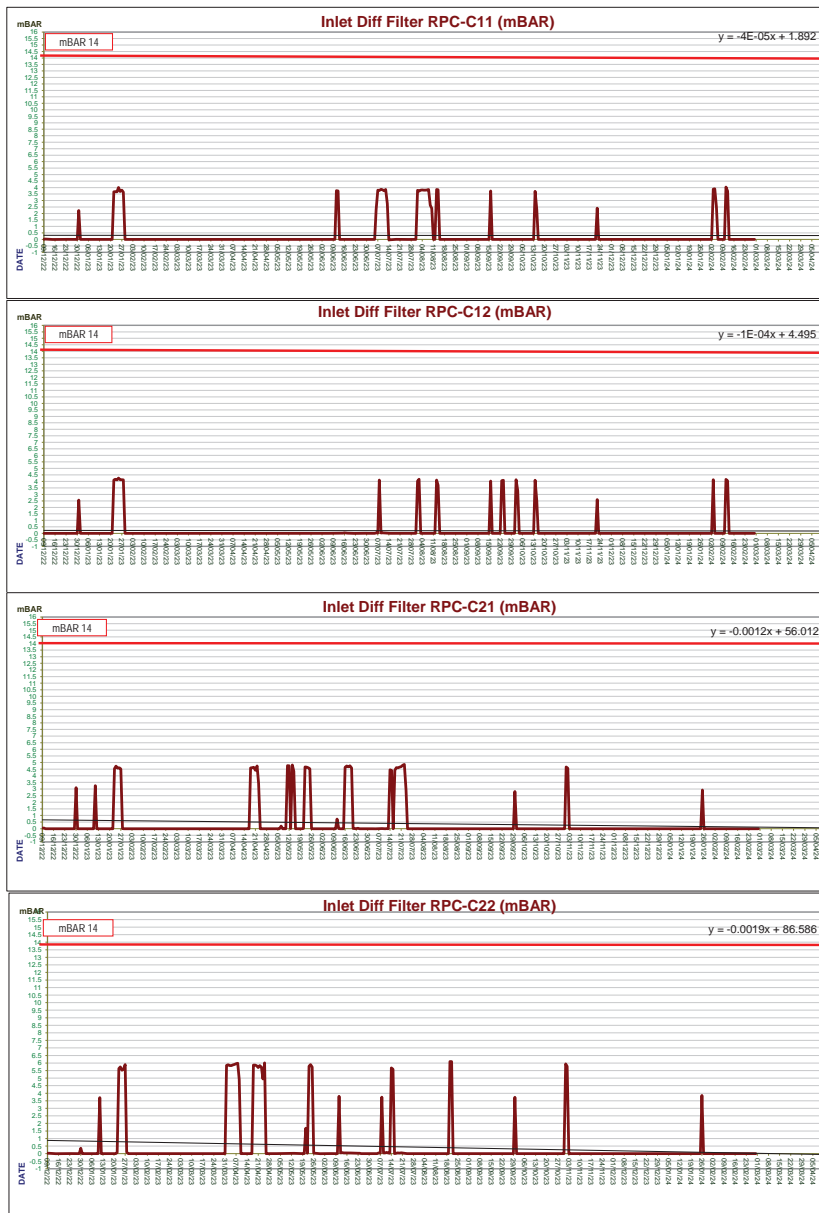
สำหรับรายงาน : 0004, 001-004, 01, 001-004, 0010-001, 0010, 001, 0010, 001, 0010, 001,

Remark :

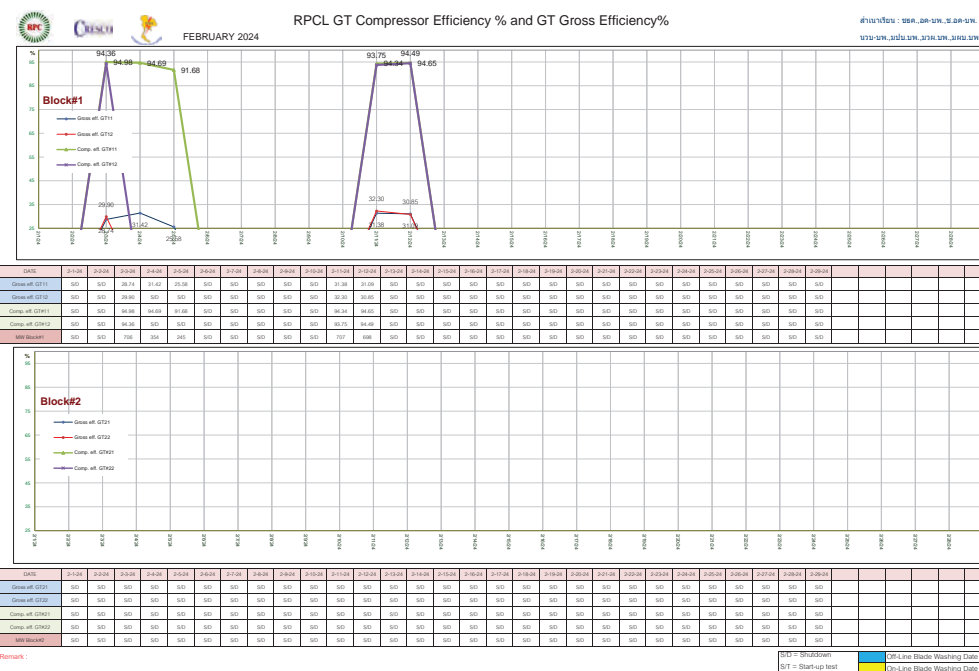
## GT AIR INLET FILTER

สำเนาเรียน : ชธค.,อค-บพ.,ช.อค-บพ.

פ.ע.ע.מ., פ.ע.פ.מ., פ.ע.ע.פ.מ., פ.ע.ע.פ.מ.



Remark: Replace Air Inlet filter GT#11 (20 Nov 2019) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#12 (18 Apr 2018) , Brand : Donaldson ; (Class E12D) ; Pre-Filter Brand : Freudenberg (Class F7) on 1 Jan 2021  
Replace Air Inlet filter GT#21 (20 Feb 2020) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#22 (17 Apr 2021) , Brand : Nordic ; (HEPA) (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7) on 28 Jul 2020





## RATCHABURI POWER MONTHLY PERFORMANCE REPORT

Monthly: Jun-24  
Duration: 1-Jun-24 30-Jun-24

ITEM	DESCRIPTION	CODE	UNIT	RP-C11	RP-C12	RP-C10	RP-CC1	RP-C21	RP-C22	RP-C20	RP-CC2	Total Plant
1	Gross Efficiency	-	%	-	-	-	-	-	30.00	-	45.85	44.52
2	Net Efficiency ( DCS )	-	%	-	-	-	-	-	29.42	-	44.06	42.79
3	Net Efficiency ( Reve. Meter & PTT)	-	%	-	-	-	-	-	29.76	-	44.57	43.29
4	Gross Heat Rate	-	kJ/kWh	-	-	-	-	-	11,999.78	-	7,852.32	8,085.40
5	Net Heat Rate ( DCS )	-	kJ/kWh	-	-	-	-	-	12,236.53	-	8,170.73	8,413.26
6	Net Heat Rate ( Reve. Meter & PTT)	-	kJ/kWh	-	-	-	-	-	12,095.21	-	8,076.36	8,315.86
7	Gross Maximum Capacity	GMC	MW	245.80	245.80	275.20	766.80	245.80	245.80	275.20	766.80	1,533.60
8	Net Contracted Capacity	NCC	MW	224.39	224.39	251.23	700.00	224.39	224.39	251.23	700.00	1,400.00
9	Gross Generation	GG	MWh	0.00	0.00	0.00	0.00	0.00	5,371.08	2,922.98	8,290.77	8,290.77
10	Output Factor	OF	%	0.00	0.00	0.00	0.00	0.00	66.12	31.15	31.71	-
11	Net Generation	NG	MWh	0.00	0.00	0.00	0.00	0.00	5,267.16	2,911.24	7,967.69	7,967.69
12	Net Generation (Reve.Meter)	NG	MWh	0.00	0.00	0.00	0.00	0.00	5,281.84	2,919.35	7,989.90	7,989.90
13	Dispatch Factor	DF	%	-	-	-	-	-	3.27	1.61	1.59	0.79
14	Station Service Power	-	MWh	0.00	0.00	-	331.81	0.00	103.92	-	411.25	743.06
15	Station Service Power Percentage	-	%	-	-	-	-	-	1.93	-	4.96	8.96
16	Period Hour	PH	Hr	720.00	720.00	720.00	720.00	720.00	720.00	720.00	720.00	-
17	Available Hour	AH	Hr	720.00	720.00	720.00	720.00	720.00	720.00	720.00	720.00	-
18	Availability Factor	AF	%	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	-
19	Service Hour	SH	Hr	1.63	1.63	1.63	1.63	1.05	33.05	34.10	34.10	35.23
20	Service Factor	SF	%	0.23	0.23	0.23	0.23	0.15	4.59	4.74	4.74	-
21	Planned Outage Hour	POH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
22	Planned Outage Factor	POF	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
23	Unplanned Outage Hour	UOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
24	Unplanned Outage Factor	UOF	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
25	Maintenance Outage Hour	MOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
26	Forced Outage Hour	FOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
27	Equivalent Unit Derated Hour	EUDH	Hr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	Equivalent Available Hour	EAH	Hr	720.000	720.000	720.000	720.000	720.000	720.000	720.000	720.000	720.000
29	Equivalent Available Factor	EAF	%	-	-	-	100.00	-	-	-	100.00	-
30	Contract Available Factor (For EGAT PA)	-	%	-	-	-	100.00	-	-	-	100.00	-
31	Reliability Factor	RF	%	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	-
32	Equivalent Operating Hour	EOH	Hr	61.00	61.00	-	-	41.00	93.00	-	-	-
33	Contract Available Hour	CAH	Hr	-	-	-	720.00	-	-	-	720.00	-
34	Fuel Gas Consumption	-	MMSCF	1.08	1.10	-	2.18	0.73	72.81	-	73.55	75.73
35	Fuel Oil Consumption	-	Ton	0.00	0.00	-	0.00	0.00	0.00	-	0.00	0.00
36	Energy Consumption	-	MMBTU	909.80	921.75	-	1,832	616.14	61,088.49	-	61,705	63,536
37	Fuel Gas Energy Consumption (PTT)	-	MMBTU	900.94	912.76	-	1,814	610.72	60,551.28	-	61,162	62,976
38	Gross Fuel Cost Rate	-	Baht/kWh	-	-	-	-	-	3.47	-	2.27	2.34
39	Net Fuel Cost Rate	-	Baht/kWh	-	-	-	-	-	3.54	-	2.36	2.43
40	Gross Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	2.27	2.34
41	Net Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	2.36	2.43
42	Gross Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
43	Net Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
44	Net MWh sent out (revenue meter)	-	MWh	-	-	-	0.00	-	-	-	7,989.90	7,989.90
45	Net MVArh sent out (revenue meter)	-	MVArh	-	-	-	220.97	-	-	-	14.05	235.03
46	Net MWh Import (revenue meter)	-	MWh	-	-	-	243.65	-	-	-	1,750.85	1,994.51
47	Net MVArh Import (revenue meter)	-	MWh	-	-	-	9.933	-	-	-	1479.322	1489.255
48	SOLAR GENERATE POWER (Inverter)	-	MWh	-	-	-	-	-	-	-	-	176.32
Fuel Gas Heating Value (HHVsat)				838.9698	Btu/SCF	Cost		305.10	Baht/MMBtu			
Fuel Oil Heating Value (HHV)				45895.7	kJ/kg	Cost		28.178	Baht/Liter			

Remark : -Item 28 Calculated Block % Contract Available Factor = (CAH / PH) \*100 Used for EGAT PA.

-Dispatch factor calculation revised using net MWh from data GYR instead of net MWh from DCS and weight for each GT and ST (since Jan. 2013)

Reference : Operation and Maintenance Agreement Schedule 8. appendix 3

Efficiency Engineer

Reporter



## RATCHABURI POWER MONTHLY PERFORMANCE REPORT

Monthly: Mar-24  
Duration: 1-Mar-24 31-Mar-24

ITEM	DESCRIPTION	CODE	UNIT	RP-C11	RP-C12	RP-C10	RP-CC1	RP-C21	RP-C22	RP-C20	RP-CC2	Total Plant
1	Gross Efficiency	-	%	31.20	31.35	-	48.41	-	-	-	-	48.11
2	Net Efficiency ( DCS )	-	%	28.76	31.03	-	46.62	-	-	-	-	46.33
3	Net Efficiency ( Reve. Meter & PTT)	-	%	28.98	31.27	-	46.98	-	-	-	-	46.60
4	Gross Heat Rate	-	kJ/kWh	11,538.01	11,484.43	-	7,435.75	-	-	-	-	7,482.59
5	Net Heat Rate ( DCS )	-	kJ/kWh	12,519.48	11,601.33	-	7,721.63	-	-	-	-	7,770.28
6	Net Heat Rate ( Reve. Meter & PTT)	-	kJ/kWh	12,423.73	11,512.60	-	7,662.58	-	-	-	-	7,725.15
7	Gross Maximum Capacity	GMC	MW	245.80	245.80	275.20	766.80	245.80	245.80	275.20	766.80	1,533.60
8	Net Contracted Capacity	NCC	MW	224.39	224.39	251.23	700.00	224.39	224.39	251.23	700.00	1,400.00
9	Gross Generation	GG	MWh	6,903.91	6,808.16	7,515.82	21,227.89	0.00	0.00	0.00	0.00	21,227.89
10	Output Factor	OF	%	71.02	74.66	69.05	70.00	0.00	0.00	0.00	0.00	-
11	Net Generation	NG	MWh	6,362.68	6,739.56	7,489.82	20,441.95	0.00	0.00	0.00	0.00	20,441.95
12	Net Generation (Reve.Meter)	NG	MWh	6,390.71	6,769.25	7,522.81	20,532.01	0.00	0.00	0.00	0.00	20,532.01
13	Dispatch Factor	DF	%	4.05	4.29	4.26	4.17	-	-	-	-	2.03
14	Station Service Power	-	MWh	541.23	68.60	-	849.70	0.00	0.00	-	921.76	1771.45
15	Station Service Power Percentage	-	%	7.84	1.01	-	4.00	-	-	-	-	-
16	Period Hour	PH	Hr	744.00	744.00	744.00	744.00	744.00	744.00	744.00	744.00	-
17	Available Hour	AH	Hr	703.00	703.00	703.00	703.00	744.00	744.00	744.00	744.00	-
18	Availability Factor	AF	%	94.49	94.49	94.49	94.49	100.00	100.00	100.00	100.00	-
19	Service Hour	SH	Hr	39.55	37.10	39.55	39.55	1.10	1.10	1.65	1.65	40.65
20	Service Factor	SF	%	5.32	4.99	5.32	5.32	0.15	0.15	0.22	0.22	-
21	Planned Outage Hour	POH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
22	Planned Outage Factor	POF	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
23	Unplanned Outage Hour	UOH	Hr	41.00	41.00	41.00	41.00	0.00	0.00	0.00	0.00	-
24	Unplanned Outage Factor	UOF	%	5.51	5.51	5.51	5.51	0.00	0.00	0.00	0.00	-
25	Maintenance Outage Hour	MOH	Hr	41.00	41.00	41.00	41.00	0.00	0.00	0.00	0.00	-
26	Forced Outage Hour	FOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
27	Equivalent Unit Derated Hour	EUDH	Hr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	Equivalent Available Hour	EAH	Hr	703.000	703.000	703.000	703.000	744.000	744.000	744.000	744.000	723.500
29	Equivalent Available Factor	EAF	%	-	-	-	94.49	-	-	-	100.00	-
30	Contract Available Factor (For EGAT PA)	-	%	-	-	-	94.49	-	-	-	100.00	-
31	Reliability Factor	RF	%	49.10	47.50	49.10	49.10	100.00	100.00	100.00	100.00	-
32	Equivalent Operating Hour	EOH	Hr	78.00	76.00	-	-	41.00	40.00	-	-	-
33	Contract Available Hour	CAH	Hr	-	-	-	703.00	-	-	-	744.00	-
34	Fuel Gas Consumption	-	MMSCF	89.79	88.13	-	177.92	0.56	0.56	-	1.12	179.04
35	Fuel Oil Consumption	-	Ton	0.00	0.00	-	0.00	0.00	0.00	-	0.00	0.00
36	Energy Consumption	-	MMBTU	75,500.61	74,107.78	-	149,608	469.40	473.09	-	942	150,551
37	Fuel Gas Energy Consumption (PTT)	-	MMBTU	75,253.27	73,865.01	-	149,118	606.48	611.25	-	1,218	150,336
38	Gross Fuel Cost Rate	-	Baht/kWh	3.74	3.72	-	2.41	-	-	-	-	2.42
39	Net Fuel Cost Rate	-	Baht/kWh	4.06	3.76	-	2.50	-	-	-	-	2.52
40	Gross Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	2.41	-	-	-	-	2.42
41	Net Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	2.50	-	-	-	-	2.52
42	Gross Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
43	Net Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
44	Net MWh sent out (revenue meter)	-	MWh	-	-	-	20,532.01	-	-	-	0.00	20,532.01
45	Net MVArh sent out (revenue meter)	-	MVArh	-	-	-	188.91	-	-	-	49.97	238.88
46	Net MWh Import (revenue meter)	-	MWh	-	-	-	1,164.14	-	-	-	858.00	2,022.15
47	Net MVArh Import (revenue meter)	-	MWh	-	-	-	2464.286	-	-	-	582.632	3046.918
48	SOLAR GENERATE POWER (Inverter)	-	MWh	-	-	-	-	-	-	-	-	127.51
Fuel Gas Heating Value (HHVsat)				840.8556	Btu/SCF	Cost		341.74	Baht/MMBtu			
Fuel Oil Heating Value (HHV)				45895.7	kJ/kg	Cost		28.178	Baht/Liter			

Remark : -Item 28 Calculated Block % Contract Available Factor = (CAH / PH) \*100 Used for EGAT PA.

-Dispatch factor calculation revised using net MWh from data GYR instead of net MWh from DCS and weight for each GT and ST (since Jan. 2013)

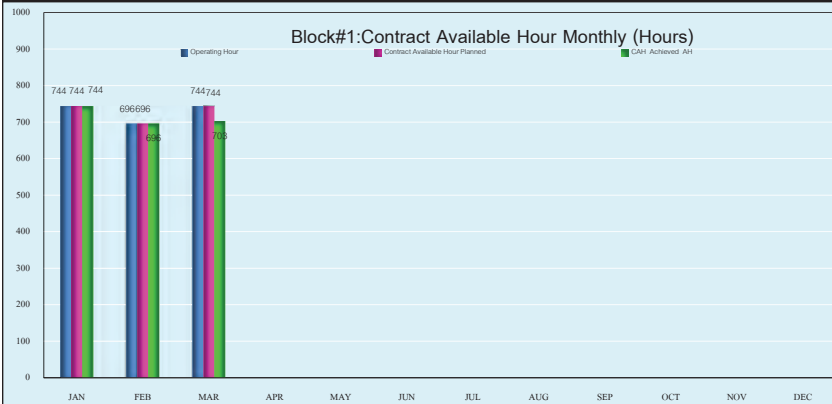
Reference : Operation and Maintenance Agreement Schedule 8. appendix 3

Efficiency Engineer

Reporter

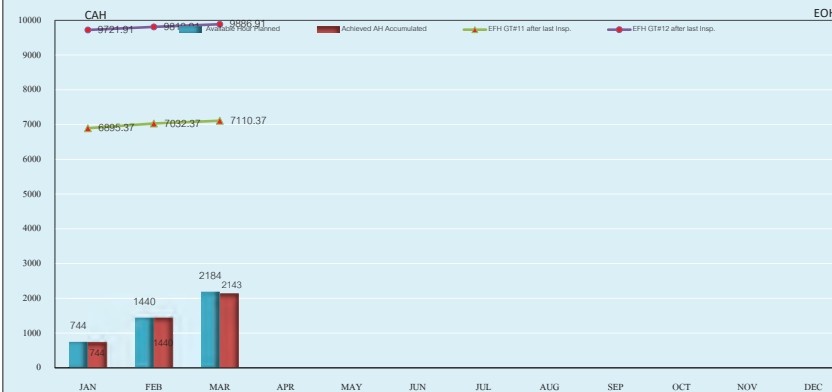


Contract Available Hours & Equivalent Operating Hours Summary



HOURS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN-MAR
Operating Hour	744	696	744										2184
Contract Available Hour Planned	744	696	744										2184
CAH Achieved AH	744	696	703										2143
EFH GT#11	41	137	78										256
EFH GT#12	41	89	76										206

Block#1: CAH & EOH Accumulative (Hours)



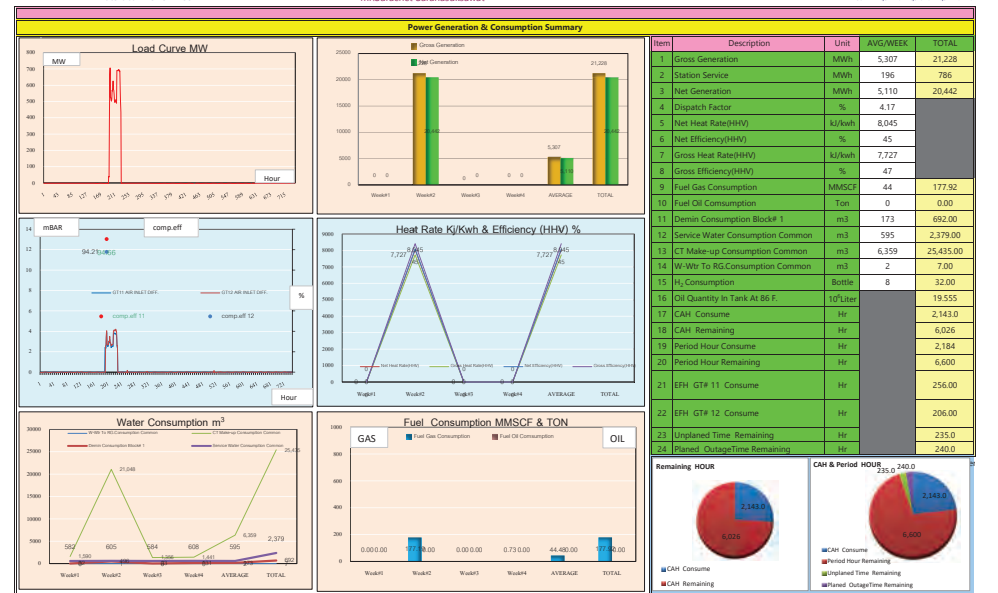
Accumulative Hours	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Operating Hour	744	1440	2184									
Available Hour Planned	744	1440	2184									
CAH Achieved AH	744	1440	2143									
EFH GT#11	83488.78	83625.78	83703.78									
EFH GT#11 after last Insp.	6895.37	7032.37	7110.37									
EFH GT#12	87088.09	87177.09	87253.09									
EFH GT#12 after last Insp.	9721.91	9810.91	9886.91									

Reference : RPCL 7 Years Planned Revise\_0/2017\_(20 Jul 2017)

Remark :

วันที่รายงาน

หน้า 1 จาก 1



Remark : item 25 Unplanned Time Remaining = Period Hour remain - CAH Remain - Plan-Outage - Off line washing

วันที่รายงาน



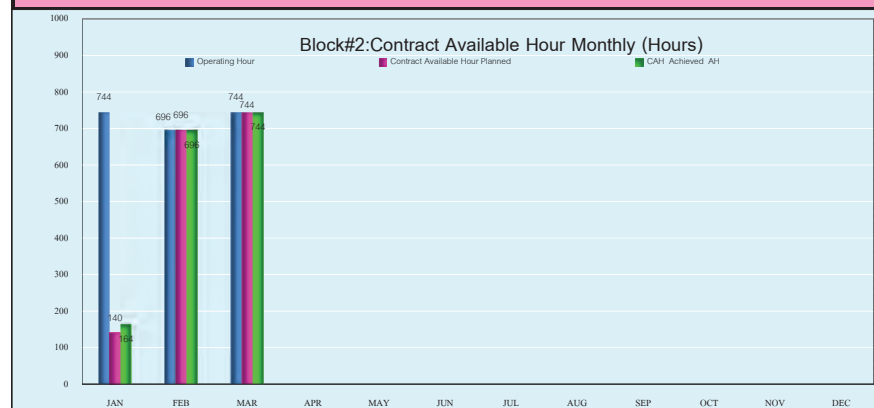
MARCH 2024

Plant & Balance of Plant Condition Summary					
Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#11 Diff. Pressure Inlet Air Filter	mBAR	1.09	3.88	14
2	GT#12 Diff. Pressure Inlet Air Filter	mBAR	1.09	4.21	14
3	Condenser Inlet Temp.	C	28.67	33.32	Diff.<9 -10 C
4	Condenser Outlet Temp.	C	30.28	42.08	
5	Sum of current CT fan	A	348.51	3,119.57	
6	CT make up pump A Diff. Pressure (common)	BAR	0.02	0.65	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	0.03	0.65	0.7
8	CT make up Cleaning Strainer	Time		0.00	2
9	Auxiliary CWP A Diff. Pressure	BAR	0.07	0.08	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	0.07	0.08	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	Stan By	Stan By	0.18
12	Close Cooling water Inlet Temp.	C	30.20	39.48	42
13	Close Cooling water Outlet Temp.	C	29.78	36.38	38
14	Service Water Conductivity	uS/cm	294.00	295.00	300
15	Circulating water Conductivity	uS/cm	N/A	N/A	<1600
16	Boiler Make up WTR Conductivity	uS/cm	N/A	N/A	-
17	Cond.water CEP Conductivity	uS/cm	N/A	N/A	-
18	Treated waste WTR Conductivity	uS/cm	N/A	N/A	2,000
19	Service Water pH	pH	7.50	7.52	-
20	Circulating water pH	pH	N/A	N/A	8.0-8.5
21	Cond.water CEP pH	pH	N/A	N/A	9.3-10.2
22	Treated waste WTR pH	pH	N/A	N/A	6.5-8.5
23	Turbidity of CW Basin	NTU	N/A	N/A	20
HRSG #11 Emission Value @ 7%O2 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	56.33	76.50	96 (152)
25	SO <sub>x</sub>	ppm	3.74	4.47	18 (18.8)
26	CO	ppm	5.51	7.93	690 (690)
27	Opacity	%	1.91	4.45	20 (20)
HRSG #12 Emission Value @ 7%O2 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	51.07	72.72	96 (152)
29	SO <sub>x</sub>	ppm	1.66	2.30	18 (18.8)
30	CO	ppm	3.42	5.99	690 (690)
0	Opacity	%	1.49	3.04	20 (20)

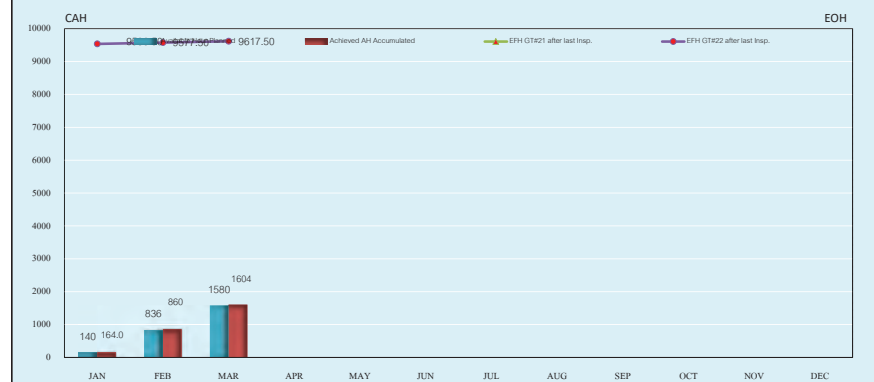
สำเนาเรียน : ชธค.,อค-บพ.,ช.อค-บพ.,นwab-บพ.,มปป-บพ.,มวผ.บพ.,มผบ.บพ.

Remark : Item 15-23 no data from the Chemical department

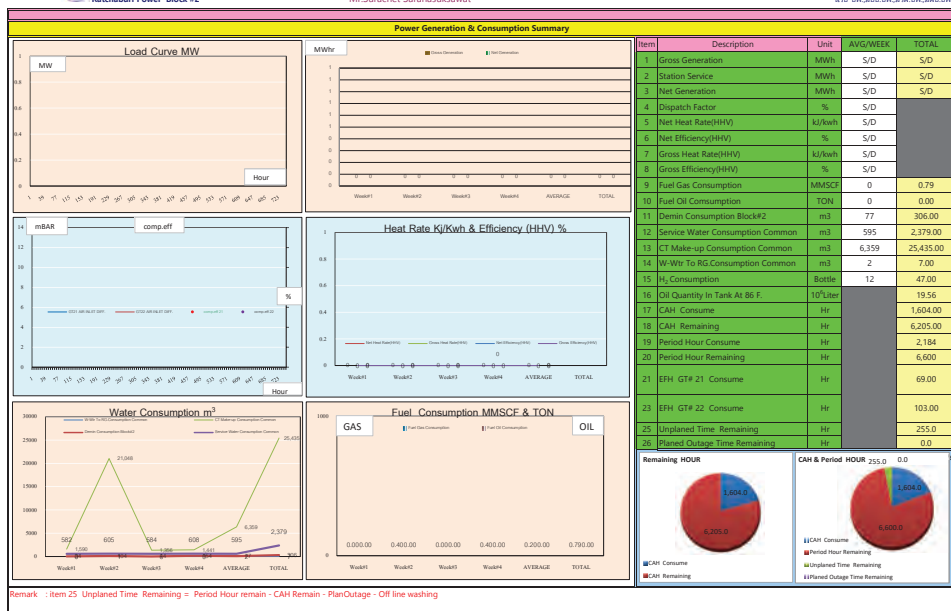
### Contract Available Hours & Equivalent Operating Hours Summary

[illegible]

## Block#2: CAH &amp; EOH Accumulative (Hours)

[illegible]

Reference : RPCL 7 Years Planned Revise\_0/2017\_(20 Jul 2017)



Remark : Item 25 Unplanned Time Remaining = Period Hour remain - CAH Remain - PlanOutage - Off line washing

วันที่รายงาน

Plant & Balance of Plant Condition Summary					
Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#21 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
2	GT#22 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
3	Condenser Inlet Temp.	C	S/D	S/D	Diff.<9 -10 C
4	Condenser Outlet Temp.	C	S/D	S/D	
5	Sum of current CT fan	A	S/D	S/D	3,798
6	CT make up pump A Diff. Pressure (common)	BAR	S/D	S/D	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	S/D	S/D	0.7
8	CT make up Cleaning Strainer	Time		S/D	2
9	Auxiliary CWP A Diff. Pressure	BAR	S/D	S/D	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	S/D	S/D	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	S/D	S/D	0.18
12	Close Cooling water Inlet Temp.	C	S/D	S/D	42
13	Close Cooling water Outlet Temp.	C	S/D	S/D	38
14	Service Water Conductivity	uS/cm	S/D	S/D	300
15	Circulating water Conductivity	uS/cm	S/D	S/D	<1600
16	Boiler Make up WTR Conductivity	uS/cm	S/D	S/D	-
17	Cond.water CEP Conductivity	uS/cm	S/D	S/D	-
18	Treated waste WTR Conductivity	uS/cm	S/D	S/D	2,000
19	Service Water pH	pH	S/D	S/D	-
20	Circulating water pH	pH	S/D	S/D	8.0-8.5
21	Cond.water CEP pH	pH	S/D	S/D	9.3-10.2
22	Treated waste WTR pH	pH	S/D	S/D	6.5-8.5
23	Turbidity of CW Basin	NTU	S/D	S/D	20
HRSG #21 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
25	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
26	CO	ppm	S/D	S/D	690 (690)
27	Opacity	%	S/D	S/D	20 (20)
HRSG #22 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
29	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
30	CO	ppm	S/D	S/D	690 (690)
0	Opacity	%	S/D	S/D	20 (20)

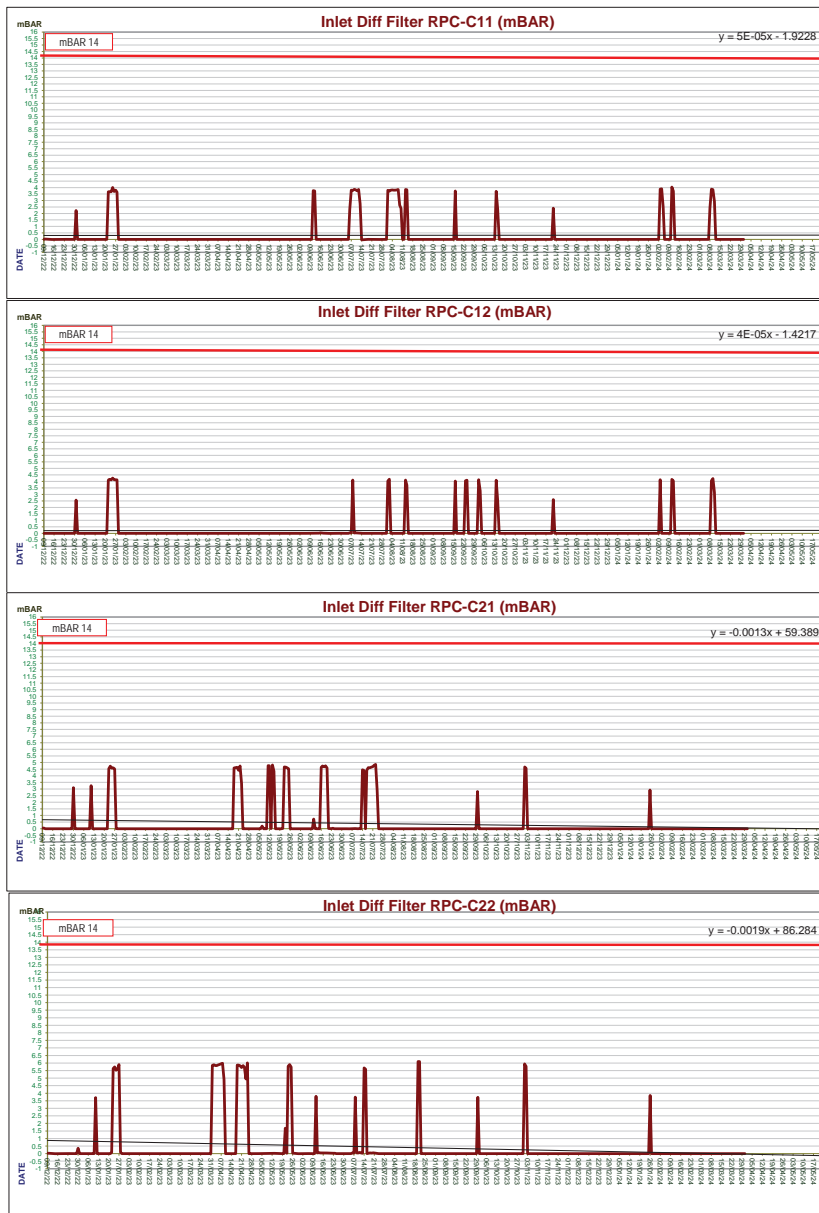
สำเนาเขียน : ชอธ,อด-บพ.,ช.อด-บพ.,นรณ-บพ.,มบป-บพ.,มวพ-บพ.,มคพ-บพ.

Remark :

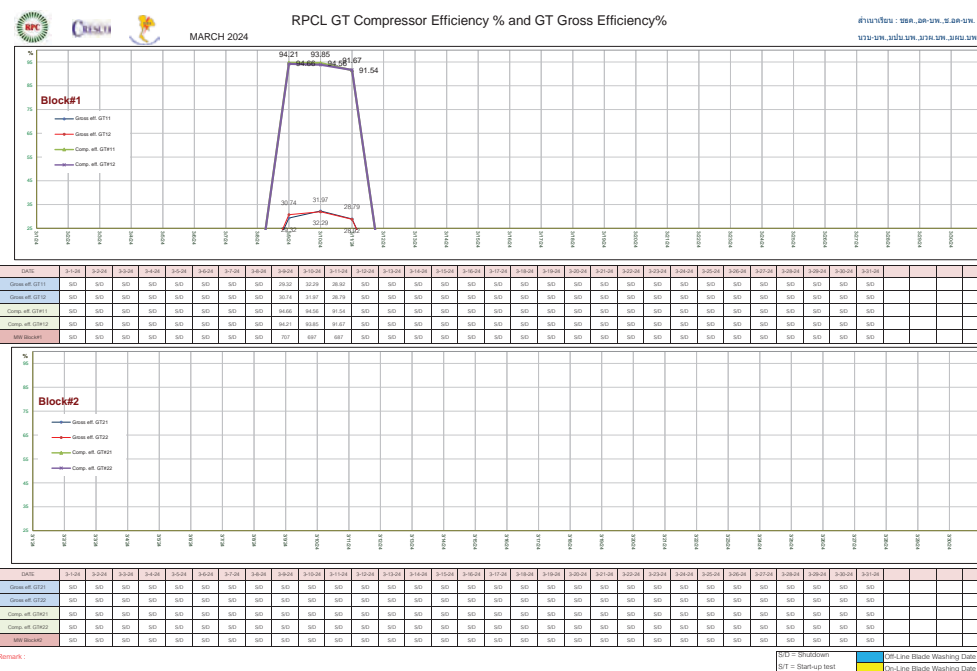
## GT AIR INLET FILTER

สำเนาเรียน : ชค.,อค-บพ.,ช.อค-บพ.

פ.ע.ע.א.מ., פ.ע.פ.א.מ., פ.ע.ע.ל.מ., פ.ע.ע.כ.מ.



Remark: Replace Air Inlet filter GT#11 (20 Nov 2019) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#12 (18 Apr 2018) , Brand : Donaldson ; (Class E12D) ; Pre-Filter Brand : Freudenberg (Class F7) on 1 Jan 2021  
Replace Air Inlet filter GT#21 (20 Feb 2020) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#22 (17 Apr 2021) , Brand : Nordic ; (HEPA) (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7) on 28 Jul 2020





## RATCHABURI POWER MONTHLY PERFORMANCE REPORT

Monthly: Apr-24

Duration: 1-Apr-24 30-Apr-24

ITEM	DESCRIPTION	CODE	UNIT	RP-C11	RP-C12	RP-C10	RP-CC1	RP-C21	RP-C22	RP-C20	RP-CC2	Total Plant
1	Gross Efficiency	-	%	28.45	29.14	-	43.30	-	-	-	-	41.72
2	Net Efficiency ( DCS )	-	%	25.97	28.82	-	41.47	-	-	-	-	39.96
3	Net Efficiency ( Reve. Meter & PTT)	-	%	26.94	29.90	-	43.01	-	-	-	-	42.04
4	Gross Heat Rate	-	kJ/kWh	12,655.57	12,354.18	-	8,314.43	-	-	-	-	8,628.34
5	Net Heat Rate ( DCS )	-	kJ/kWh	13,859.91	12,489.69	-	8,681.81	-	-	-	-	9,009.58
6	Net Heat Rate ( Reve. Meter & PTT)	-	kJ/kWh	13,362.89	12,041.81	-	8,370.48	-	-	-	-	8,562.28
7	Gross Maximum Capacity	GMC	MW	245.80	245.80	275.20	766.80	245.80	245.80	275.20	766.80	1,533.60
8	Net Contracted Capacity	NCC	MW	224.39	224.39	251.23	700.00	224.39	224.39	251.23	700.00	1,400.00
9	Gross Generation	GG	MWh	2,773.51	2,506.56	2,665.97	7,946.05	0.00	0.00	0.00	0.00	7,946.05
10	Output Factor	OF	%	60.18	53.61	48.27	51.63	0.00	0.00	0.00	0.00	-
11	Net Generation	NG	MWh	2,532.51	2,479.36	2,654.73	7,609.80	0.00	0.00	0.00	0.00	7,609.80
12	Net Generation (Reve.Meter)	NG	MWh	2,559.82	2,506.10	2,683.36	7,691.85	0.00	0.00	0.00	0.00	7,691.85
13	Dispatch Factor	DF	%	1.83	1.79	1.71	1.76	-	-	-	-	0.88
14	Station Service Power	-	MWh	241.00	27.20	-	451.27	0.00	0.00	-	925.89	1377.16
15	Station Service Power Percentage	-	%	8.69	1.08	-	5.68	-	-	-	-	-
16	Period Hour	PH	Hr	720.00	720.00	720.00	720.00	720.00	720.00	720.00	720.00	-
17	Available Hour	AH	Hr	624.00	624.00	624.00	624.00	624.00	624.00	624.00	624.00	-
18	Availability Factor	AF	%	86.67	86.67	86.67	86.67	86.67	86.67	86.67	86.67	-
19	Service Hour	SH	Hr	18.75	19.02	20.07	20.07	1.30	1.17	1.82	1.82	21.84
20	Service Factor	SF	%	2.60	2.64	2.79	2.79	0.18	0.16	0.25	0.25	-
21	Planned Outage Hour	POH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
22	Planned Outage Factor	POF	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
23	Unplanned Outage Hour	UOH	Hr	96.00	96.00	96.00	96.00	96.00	96.00	96.00	96.00	-
24	Unplanned Outage Factor	UOF	%	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	-
25	Maintenance Outage Hour	MOH	Hr	96.00	96.00	96.00	96.00	96.00	96.00	96.00	96.00	-
26	Forced Outage Hour	FOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
27	Equivalent Unit Derated Hour	EUDH	Hr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	Equivalent Available Hour	EAH	Hr	624.000	624.000	624.000	624.000	624.000	624.000	624.000	624.000	624.000
29	Equivalent Available Factor	EAF	%	-	-	-	86.67	-	-	-	86.67	-
30	Contract Available Factor (For EGAT PA)	-	%	-	-	-	86.67	-	-	-	86.67	-
31	Reliability Factor	RF	%	16.34	16.54	17.29	17.29	1.34	1.20	1.86	1.86	-
32	Equivalent Operating Hour	EOH	Hr	78.00	94.00	-	61.00	41.00	-	-	-	-
33	Contract Available Hour	CAH	Hr	-	-	-	624.00	-	-	-	624.00	-
34	Fuel Gas Consumption	-	MMSCF	39.56	34.90	-	74.45	1.64	1.17	-	2.81	77.26
35	Fuel Oil Consumption	-	Ton	0.00	0.00	-	0.00	0.00	0.00	-	0.00	0.00
36	Energy Consumption	-	MMBTU	33,268.74	29,350.56	-	62,619	1,377.35	986.78	-	2,364	64,983
37	Fuel Gas Energy Consumption (PTT)	-	MMBTU	32,421.57	28,603.16	-	61,025	814.64	583.63	-	1,398	62,423
38	Gross Fuel Cost Rate	-	Baht/kWh	3.79	3.70	-	2.49	-	-	-	-	2.59
39	Net Fuel Cost Rate	-	Baht/kWh	4.15	3.74	-	2.60	-	-	-	-	2.70
40	Gross Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	2.49	-	-	-	-	2.59
41	Net Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	2.60	-	-	-	-	2.70
42	Gross Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
43	Net Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
44	Net MWh sent out (revenue meter)	-	MWh	-	-	-	7,691.85	-	-	-	0.00	7,691.85
45	Net MVArh sent out (revenue meter)	-	MVArh	-	-	-	242.28	-	-	-	64.56	306.84
46	Net MWh Import (revenue meter)	-	MWh	-	-	-	1,230.39	-	-	-	810.87	2,041.26

47	Net MVArh Import (revenue meter)			-	-	-	1014.284	-	-	-	546.255	1560.539
48	SOLAR GENERATE POWER (Inverter)		MWh									230.06
Fuel Gas Heating Value (HHVsat)				841.0691	Btu/SCF		Cost	316.23	Baht/MMBtu			
Fuel Oil Heating Value (HHV)				45895.7	kJ/kg		Cost	28.178	Baht/Liter			

Remark : -item 28 Calculated Block % Contract Available Factor = (CAH / PH) \*100 Used for EGAT PA.

-Dispatch factor calculation revised using net MWh from data GYR instead of net MWh from DCS and weight for each GT and ST (since Jan. 2013)

Reference : Operation and Maintenance Agreement Schedule 8. appendix 3

Efficiency Engineer

Reporter



Monthly Report

Ratchaburi Power : Block #1

APRIL

2024

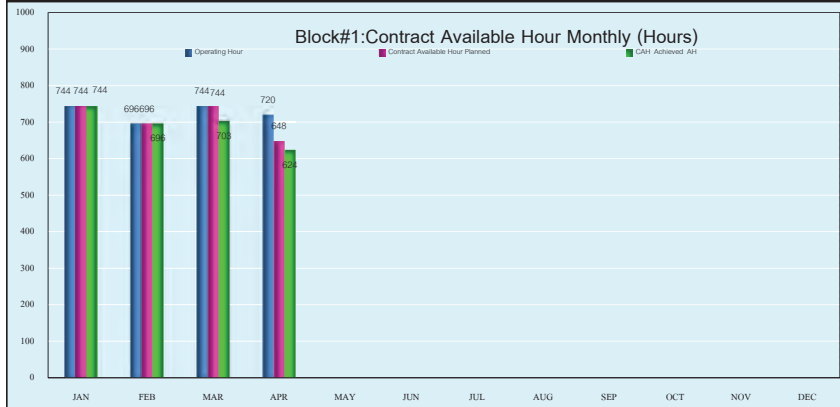
FROM PLANNING MANAGER

Mr.Surachet Saranasuksawat

วันที่ ๑๕ เดือน เมษายน ๒๕๖๗

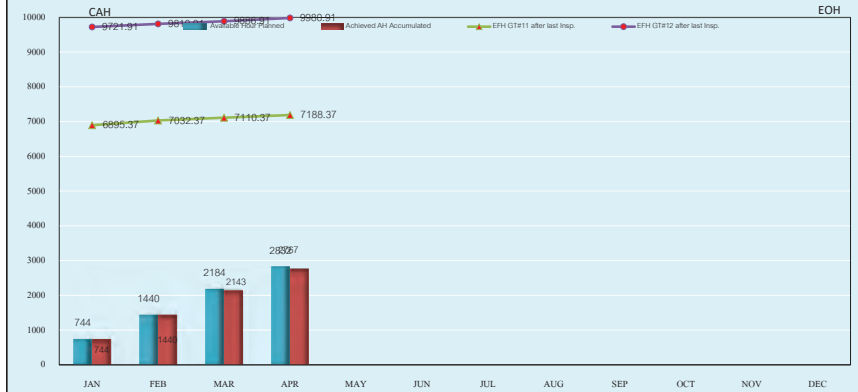
วันที่ ๑๕ เดือน เมษายน ๒๕๖๗

## Contract Available Hours &amp; Equivalent Operating Hours Summary



HOURS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN-APR
Operating Hour	744	696	744	720									2904
Contract Available Hour Planned	744	696	744	648									2832
CAH Achieved AH	744	696	703	624									2767
EFH GT#11	41	137	78	78									334
EFH GT#12	41	89	76	94									300

## Block#1: CAH &amp; EOH Accumulative (Hours)



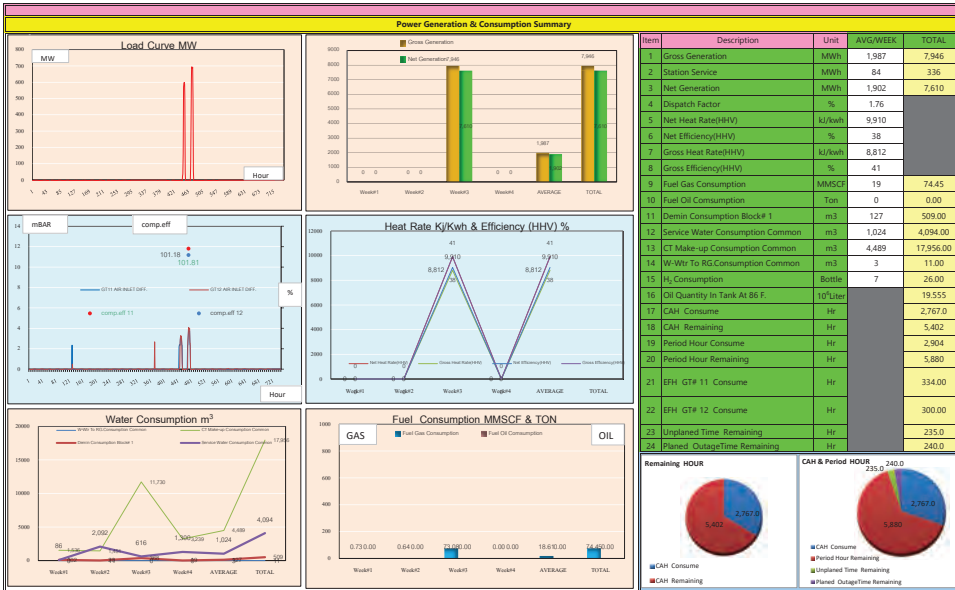
Accumulative Hours	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Operating Hour	744	1440	2184	2904								
Available Hour Planned	744	1440	2184	2832								
CAH Achieved AH	744	1440	2143	2767								
EFH GT#11	83488.78	83625.78	83703.78	83781.78								
EFH GT#11 after last Insp.	6895.37	7032.37	7110.37	7188.37								
EFH GT#12	87088.09	87177.09	87253.09	87347.09								
EFH GT#12 after last Insp.	9721.91	9810.91	9886.91	9980.91								

Reference : RPCL 7 Years Planned Revise\_0/2017\_(20 Jul 2017)

Remark :

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หน้า ๑๕ จาก ๑๕



Remark : Item 25 Unplanned Time Remaining = Period Hour remain - CAH Remain - PlanOutage - Off line washing

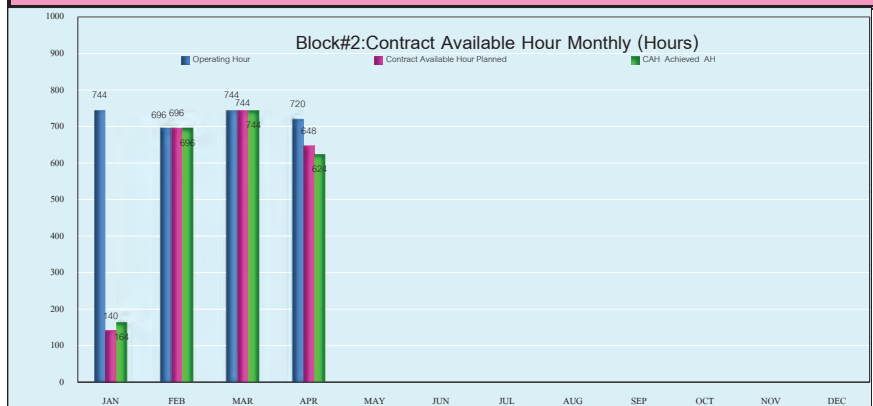
สรุปลักษณะ

Plant & Balance of Plant Condition Summary					
Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#11 Diff. Pressure Inlet Air Filter	mBAR	2.70	3.79	14
2	GT#12 Diff. Pressure Inlet Air Filter	mBAR	0.74	4.09	14
3	Condenser Inlet Temp.	C	29.97	33.41	Diff.<9 -10 C
4	Condenser Outlet Temp.	C	31.56	41.82	
5	Sum of current CT fan	A	292.14	3,009.09	3,798
6	CT make up pump A Diff. Pressure (common)	BAR	0.02	0.49	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	0.02	0.70	0.7
8	CT make up Cleaning Strainer	Time		0.00	2
9	Auxiliary CWP A Diff. Pressure	BAR	0.08	0.09	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	Stan By	Stan By	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	Stan By	Stan By	0.18
12	Close Cooling water Inlet Temp.	C	31.07	39.10	42
13	Close Cooling water Outlet Temp.	C	30.69	36.19	38
14	Service Water Conductivity	uS/cm	294.20	294.20	300
15	Circulating water Conductivity	uS/cm	N/A	N/A	<1600
16	Boiler Make up WTR Conductivity	uS/cm	N/A	N/A	-
17	Cond.water CEP Conductivity	uS/cm	N/A	N/A	-
18	Treated waste WTR Conductivity	uS/cm	N/A	N/A	2,000
19	Service Water pH	pH	7.66	7.66	-
20	Circulating water pH	pH	N/A	N/A	8.0-8.5
21	Cond.water CEP pH	pH	N/A	N/A	9.3-10.2
22	Treated waste WTR pH	pH	N/A	N/A	6.5-8.5
23	Turbidity of CW Basin	NTU	N/A	N/A	20
HRSG #11 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	60.29	76.42	96 (152)
25	SO <sub>x</sub>	ppm	3.38	3.60	18 (18.8)
26	CO	ppm	5.09	6.45	690 (690)
27	Opacity	%	1.54	1.81	20 (20)
HRSG #12 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	56.50	71.89	96 (152)
29	SO <sub>x</sub>	ppm	1.31	1.58	18 (18.8)
30	CO	ppm	3.14	4.29	690 (690)
0	Opacity	%	1.04	1.22	20 (20)

สำเนาเขียน : สบด, อค-บพ, ช.อค-บพ, นวบ-บพ, มปบ-บพ, มวพ, บพ, มคพ, บพ.

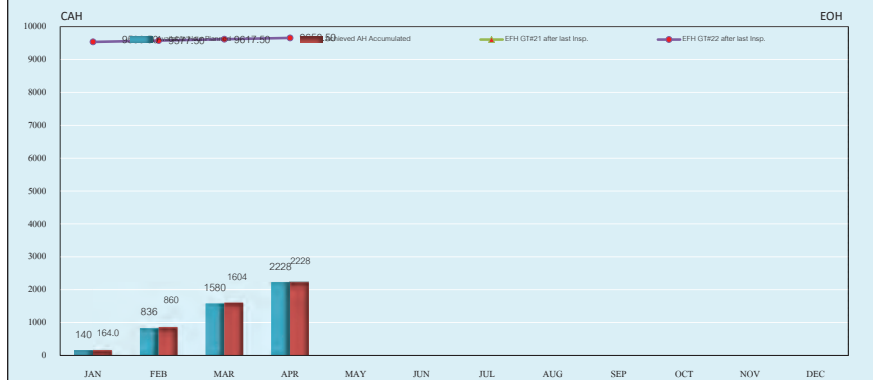
Remark : Item 15-23 no data from the Chemical department

Contract Available Hours & Equivalent Operating Hours Summary



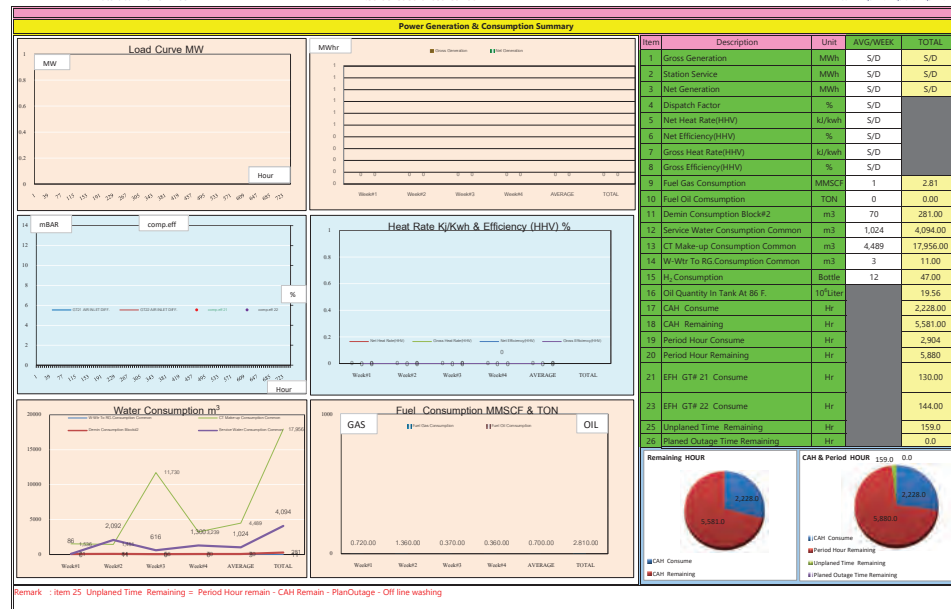
HOURS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN-APR
Operating Hour	744	696	744	720									2904
Contract Available Hour Planned	140	696	744	648									2228
CAH Achieved AH	164	696	744	624									2228
EFH GT#21	29	40	41	61									171
EFH GT#22	22	41	40	41									144

Block#2: CAH & EOH Accumulative (Hours)



Accumulative Hours	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Operating Hour	744	1440	2184	2904								
Available Hour Planned	140	836	1580	2228								
CAH Achieved AH	164	860	1604	2228								
EFH GT#21	91762.16	91802.16	91843.16	91904.16								
EFH GT#21 after last Insp.	10165.57	10205.57	10246.57	10307.57								
EFH GT#22	90562.71	90603.71	90643.71	90684.71								
EFH GT#22 after last Insp.	9536.50	9577.50	9617.50	9658.50								

Reference : RPCL 7 Years Planned Revise\_0/2017\_(20 Jul 2017)



Remark : Item 25 Unplanned Time Remaining = Period Hour remain - CAH Remain - PlanOutage - Off line washing



Monthly Report  
Ratchaburi Power Block #2

FROM PLANNING MANAGER  
Mr.Surachet Saranasuksawat

APRIL 2024

Plant & Balance of Plant Condition Summary

Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#21 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
2	GT#22 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
3	Condenser Inlet Temp.	C	S/D	S/D	Diff.<9 -10 C
4	Condenser Outlet Temp.	C	S/D	S/D	
5	Sum of current CT fan	A	S/D	S/D	3,798
6	CT make up pump A Diff. Pressure (common)	BAR	S/D	S/D	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	S/D	S/D	0.7
8	CT make up Cleaning Strainer	Time		S/D	2
9	Auxiliary CWP A Diff. Pressure	BAR	S/D	S/D	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	S/D	S/D	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	S/D	S/D	0.18
12	Close Cooling water Inlet Temp.	C	S/D	S/D	42
13	Close Cooling water Outlet Temp.	C	S/D	S/D	38
14	Service Water Conductivity	uS/cm	S/D	S/D	300
15	Circulating water Conductivity	uS/cm	S/D	S/D	<1600
16	Boiler Make up WTR Conductivity	uS/cm	S/D	S/D	-
17	Cond.water CEP Conductivity	uS/cm	S/D	S/D	-
18	Treated waste WTR Conductivity	uS/cm	S/D	S/D	2,000
19	Service Water pH	pH	S/D	S/D	-
20	Circulating water pH	pH	S/D	S/D	8.0-8.5
21	Cond.water CEP pH	pH	S/D	S/D	9.3-10.2
22	Treated waste WTR pH	pH	S/D	S/D	6.5-8.5
23	Turbidity of CW Basin	NTU	S/D	S/D	20
HRSG #21 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
25	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
26	CO	ppm	S/D	S/D	690 (690)
27	Opacity	%	S/D	S/D	20 (20)
HRSG #22 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
29	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
30	CO	ppm	S/D	S/D	690 (690)
0	Opacity	%	S/D	S/D	20 (20)

สำเนาเขียน : วิศว,คค-บพ,คคค-บพ,นรณ-บพ,นบพ.บพ,นรณ.บพ,นพพ.บพ

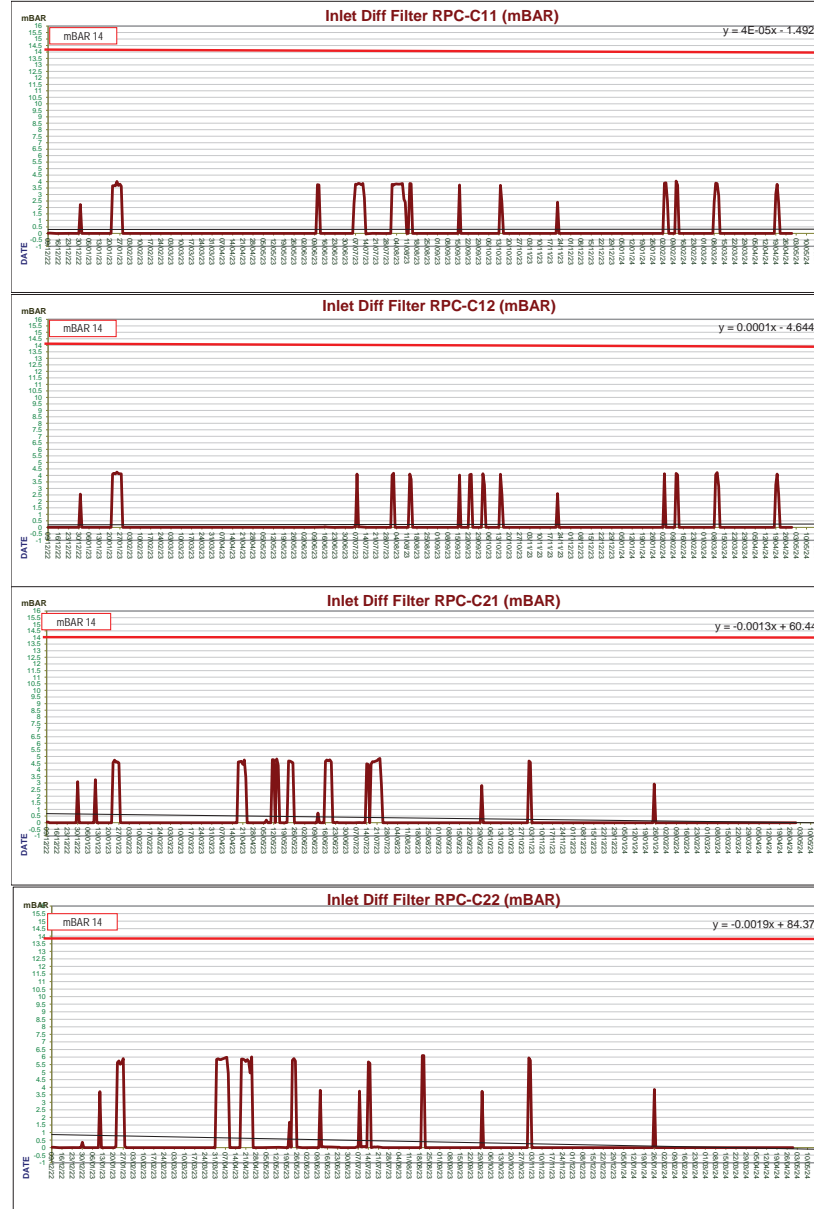
Remark :



GT AIR INLET FILTER

สำเนาเขียน : วิศว,คค-บพ,คคค-บพ

นรณ-บพ,นบพ.บพ,นรณ.บพ,นพพ.บพ



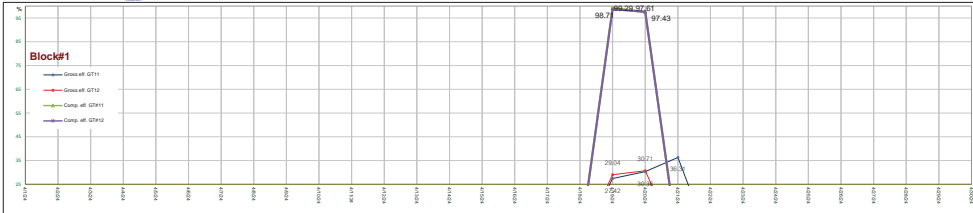
Remark : Replace Air Inlet filter GT#11 (20 Nov 2019) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#12 (18 Apr 2018) , Brand : Donaldson ; ( Class E12D ) ; Pre-Filter Brand : Freudenberg (Class F7) on 1 Jan 2021  
Replace Air Inlet filter GT#21 (20 Feb 2020) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#22 (17 Apr 2021) , Brand : Nordic ; (HEPA) ; (Class E11 ) ; Pre-Filter Brand : Freudenberg (Class F7) on 28 Jul 2020



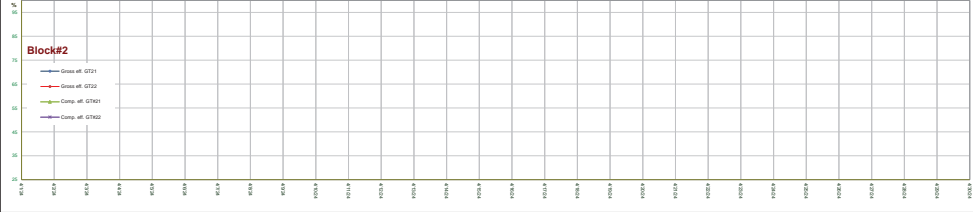
APRIL 2024

RPCL GT Compressor Efficiency % and GT Gross Efficiency%

אחראי: מ.א.א. - מ.א.א. - מ.א.א.  
אחראי: מ.א.א. - מ.א.א. - מ.א.א.



DATE	4-1-24	4-2-24	4-3-24	4-4-24	4-5-24	4-6-24	4-7-24	4-8-24	4-9-24	4-10-24	4-11-24	4-12-24	4-13-24	4-14-24	4-15-24	4-16-24	4-17-24	4-18-24	4-19-24	4-20-24	4-21-24	4-22-24	4-23-24	4-24-24	4-25-24	4-26-24	4-27-24	4-28-24	4-29-24	4-30-24				
Gross eff. GT11	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50				
Gross eff. GT12	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50				
Comp. eff. GT11	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50				
Comp. eff. GT12	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50				
MW Output	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50				



DATE	4-1-24	4-2-24	4-3-24	4-4-24	4-5-24	4-6-24	4-7-24	4-8-24	4-9-24	4-10-24	4-11-24	4-12-24	4-13-24	4-14-24	4-15-24	4-16-24	4-17-24	4-18-24	4-19-24	4-20-24	4-21-24	4-22-24	4-23-24	4-24-24	4-25-24	4-26-24	4-27-24	4-28-24	4-29-24	4-30-24					
Gross eff. GT21	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50						
Gross eff. GT22	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50					
Comp. eff. GT21	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50					
Comp. eff. GT22	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50				
MW Output	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50				

Remark : Comp. eff. GT111 on 21/4/24 no data on DCS due to short period operation

Off Line Blade Washing Date  
On-Line Blade Washing Date



RATCHABURI POWER MONTHLY PERFORMANCE REPORT

Month: May-24  
Duration: 1-May-24 31-May-24

ITEM	DESCRIPTION	CODE	UNIT	RP-C11	RP-C12	RP-C10	RP-CC1	RP-C21	RP-C22	RP-C20	RP-CC2	Total Plant
1	Gross Efficiency	-	%	29.07	30.18	-	44.45	29.32	31.17	-	46.51	46.05
2	Net Efficiency ( DCS )	-	%	27.37	29.13	-	42.66	27.61	29.71	-	44.93	44.42
3	Net Efficiency ( Reve. Meter & PTT)	-	%	27.78	29.56	-	43.28	28.03	30.16	-	45.61	45.10
4	Gross Heat Rate	-	kJ/kWh	12,385.50	11,929.68	-	8,099.06	12,277.27	11,550.32	-	7,740.15	7,817.10
5	Net Heat Rate ( DCS )	-	kJ/kWh	13,151.15	12,356.35	-	8,439.24	13,038.51	12,117.53	-	8,013.35	8,104.20
6	Net Heat Rate ( Reve. Meter & PTT)	-	kJ/kWh	12,960.75	12,177.46	-	8,317.06	12,841.94	11,934.85	-	7,892.54	7,983.04
7	Gross Maximum Capacity	GMC	MW	245.80	245.80	275.20	766.80	245.80	245.80	275.20	766.80	1,533.60
8	Net Contracted Capacity	NCC	MW	224.39	224.39	251.23	700.00	224.39	224.39	251.23	700.00	1,400.00
9	Gross Generation	GG	MWh	4,573.02	4,218.26	4,415.38	13,206.66	9,910.67	21,895.10	16,589.50	48,393.32	61,599.98
10	Output Factor	OF	%	61.40	68.10	52.95	56.84	66.64	78.76	46.62	48.81	-
11	Net Generation	NG	MWh	4,306.78	4,072.60	4,397.30	12,674.32	9,332.05	20,870.20	16,514.85	46,743.43	59,417.74
12	Net Generation (Reve.Meter)	NG	MWh	4,302.91	4,068.94	4,393.35	12,662.92	9,330.80	20,867.39	16,512.63	46,737.14	59,400.06
13	Dispatch Factor	DF	%	2.58	2.44	2.35	2.43	5.59	12.50	8.83	8.97	5.70
14	Station Service Power	-	MWh	266.24	145.66	-	624.97	578.62	1,024.90	-	1,742.52	2367.49
15	Station Service Power Percentage	-	%	5.82	3.45	-	4.73	5.84	4.68	-	3.60	3.84
16	Period Hour	PH	Hr	744.00	744.00	744.00	744.00	744.00	744.00	744.00	744.00	-
17	Available Hour	AH	Hr	744.00	744.00	744.00	744.00	744.00	744.00	744.00	744.00	-
18	Availability Factor	AF	%	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	-
19	Service Hour	SH	Hr	30.30	25.20	30.30	30.30	60.50	113.10	129.30	129.30	150.60
20	Service Factor	SF	%	4.07	3.39	4.07	4.07	8.13	15.20	17.38	17.38	-
21	Planned Outage Hour	POH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
22	Planned Outage Factor	POF	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
23	Unplanned Outage Hour	UOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
24	Unplanned Outage Factor	UOF	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
25	Maintenance Outage Hour	MOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
26	Forced Outage Hour	FOH	Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
27	Equivalent Unit Derated Hour	EUOH	Hr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	Equivalent Available Hour	EAH	Hr	744.000	744.000	744.000	744.000	744.000	744.000	744.000	744.000	744.000
29	Equivalent Available Factor	EAF	%	-	-	-	100.00	-	-	-	100.00	-
30	Contract Available Factor (For EGAT PA)	-	%	-	-	-	100.00	-	-	-	100.00	-
31	Reliability Factor	RF	%	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	-
32	Equivalent Operating Hour	EOH	Hr	109.00	103.00	-	-	219.00	252.00	-	-	-
33	Contract Available Hour	CAH	Hr	-	-	-	744.00	-	-	-	744.00	-
34	Fuel Gas Consumption	-	MMSCF	63.89	56.77	-	120.66	137.26	285.29	-	422.55	543.21
35	Fuel Oil Consumption	-	Ton	0.00	0.00	-	0.00	0.00	0.00	-	0.00	0.00
36	Energy Consumption	-	MMBTU	53,683.54	47,696.50	-	101,380	115,326.63	239,698.49	-	355,025	456,405
37	Fuel Gas Energy Consumption (PTT)	-	MMBTU	52,858.73	46,963.67	-	99,822	113,572.65	236,052.95	-	349,626	449,448
38	Gross Fuel Cost Rate	-	Baht/kWh	3.63	3.50	-	2.38	3.60	3.39	-	2.27	2.29
39	Net Fuel Cost Rate	-	Baht/kWh	3.86	3.62	-	2.48	3.82	3.55	-	2.35	2.38
40	Gross Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	2.38	-	-	-	2.27	2.29
41	Net Fuel Gas Cost Rate	-	Baht/kWh	-	-	-	2.48	-	-	-	2.35	2.38
42	Gross Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
43	Net Fuel Oil Cost Rate	-	Baht/kWh	-	-	-	-	-	-	-	-	-
44	Net MWh sent out (revenue meter)	-	MWh	-	-	-	12,662.92	-	-	-	46,737.14	59,400.06
45	Net MVarh sent out (revenue meter)	-	MVarh	-	-	-	670.32	-	-	-	2,981.83	3,652.15
46	Net MWh Import (revenue meter)	-	MWh	-	-	-	542.62	-	-	-	1,439.59	1,982.20
47	Net MVarh Import (revenue meter)	-	MWh	-	-	-	831.274	-	-	-	2088.044	2919.318
48	SOLAR GENERATE POWER (Inverter)	-	MWh	-	-	-	-	-	-	-	-	185.25
Fuel Gas Heating Value (HHVsat)				840.2022	Btu/SCF	Cost		309.51	Baht/MMBTU			
Fuel Oil Heating Value (HHV)				45895.7	kJ/kg	Cost		28.178	Baht/Liter			

Remark : -Item 28 Calculated Block % Contract Available Factor = ( CAH / PH ) \*100 Used for EGAT PA.

-Dispatch factor calculation revised using net MWh from data GYR instead of net MWh from DCS and weight for each GT and ST (since Jan. 2013)

Reference : Operation and Maintenance Agreement Schedule 8. appendix 3

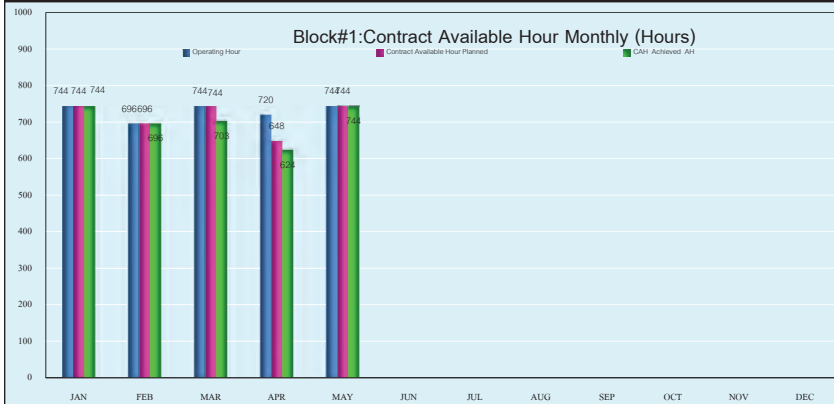
Efficiency Engineer

Reporter



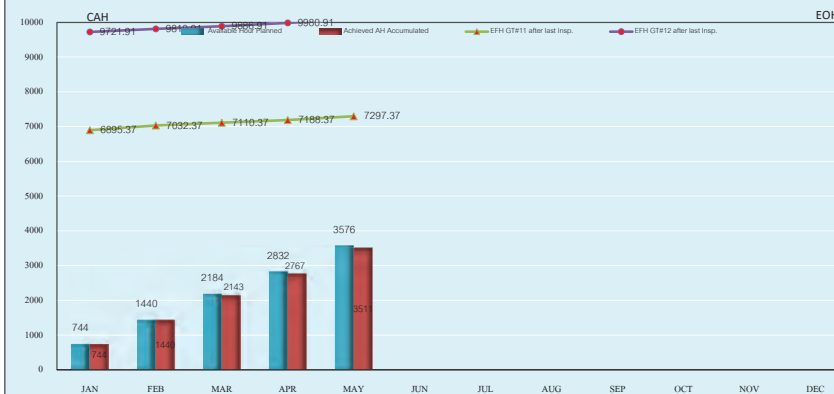


Contract Available Hours & Equivalent Operating Hours Summary



HOURS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN-MAY
Operating Hour	744	696	744	720	744								3648
Contract Available Hour Planned	744	696	744	648	744								3576
CAH Achieved AH	744	696	703	624	744								3511
EFH GT#11	41	137	78	78	109								443
EFH GT#12	41	89	76	94	103								403

Block#1: CAH & EOH Accumulative (Hours)



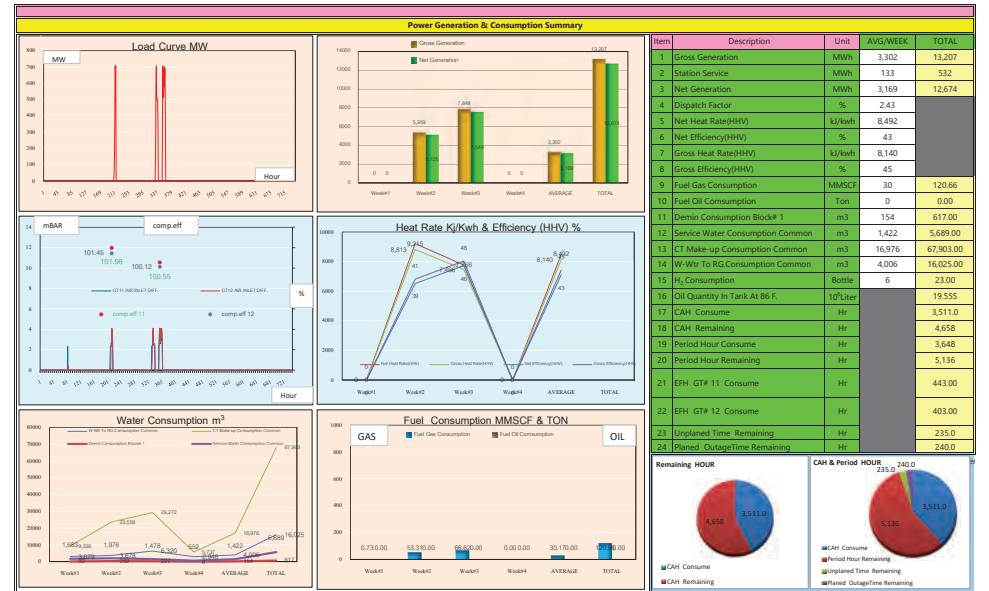
Accumulative Hours	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Operating Hour	744	1440	2184	2904	3648							
Available Hour Planned	744	1440	2184	2832	3576							
CAH Achieved AH	744	1440	2143	2767	3511							
EFH GT#11	83488.78	83625.78	83703.78	83781.78	83890.78							
EFH GT#11 after last Insp.	6895.37	7032.37	7110.37	7188.37	7297.37							
EFH GT#12	87088.09	87177.09	87253.09	87347.09	87450.09							
EFH GT#12 after last Insp.	9721.91	9810.91	9886.91	9980.91	10083.91							

Reference : RPCL 7 Years Planned Revise\_0/2017\_(20 Jul 2017)

Remark :

วันที่รายงาน

หน้า 01 จาก 01



Remark : item 25 Unplanned Time Remaining = Period Hour remain - CAH Remain - Plan-Outage - Off line washing

วันที่รายงาน



Monthly Report  
Ratchaburi Power Block #1

FROM PLANNING MANAGER  
Mr.Surachet Saranasuksawat

MAY 2024

Plant & Balance of Plant Condition Summary

Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#11 Diff. Pressure Inlet Air Filter	mBAR	2.58	3.94	14
2	GT#12 Diff. Pressure Inlet Air Filter	mBAR	0.45	4.12	14
3	Condenser Inlet Temp.	C	30.56	33.98	Diff.<9 -10 C
4	Condenser Outlet Temp.	C	31.83	43.00	
5	Sum of current CT fan	A	252.78	2,862.92	3,798
6	CT make up pump A Diff. Pressure (common)	BAR	0.02	0.06	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	0.02	0.63	0.7
8	CT make up Cleaning Strainer	Time		0.00	2
9	Auxiliary CWP A Diff. Pressure	BAR	0.07	0.09	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	Stan By	Stan By	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	0.07	0.09	0.18
12	Close Cooling water Inlet Temp.	C	31.70	39.93	42
13	Close Cooling water Outlet Temp.	C	31.36	36.89	38
14	Service Water Conductivity	uS/cm	279.00	285.30	300
15	Circulating water Conductivity	uS/cm	N/A	N/A	<1600
16	Boiler Make up WTR Conductivity	uS/cm	N/A	N/A	-
17	Cond.water CEP Conductivity	uS/cm	N/A	N/A	-
18	Treated waste WTR Conductivity	uS/cm	N/A	N/A	2,000
19	Service Water pH	pH	7.59	7.70	-
20	Circulating water pH	pH	N/A	N/A	8.0-8.5
21	Cond.water CEP pH	pH	N/A	N/A	9.3-10.2
22	Treated waste WTR pH	pH	N/A	N/A	6.5-8.5
23	Turbidity of CW Basin	NTU	N/A	N/A	20
HRSG #11 Emission Value @ 7%O2 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	65.07	78.73	96 (152)
25	SO <sub>x</sub>	ppm	3.48	5.00	18 (18.8)
26	CO	ppm	5.16	7.26	690 (690)
27	Opacity	%	2.31	4.75	20 (20)
HRSG #12 Emission Value @ 7%O2 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	56.52	77.52	96 (152)
29	SO <sub>x</sub>	ppm	2.30	3.59	18 (18.8)
30	CO	ppm	3.33	5.51	690 (690)
0	Opacity	%	1.49	3.51	20 (20)

สำเนาเขียน : วิศว,อค-บพ.,ช.อค-บพ.,นพ.บ-บพ.,นพ.บพ.,นพ.บพ.,นพ.บพ.

Remark : Item 15-23 no data from the Chemical department



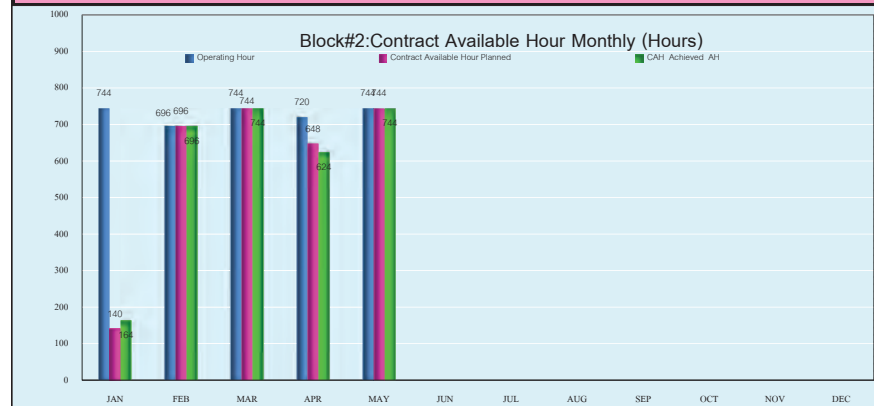
Monthly Report  
Ratchaburi Power : Block #2

MAY  
2024

FROM PLANNING MANAGER  
Mr.Surachet Saranasuksawat

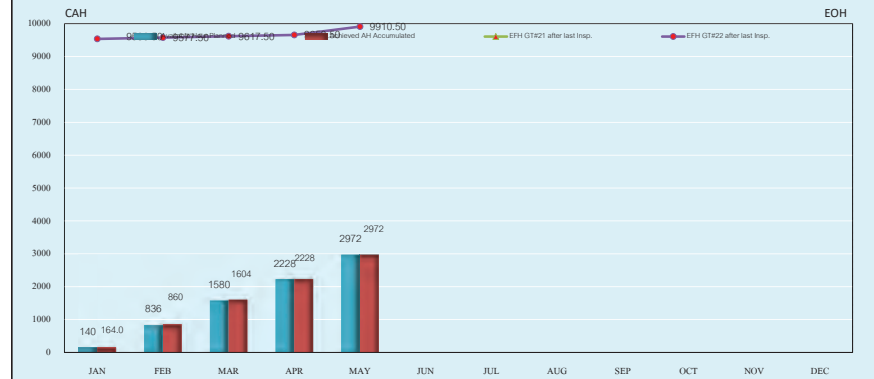
วิศว,อค-บพ.,ช.อค-บพ.,นพ.บ-บพ.,นพ.บพ.,นพ.บพ.

Contract Available Hours & Equivalent Operating Hours Summary



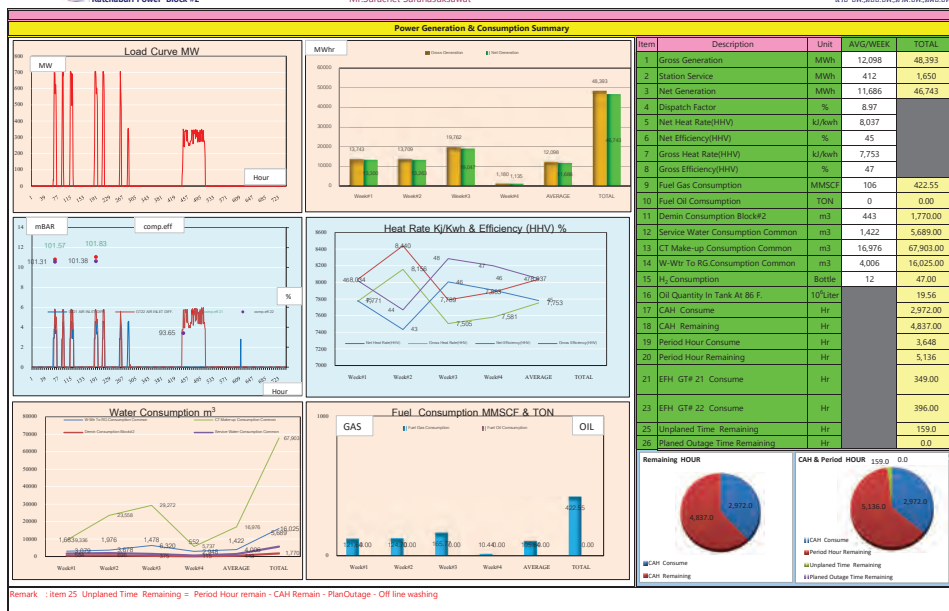
HOURS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN-MAY
Operating Hour	744	696	744	720	744								3648
Contract Available Hour Planned	140	696	744	648	744								2972
CAH Achieved AH	164	696	744	624	744								2972
EFH GT#21	29	40	41	61	219								390
EFH GT#22	22	41	40	41	252								396

Block#2: CAH & EOH Accumulative (Hours)



Accumulative Hours	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Operating Hour	744	1440	2184	2904	3648							
Available Hour Planned	140	836	1580	2228	2972							
CAH Achieved AH	164.0	860	1604	2228	2972							
EFH GT#21	91762.16	91802.16	91843.16	91904.16	92123.16							
EFH GT#21 after last Insp.	10165.57	10205.57	10246.57	10307.57	10526.57							
EFH GT#22	90562.71	90603.71	90643.71	90684.71	90936.71							
EFH GT#22 after last Insp.	9536.50	9577.50	9617.50	9658.50	9910.50							

Reference : RPCL 7 Years Planned Revise\_0(2017\_(20 Jul 2017)



วันที่ออกรายงาน

Plant & Balance of Plant Condition Summary					
Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#21 Diff. Pressure Inlet Air Filter	mBAR	0.60	4.65	14
2	GT#22 Diff. Pressure Inlet Air Filter	mBAR	1.06	5.97	14
3	Condenser Inlet Temp.	C	29.21	34.77	Diff.<9 -10 C
4	Condenser Outlet Temp.	C	31.02	43.34	
5	Sum of current CT fan	A	565.30	3,050.90	3,798
6	CT make up pump A Diff. Pressure (common)	BAR	0.02	0.60	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	0.02	0.64	0.7
8	CT make up Cleaning Strainer	Time		0.00	2
9	Auxiliary CWP A Diff. Pressure	BAR	0.08	0.09	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	0.08	0.09	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	0.09	0.10	0.18
12	Close Cooling water Inlet Temp.	C	30.84	40.68	42
13	Close Cooling water Outlet Temp.	C	30.24	36.64	38
14	Service Water Conductivity	uS/cm	278.28	285.30	300
15	Circulating water Conductivity	uS/cm	863.00	886.00	<1600
16	Boiler Make up WTR Conductivity	uS/cm	0.79	0.79	-
17	Cond.water CEP Conductivity	uS/cm	17.23	17.23	-
18	Treated waste WTR Conductivity	uS/cm	1,002.00	1,002.00	2,000
19	Service Water pH	pH	7.60	7.70	-
20	Circulating water pH	pH	8.29	8.32	8.0-8.5
21	Cond.water CEP pH	pH	9.72	9.72	9.3-10.2
22	Treated waste WTR pH	pH	7.30	7.30	6.5-8.5
23	Turbidity of CW Basin	NTU	5.72	5.83	20
HRSG #21 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	61.81	79.96	96 (152)
25	SO <sub>x</sub>	ppm	1.55	2.29	18 (18.8)
26	CO	ppm	1.34	8.67	690 (690)
27	Opacity	%	0.25	2.53	20 (20)
HRSG #22 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	48.18	79.72	96 (152)
29	SO <sub>x</sub>	ppm	0.58	5.27	18 (18.8)
30	CO	ppm	6.61	12.37	690 (690)
0	Opacity	%	0.19	2.62	20 (20)

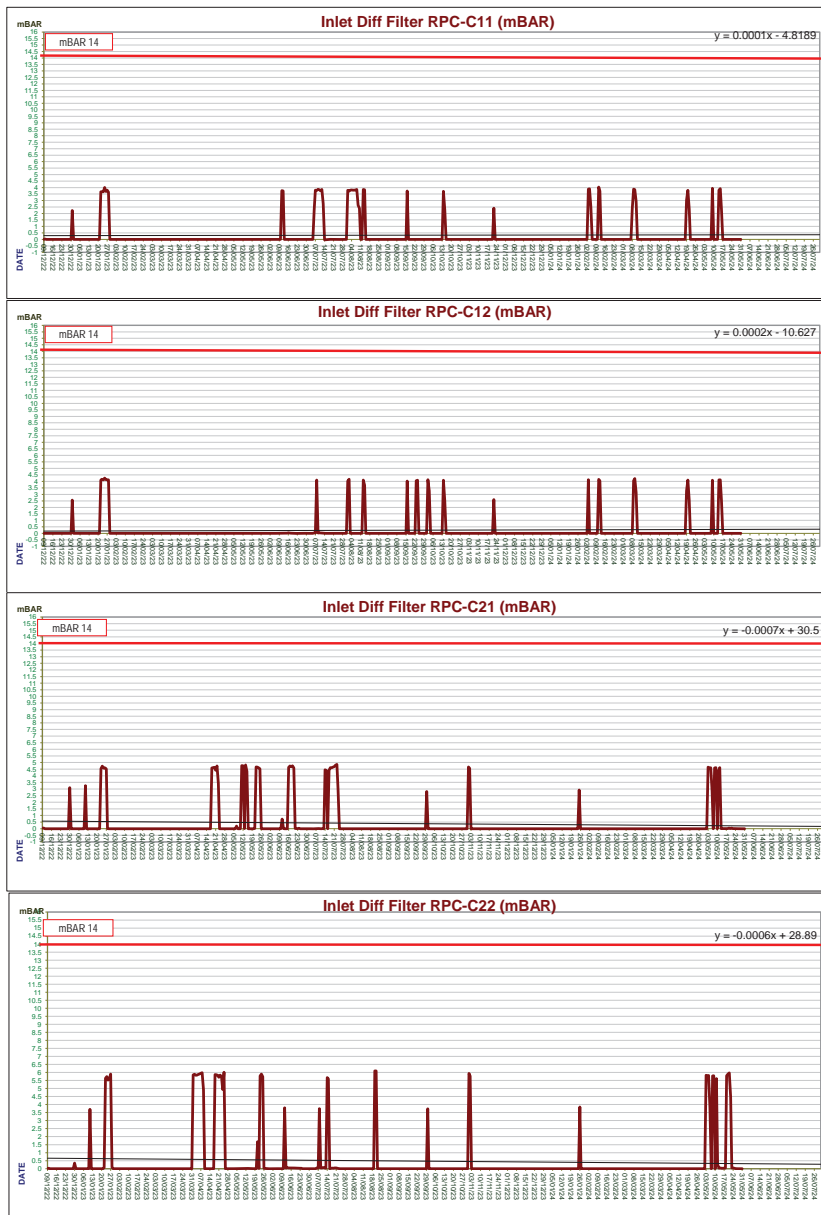
สำเนาเขียน : ชอศ.,อด.-บพ.,ช.อด.-บพ.,นายบ.-บพ.,ม.บพ.บพ.,ม.ภพ.บพ.,ม.คพ.บพ.

Remark :

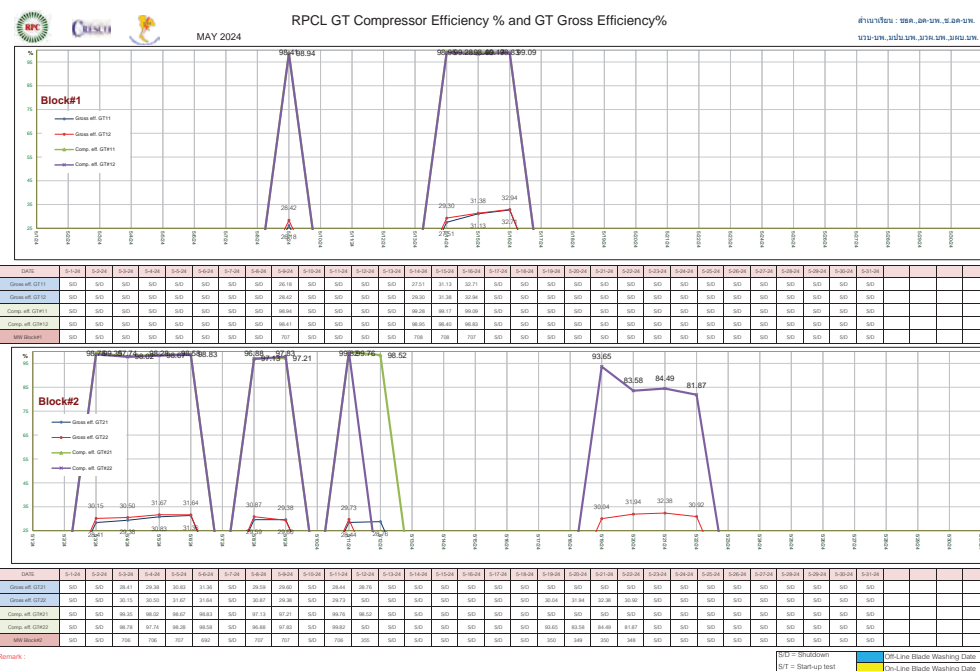
## GT AIR INLET FILTER

สำเนาเรียน : ชค.,อค-บพ.,ช.อค-บพ.

פ.ע.ע.מ., פ.ע.פ.מ., פ.ע.פ.מ., פ.ע.פ.מ.



Remark: Replace Air Inlet filter GT#11 (20 Nov 2019) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#12 (18 Apr 2018) , Brand : Donaldson ; (Class E12D) ; Pre-Filter Brand : Freudenberg (Class F7) on 1 Jan 2021  
Replace Air Inlet filter GT#21 (20 Feb 2020) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#22 (17 Apr 2021) , Brand : Nordic ; (HEPA) (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7) on 28 Jul 2020





Monthly:	Jun-24	
Duration:	1-Jun-24	30-Jun-24

Remark : -Item 28 Calculated Block % Contract Available Factor =  $\frac{(CAH - PYH)}{PYH} * 100$  Used for EGAT PA.

-Dispatch factor calculation revised using net MWh from data GYR instead of net MWh from DCS and weight for each GT and ST (since Jan. 2013)

Reference : Operation and Maintenance Agreement Schedule 8, appendix 3

Efficiency Engineer Reporter

Efficiency Engineer Reporter

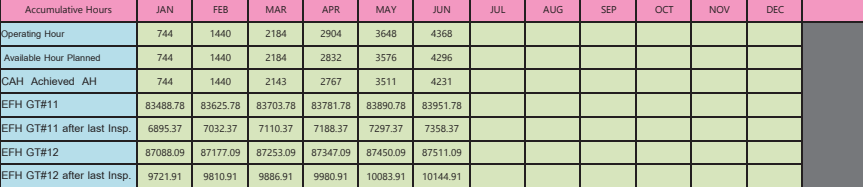
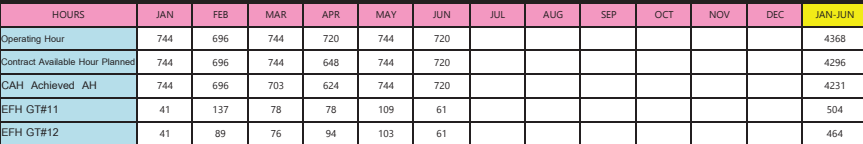


**JUNE**  
2024

FROM PLANNING MANAGER  
Mr.Surachet Saranasuksawat

สำนักฯ ชวค.จค-บพ.ช.จค-บพ.  
แนว-บพ.มปบ.บพ.มาผ.บพ.มผบ.บพ.

### Contract Available Hours & Equivalent Operating Hours Summary

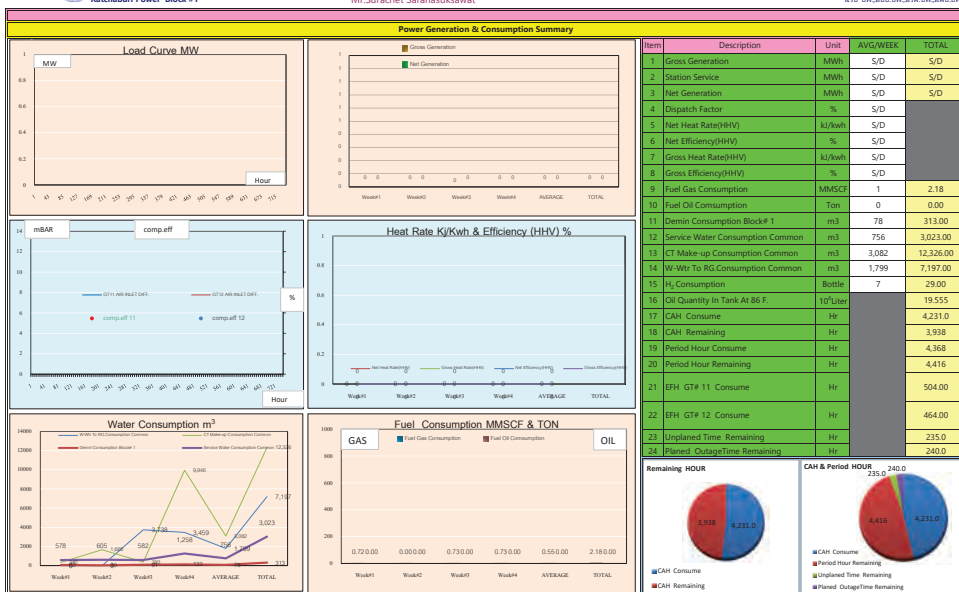


Reference : RPCL 7 Years Planned Revise\_0/2017\_(20 Jul 2017)

Remark :

## รหัสเอกสาร

## แก้ไขครั้งที่ 01



Remark : item 25 Unplanned Time Remaining = Period Hour remain - CAH Remain - PlanOutage - Off line washing

ភ័ស្តុតាង

### Plant & Balance of Plant Condition Summary

Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#11 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
2	GT#12 Diff. Pressure Inlet Air Filter	mBAR	S/D	S/D	14
3	Condenser Inlet Temp.	C	S/D	S/D	Diff. <9 -10 C
4	Condenser Outlet Temp.	C	S/D	S/D	
5	Sum of current CT fan	A	S/D	S/D	
6	CT make up pump A Diff. Pressure (common)	BAR	S/D	S/D	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	S/D	S/D	0.7
8	CT make up Cleaning Strainer	Time		S/D	2
9	Auxiliary CWP A Diff. Pressure	BAR	S/D	S/D	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	S/D	S/D	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	S/D	S/D	0.18
12	Close Cooling water Inlet Temp.	C	S/D	S/D	42
13	Close Cooling water Outlet Temp.	C	S/D	S/D	38
14	Service Water Conductivity	uS/cm	S/D	S/D	300
15	Circulating water Conductivity	uS/cm	S/D	S/D	<1600
16	Boiler Make up WTR Conductivity	uS/cm	S/D	S/D	-
17	Cond.water CEP Conductivity	uS/cm	S/D	S/D	-
18	Treated waste WTR Conductivity	uS/cm	S/D	S/D	2,000
19	Service Water pH	pH	S/D	S/D	-
20	Circulating water pH	pH	S/D	S/D	8.0-8.5
21	Cond.water CEP pH	pH	S/D	S/D	9.3-10.2
22	Treated waste WTR pH	pH	S/D	S/D	6.5-8.5
23	Turbidity of CW Basin	NTU	S/D	S/D	20
HRSG #11 Emission Value @ 7%O2 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
25	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
26	CO	ppm	S/D	S/D	690 (690)
27	Opacity	%	S/D	S/D	20 (20)
HRSG #12 Emission Value @ 7%O2 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
29	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
30	CO	ppm	S/D	S/D	690 (690)
0	Opacity	%	S/D	S/D	20 (20)

สำเนาเรียน : ชธค.,อศ-บพ.,ช.อศ-บพ.,นwab-บพ.,มปป.บพ.,มาผ.บพ.,มผบ.บพ.

Remark :

ກໂສເອກສາ:



Monthly Report  
Ratchaburi Power Block #2

FROM PLANNING MANAGER  
Mr.Surachet Saranasuksawat

JUN 2024

Plant & Balance of Plant Condition Summary

Item	Description	Unit	AVERAGE	MAX	CRITICAL
1	GT#21 Diff. Pressure Inlet Air Filter	mBAR	0.00	0.13	14
2	GT#22 Diff. Pressure Inlet Air Filter	mBAR	1.78	5.99	14
3	Condenser Inlet Temp.	C	28.16	29.44	Diff.<9 -10 C
4	Condenser Outlet Temp.	C	30.68	38.00	
5	Sum of current CT fan	A	984.83	2,906.25	3,798
6	CT make up pump A Diff. Pressure (common)	BAR	0.01	0.07	0.7
7	CT make up pump B Diff. Pressure (common)	BAR	0.01	0.05	0.7
8	CT make up Cleaning Strainer	Time		0.00	2
9	Auxiliary CWP A Diff. Pressure	BAR	Stan By	Stan By	0.18
10	Auxiliary CWP B Diff. Pressure	BAR	0.09	0.10	0.18
11	Auxiliary CWP C Diff. Pressure	BAR	Stan By	Stan By	0.18
12	Close Cooling water Inlet Temp.	C	30.20	34.11	42
13	Close Cooling water Outlet Temp.	C	29.39	31.96	38
14	Service Water Conductivity	uS/cm	264.60	264.60	300
15	Circulating water Conductivity	uS/cm	N/A	N/A	<1600
16	Boiler Make up WTR Conductivity	uS/cm	N/A	N/A	-
17	Cond.water CEP Conductivity	uS/cm	N/A	N/A	-
18	Treated waste WTR Conductivity	uS/cm	N/A	N/A	2,000
19	Service Water pH	pH	7.52	7.52	-
20	Circulating water pH	pH	N/A	N/A	8.0-8.5
21	Cond.water CEP pH	pH	N/A	N/A	9.3-10.2
22	Treated waste WTR pH	pH	N/A	N/A	6.5-8.5
23	Turbidity of CW Basin	NTU	N/A	N/A	20
HRSG #21 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
24	NO <sub>x</sub>	ppm	S/D	S/D	96 (152)
25	SO <sub>x</sub>	ppm	S/D	S/D	18 (18.8)
26	CO	ppm	S/D	S/D	690 (690)
27	Opacity	%	S/D	S/D	20 (20)
HRSG #22 Emission Value @ 7%O <sub>2</sub> 1 atm, 25 C.			AVERAGE	MAX	CRITICAL
28	NO <sub>x</sub>	ppm	64.13	77.25	96 (152)
29	SO <sub>x</sub>	ppm	0.88	2.88	18 (18.8)
30	CO	ppm	9.70	9.92	690 (690)
0	Opacity	%	1.04	2.37	20 (20)

สำเนาเขียน : ชวค.คค-พพ,ช.คค-พพ,นรณ-พพ,นบณ.พพ,นรณ.พพ,นพณ.พพ.

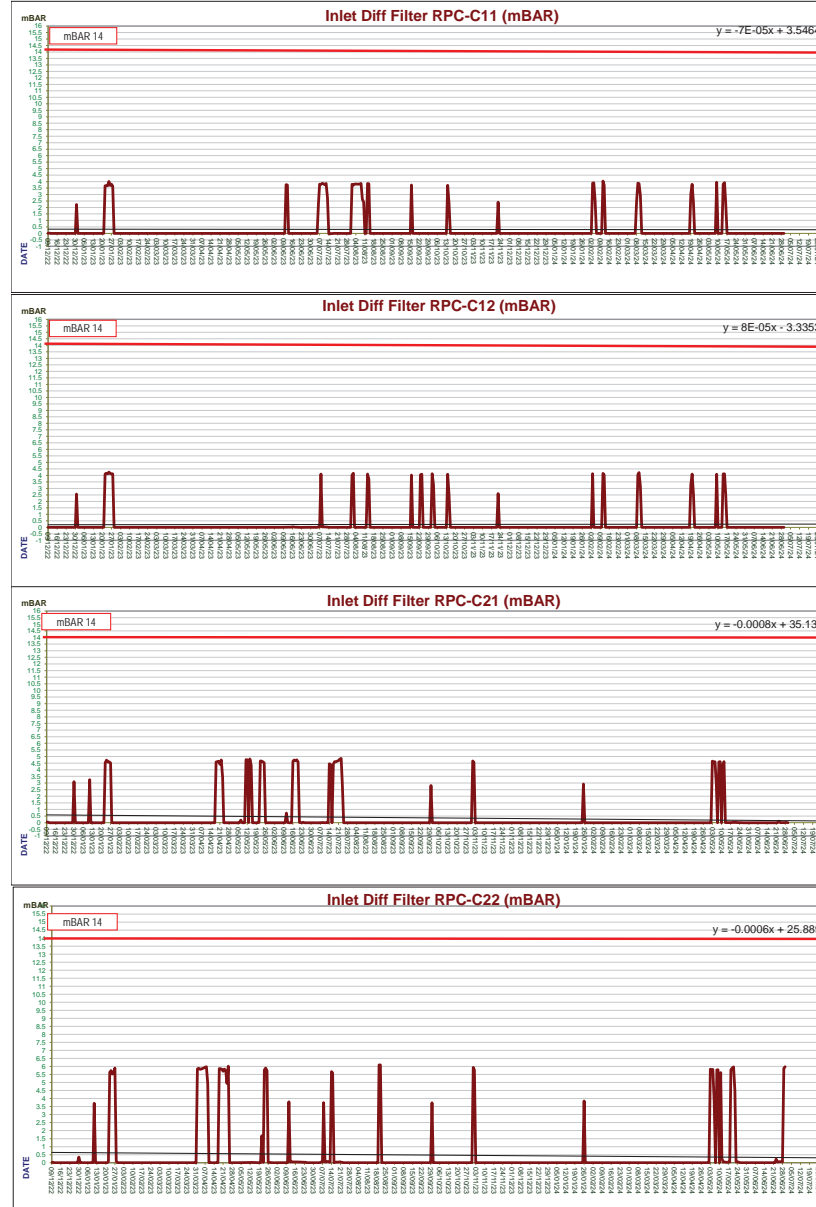
Remark :



GT AIR INLET FILTER

สำเนาเขียน : ชวค.คค-พพ,ช.คค-พพ.

นรณ-พพ,นบณ.พพ,นรณ.พพ,นพณ.พพ.



Remark : Replace Air Inlet filter GT#11 (20 Nov 2019) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#12 (18 Apr 2018) , Brand : Donaldson ; ( Class E12D ) ; Pre-Filter Brand : Freudenberg (Class F7) on 1 Jan 2021  
Replace Air Inlet filter GT#21 (20 Feb 2020) , Brand : Freudenberg (Class E11) ; Pre-Filter Brand : Freudenberg (Class F7)  
Replace Air Inlet filter GT#22 (17 Apr 2021) , Brand : Nordic ; (HEPA) ; (Class E11 ) ; Pre-Filter Brand : Freudenberg (Class F7) on 28 Jul 2020

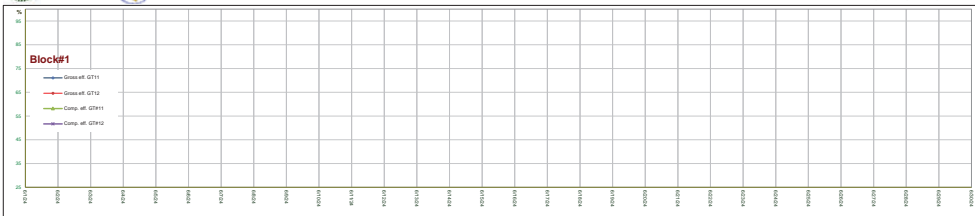




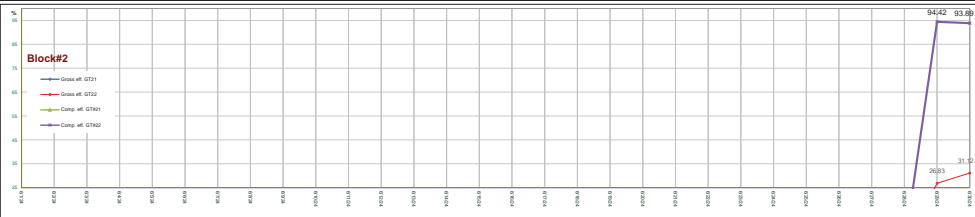
JUNE 2024

# RPCL GT Compressor Efficiency % and GT Gross Efficiency %

Unit: %  
Unit: %  
Unit: %



DATE	6/1/24	6/2/24	6/3/24	6/4/24	6/5/24	6/6/24	6/7/24	6/8/24	6/9/24	6/10/24	6/11/24	6/12/24	6/13/24	6/14/24	6/15/24	6/16/24	6/17/24	6/18/24	6/19/24	6/20/24	6/21/24	6/22/24	6/23/24	6/24/24	6/25/24	6/26/24	6/27/24	6/28/24	6/29/24	6/30/24				
Gross eff. GT11	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					
Gross eff. GT12	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100				
Comp. eff. GT11	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100				
Comp. eff. GT12	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100				
MR (Block#1)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100				



DATE	6/1/24	6/2/24	6/3/24	6/4/24	6/5/24	6/6/24	6/7/24	6/8/24	6/9/24	6/10/24	6/11/24	6/12/24	6/13/24	6/14/24	6/15/24	6/16/24	6/17/24	6/18/24	6/19/24	6/20/24	6/21/24	6/22/24	6/23/24	6/24/24	6/25/24	6/26/24	6/27/24	6/28/24	6/29/24	6/30/24				
Gross eff. GT21	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					
Gross eff. GT22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	20.88	21.72			
Comp. eff. GT21	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					
Comp. eff. GT22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					
Comp. eff. GT22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	80.43	83.68			
MR (Block#2)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					

Remark :  
GT1 : Breakdown  
GT1 : Start-up limit  
Off-Line Blade Washing Date  
On-Line Blade Washing Date

## ภาคผนวก ค-2

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ปริมาณกระแสไฟฟ้าจากแผงเซลล์แสงอาทิตย์ชนิดติดตั้งบนหลังคา

**Total Generated Power From Inverter Y2024 (kWh) : Rooftop**

		31	29	31	30	31	30	31	31	30	31	30	31
Location	Inverter no.	January	February	March	April	May	June	July	August	September	October	November	December
Warehouse	Inverter 1 (100 kW)	14046.64	15179.20	16111.67	17468.41	14947.66	13316.45						
	Inverter 2 (60 kW)	7947.41	8628.94	9155.24	9886.01	8496.02	7600.36						
	Inverter 3 (100 kW)	11700.00	12833.05	14181.63	15833.00	13704.73	12078.05						
Laydown	Inverter 1 (60 kW)	7365.55	8303.55	9108.52	10054.07	8865.46	8255.60						
	Inverter 2 (60 kW)	6751.99	7739.37	8855.51	10163.98	9204.01	8643.06						
	Inverter 3 (60 kW)	6278.76	7170.79	8145.45	9303.23	8383.90	7844.54						
	Inverter 4 (60 kW)	6463.74	7416.60	8525.96	9719.45	8448.16	7285.31						
Container	Inverter 1 (60 kW)	5959.81	6787.79	7549.36	8419.90	7454.08	6842.44						
Canteen	Inverter 1 (60 kW)	8417.51	9157.56	9741.01	10579.51	8952.36	7993.15						
Admin	Inverter 1 (100 kW)	13535.93	14928.82	16510.19	18187.72	16163.50	14629.16						
Carpark	Inverter 1 (60 kW)	5564.15	6387.38	7337.08	8368.86	7614.76	6735.31						
Security	Inverter 1 (36 kW)	4713.54	5184.70	5940.03	5953.63	4990.53	4527.14						
Multi-Purpose	Inverter 1 (40 kW)	5478.09	6202.93	6806.24	7553.54	6696.18	6248.00						
Total (kWh)		104,223.12	115,920.68	127,967.89	141,491.31	123,921.35	111,998.57	-	-	-	-	-	-

Assumption Solar Production in Peak Period  
(5days/week).....factor 5/7

74445	82800	91406	101065	88515	79999	0	0	0	0	0	0

Assumption Solar Production in Peak Period  
(2days/week).....factor 2/7

29778	33120	36562	40426	35406	32000	0	0	0	0	0	0

Backup Power in **Peak Period...Baht/unit**

4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025
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Backup Power in **Off-Peak Period ...Baht/unit**

2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859
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FT Rate .....Baht/unit

0.3972	0.3972	0.3972	0.3972	0.3972	0.3972						

Monthly_Cost Saving in Peak Period....Baht	334,981	372,577	411,298	454,763	398,292	359,971	-	-	-	-	-	-
Monthly_Cost Saving in Off-Peak Period...Baht	88,831	98,801	109,069	120,595	105,620	95,458	-	-	-	-	-	-
<u>Total Monthly Cost Saving</u> (Bafore adjusting with plant service factor)	423,811	471,378	520,367	575,358	503,912	455,429	-	-	-	-	-	-
Capacity factors of the solar PV energy (%)	14.29%	17.00%	17.55%	20.05%	17.00%	15.87%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
RPCL GTCC Service factor - Blk1	0.00%	5.75%	4.70%	2.01%	3.23%	0.00%						
RPCL GTCC Service factor - Blk2	0.00%	0.00%	0.00%	0.00%	10.28%	2.08%						
Higher Service Factor	0.00%	5.75%	4.70%	2.01%	10.28%	2.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
RPCL GTCC Heat Rate (Btu/kWh)	0	7,501	7,238	7,804	7,553	7,518						
NG Commodity Price (Baht per mmBtu)	308.58	333.42	304.27	297.32	305.10	305.10						
GTCC Variable Cost (Baht/kWh)	0.00	2.50	2.20	2.32	2.30	2.29	0.0	0.0	0.0	0.0	0.0	0.0
Saving deduction due GTCC running	0	3,329	3,458	1,553	6,993	1,287	0	0	0	0	0	0
<u>Total Monthly Cost Saving</u> (After adjusting with plant service factor)	423,811	468,049	516,909	573,806	496,919	454,143	-	-	-	-	-	-

**Total Generated Power From Inverter Y2024 (kWh) : On Ground**

		31	28	31	30	31	30	31	31	30	31	30	31
Location	Inverter no.	January	February	March	April	May	June	July	August	September	October	November	December
Solar on Ground	Inverter 1 (185 kW)	26689.81	28709.85	30781.94	31758.70	25988.30	24398.42						
	Inverter 2 (185 kW)	25431.81	27579.67	30020.14	31380.72	23286.28	24103.08						
	Inverter 3 (185 kW)	25582.70	27479.25	29676.37	31114.64	25439.36	23879.67						
	Inverter 4 (185 kW)	24584.02	26603.86	29261.95	31177.59	25467.45	23934.50						
	Inverter 5 (185 kW)	26404.13	29199.70	32068.30	33853.58	27503.08	25927.89						
	Inverter 6 (185 kW)	29308.58	31466.58	32838.45	33924.68	27684.60	25982.85						
	Inverter 7 (185 kW)	29167.06	31339.74	32687.09	33895.69	27619.65	25902.07						
Total (kWh)		187,168.11	202,378.65	217,334.24	227,105.60	182,988.72	174,128.48	-	-	-	-	-	-

Assumption Solar Production in Peak Period

(5days/week).....factor 5/7

133692	144556	155239	162218	130706	124377	0	0	0	0	0	0

Assumption Solar Production in Peak Period

(2days/week).....factor 2/7

53477	57822	62095	64887	52282	49751	0	0	0	0	0	0

Backup Power in **Peak Period**...**Baht/unit**

4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025	4.1025
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Backup Power in **Off-Peak Period** ...**Baht/unit**

2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859	2.5859
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FT Rate .....**Baht/unit**

0.3972	0.3972	0.3972	0.3972	0.3972	0.3972						

Monthly_Cost Saving in Peak Period.... <b>Baht</b>	601,572	650,459	698,528	729,934	588,139	559,661	-	-	-	-	-	-
Monthly_Cost Saving in Off-Peak Period... <b>Baht</b>	159,526	172,490	185,237	193,565	155,964	148,412	-	-	-	-	-	-
<b>Total Monthly Cost Saving</b> <small>(<b>Bafore</b> adjusting with plant service factor)</small>	<b>761,098</b>	<b>822,950</b>	<b>883,765</b>	<b>923,499</b>	<b>744,103</b>	<b>708,074</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Capacity factors of the solar PV energy (%)	16.93%	30.73%	29.81%	32.19%	25.10%	24.68%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
RPCL GTCC Service factor - Blk1	0.00%	5.75%	4.70%	2.01%	3.23%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
RPCL GTCC Service factor - Blk2	0.00%	0.00%	0.00%	0.00%	10.28%	2.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Higher Service Factor	0.00%	5.75%	4.70%	2.01%	10.28%	2.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
RPCL GTCC Heat Rate (Btu/kWh)	0	7500.60	7237.78	7804.08	7552.57	7517.97	0.00	0.00	0.00	0.00	0.00	0.00
NG Commodity Price (Baht per mmBtu)	308.58	333.42	304.27	297.32	305.10	305.10	0.00	0.00	0.00	0.00	0.00	0.00
GTCC Variable Cost (Baht/kWh)	0.00	2.50	2.20	2.32	2.30	2.29	0.0	0.0	0.0	0.0	0.0	0.0
Saving deduction due GTCC running	0	5,812	5,872	2,492	10,327	2,001	0	0	0	0	0	0
<b>Total Monthly Cost Saving</b> <small>(<b>After</b> adjusting with plant service factor)</small>	<b>761,098</b>	<b>817,138</b>	<b>877,892</b>	<b>921,007</b>	<b>733,776</b>	<b>706,073</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

### ภาคผนวก ค-3

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ข้อมูลปริมาณพลังงานไฟฟ้าที่ผลิตได้จากแผงประจำเดือน  
และรายงานข้อมูลความเข้มของแสงอาทิตย์รายวัน (kWh/m<sup>2</sup>/d)



**บริษัท ราชบุรีเพาวเวอร์ จำกัด**  
**Ratchaburi Power Co., Ltd.**

1828 ถนนสุขุมวิท แขวงพรหมินบุรี เขตพระโขนง กรุงเทพมหานคร 10260 โทร : 0-2311-5111 โทรสาร : 0-2332-3882  
1828 Sukhumvit Road, Phrakonong Tai, Phrakonong, Bangkok 10260 Tel : 0-2311-5111 Fax : 0-2332-3882

เลขที่ RPCL-S-056/2024

วันที่ 9 กรกฎาคม 2567

เรื่อง ขอนำส่งข้อมูลปริมาณไฟฟ้าที่ผลิตได้จากแผงประจำเดือนและรายงานข้อมูลความเข้มของแสงอาทิตย์

เรียน เลขาธิการสำนักงานคณะกรรมการกำกับกิจการพลังงาน

สิ่งที่ส่งมาด้วย 1.ข้อมูลพลังงานไฟฟ้าที่ผลิตได้จากแผงประจำเดือน  
2.ข้อมูลความเข้มแสงอาทิตย์รายวัน และข้อมูลปริมาณกำลังไฟฟ้าสูงสุด

ตามที่บริษัท ราชบุรีเพาวเวอร์ จำกัด ได้รับการเห็นชอบการขอเปลี่ยนแปลงรายละเอียดโครงการในรายงานประเมินผลกระทบสิ่งแวดล้อม โครงการขยายโรงไฟฟ้าราชบุรี (ครั้งที่2) ในหัวข้อที่ 5.6 มาตรการด้านการศึกษาประสิทธิภาพโครงการ โดยมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อมระบุ “จัดทำและนำส่งข้อมูลซึ่งแสดงข้อมูลปริมาณกำลังไฟฟ้าสูงสุด และปริมาณพลังงานไฟฟ้าที่ส่งเข้าสู่ระบบโครงข่ายไฟฟ้า และข้อมูลปริมาณพลังงานไฟฟ้าที่ได้ผลิตได้จากแผงประจำเดือนรวมถึงรายงานข้อมูลความเข้มของแสงอาทิตย์รายวัน ( $\text{kWh/m}^2/\text{d}$ ) ให้สำนักงานคณะกรรมการกำกับกิจการพลังงานทราบทุก 6 เดือน ตลอดระยะเวลาดำเนินการ”

บัดนี้ บริษัทฯได้รวบรวมข้อมูลดังกล่าวแล้วเสร็จ จึงขอนำส่งรายงานดังกล่าว มายังสำนักงานคณะกรรมการกำกับกิจการพลังงาน เพื่อพิจารณาต่อไป (สิ่งที่ส่งมาด้วย 1 และ 2)

จึงเรียนมาเพื่อโปรดพิจารณา

ขอแสดงความนับถือ

  
(นายคงคา คุณพันธ์)

กรรมการผู้จัดการ

รายงานปริมาณพลังงานไฟฟ้าที่ผลิตได้จากแผง

ลำดับ	เดือน	รายงานปริมาณพลังงานไฟฟ้าที่ผลิต (kWh)
1	มกราคม	291,741
2	กุมภาพันธ์	318,724
3	มีนาคม	345,773
4	เมษายน	369,093
5	พฤษภาคม	307,320
6	มิถุนายน	286,496

รายงานประจำเดือนมกราคม 2567

Statistical Period	Total String Capacity (kWp)	Global Irradiation (kWh/m <sup>2</sup> )	Peak Power (kW)
2024-01-01	1,4816.215	6.096	1075.052
2024-01-02	1,4816.215	5.571	1207.146
2024-01-03	1,4816.215	5.692	1051.042
2024-01-04	1,4816.215	5.754	1024.716
2024-01-05	1,4816.215	4.982	1106.152
2024-01-06	1,4816.215	5.68	1002.647
2024-01-07	1,4816.215	5.567	1035.574
2024-01-08	1,4816.215	5.959	1036.118
2024-01-09	1,4816.215	5.913	1031.624
2024-01-10	1,4816.215	5.988	1040.456
2024-01-11	1,4816.215	5.779	1014.267
2024-01-12	1,4816.215	5.826	1094.151
2024-01-13	1,4816.215	5.177	1117.693
2024-01-14	1,4816.215	4.036	1073.16
2024-01-15	1,4816.215	5.818	1097.246
2024-01-16	1,4816.215	6.084	1131.375
2024-01-17	1,4816.215	5.514	1069.712
2024-01-18	1,4816.215	6.002	1123.778
2024-01-19	1,4816.215	5.952	1093.059
2024-01-20	1,4816.215	5.479	1056.052
2024-01-21	1,4816.215	6.299	1118.897
2024-01-22	1,4816.215	6.137	1084.848
2024-01-23	1,4816.215	2.051	955.26
2024-01-24	1,4816.215	1.721	572.533
2024-01-25	1,4816.215	3.259	1169.077
2024-01-26	1,4816.215	5.314	1158.648
2024-01-27	1,4816.215	5.327	1125.022
2024-01-28	1,4816.215	5.492	1090.569
2024-01-29	1,4816.215	4.3	1135.94
2024-01-30	1,4816.215	4.46	1119.415
2024-01-31	1,4816.215	5.742	1038.176



รายงานประจำเดือนกุมภาพันธ์ 2567

Statistical Period	Total String Capacity (kWp)	Global Irradiation (kWh/m <sup>2</sup> )	Peak Power (kW)
2024-02-01	1,4816.215	5.752	1105.422
2024-02-02	1,4816.215	5.924	1134.617
2024-02-03	1,4816.215	6.052	1154.56
2024-02-04	1,4816.215	6.295	1106.728
2024-02-05	1,4816.215	6.566	1122.154
2024-02-06	1,4816.215	6.285	1078.649
2024-02-07	1,4816.215	6.636	1103.828
2024-02-08	1,4816.215	6.621	1119.787
2024-02-09	1,4816.215	6.569	1133.373
2024-02-10	1,4816.215	4.332	1250.906
2024-02-11	1,4816.215	5.579	1038.359
2024-02-12	1,4816.215	5.762	1047.386
2024-02-13	1,4816.215	6.268	1080.117
2024-02-14	1,4816.215	6.029	1077.013
2024-02-15	1,4816.215	5.71	1001.657
2024-02-16	1,4816.215	5.694	1125.357
2024-02-17	1,4816.215	5.663	1143.267
2024-02-18	1,4816.215	5.813	1277.354
2024-02-19	1,4816.215	6.762	1228.419
2024-02-20	1,4816.215	6.807	1153.418
2024-02-21	1,4816.215	6.904	1206.992
2024-02-22	1,4816.215	6.593	1269.472
2024-02-23	1,4816.215	6.529	1233.489
2024-02-24	1,4816.215	5.914	1149.879
2024-02-25	1,4816.215	6.55	1076.396
2024-02-26	1,4816.215	5.929	1153.009
2024-02-27	1,4816.215	5.963	1153.225
2024-02-28	1,4816.215	6.731	1184.533
2024-02-29	1,4816.215	6.47	1161.105

รายงานประจำเดือนมีนาคม 2567

Statistical Period	Total String Capacity (kWp)	Global Irradiation (kWh/m <sup>2</sup> )	Peak Power (kW)
2024-3-01	1,4816.215	6.212	1037.4
2024-3-02	1,4816.215	6.074	1130.981
2024-3-03	1,4816.215	5.599	1156.626
2024-3-04	1,4816.215	6.072	1100.192
2024-3-05	1,4816.215	6.947	1147.642
2024-3-06	1,4816.215	6.589	1214.895
2024-3-07	1,4816.215	6.738	1110.366
2024-3-08	1,4816.215	5.886	1192.611
2024-3-09	1,4816.215	4.537	1160.309
2024-3-10	1,4816.215	6.553	1133.758
2024-3-11	1,4816.215	6.442	1195.871
2024-3-12	1,4816.215	5.088	1163.142
2024-3-13	1,4816.215	5.523	1218.371
2024-3-14	1,4816.215	6.866	-
2024-3-15	1,4816.215	6.863	-
2024-3-16	1,4816.215	2.094	-
2024-3-17	1,4816.215	6.891	1152.988
2024-3-18	1,4816.215	6.769	-
2024-3-19	1,4816.215	5.87	-
2024-3-20	1,4816.215	2.04	732.261
2024-3-21	1,4816.215	4.924	-
2024-3-22	1,4816.215	6.02	-
2024-3-23	1,4816.215	6.658	1181.33
2024-3-24	1,4816.215	6.792	-
2024-3-25	1,4816.215	6.784	1207.671
2024-3-26	1,4816.215	6.354	-
2024-3-27	1,4816.215	5.783	-
2024-3-28	1,4816.215	4.953	1183.61
2024-3-29	1,4816.215	6.547	-
2024-3-30	1,4816.215	7.028	-
2024-3-31	1,4816.215	6.938	1149.102

รายงานประจำเดือนเมษายน 2567

Statistical Period	Total String Capacity (kWp)	Global Irradiation (kWh/m <sup>2</sup> )	Peak Power (kW)
2024-4-01	1,4816.215	6.814	1149.403
2024-4-02	1,4816.215	6.674	1107.935
2024-4-03	1,4816.215	6.277	1095.962
2024-4-04	1,4816.215	6.724	1116.205
2024-4-05	1,4816.215	6.288	1099.501
2024-4-06	1,4816.215	6.516	1219.646
2024-4-07	1,4816.215	6.831	1129.297
2024-4-08	1,4816.215	6.643	1090.253
2024-4-09	1,4816.215	6.142	1064.795
2024-4-10	1,4816.215	5.611	1146.668
2024-4-11	1,4816.215	5.982	1090.999
2024-4-12	1,4816.215	6.315	1080.216
2024-4-13	1,4816.215	5.785	1041.336
2024-4-14	1,4816.215	5.994	1041.721
2024-4-15	1,4816.215	6.608	1090.55
2024-4-16	1,4816.215	6.593	1086.008
2024-4-17	1,4816.215	6.184	1080.681
2024-4-18	1,4816.215	6.569	1081.773
2024-4-19	1,4816.215	6.535	1079.749
2024-4-20	1,4816.215	6.513	1086.726
2024-4-21	1,4816.215	6.519	1084.482
2024-4-22	1,4816.215	6.439	1043.289
2024-4-23	1,4816.215	5.843	1044.994
2024-4-24	1,4816.215	6.726	1113.341
2024-4-25	1,4816.215	6.331	1166.708
2024-4-26	1,4816.215	6.677	1096.174
2024-4-27	1,4816.215	6.666	1081.673
2024-4-28	1,4816.215	6.601	1084.066
2024-4-29	1,4816.215	6.7	1085.657
2024-4-30	1,4816.215	6.549	1083.579

รายงานประจำเดือนพฤษภาคม 2567

Statistical Period	Total String Capacity (kWp)	Global Irradiation (kWh/m <sup>2</sup> )	Peak Power (kW)
2024-5-01	1,4816.215	6.331	1042.165
2024-5-02	1,4816.215	6.366	1058.113
2024-5-03	1,4816.215	6.402	1038.251
2024-5-04	1,4816.215	6.038	1003.433
2024-5-05	1,4816.215	6.255	1052.704
2024-5-06	1,4816.215	4.643	1105.489
2024-5-07	1,4816.215	4.446	1250.94
2024-5-08	1,4816.215	5.87	1194.505
2024-5-09	1,4816.215	6.412	1155.264
2024-5-10	1,4816.215	5.196	1252.775
2024-5-11	1,4816.215	4.425	1233.193
2024-5-12	1,4816.215	6.25	1168.867
2024-5-13	1,4816.215	4.264	1005.122
2024-5-14	1,4816.215	6.146	1164.169
2024-5-15	1,4816.215	6.216	1086.653
2024-5-16	1,4816.215	4.002	1165.03
2024-5-17	1,4816.215	4.394	1195.598
2024-5-18	1,4816.215	4.554	1217.007
2024-5-19	1,4816.215	5.527	1185.275
2024-5-20	1,4816.215	4.189	1154.057
2024-5-21	1,4816.215	2.93	1026.565
2024-5-22	1,4816.215	4.281	1163.002
2024-5-23	1,4816.215	1.829	843.307
2024-5-24	1,4816.215	2.098	965.854
2024-5-25	1,4816.215	4.485	1082.262
2024-5-26	1,4816.215	5.295	1001.216
2024-5-27	1,4816.215	5.796	1260.799
2024-5-28	1,4816.215	5.095	1280.108
2024-5-29	1,4816.215	5.146	1200.579
2024-5-30	1,4816.215	5.078	1277.306
2024-5-31	1,4816.215	4.789	1101.368

รายงานประจำเดือนมิถุนายน 2567

Statistical Period	Total String Capacity (kWp)	Global Irradiation (kWh/㎡)	Peak Power (kW)
2024-6-01	1,4816.215	4.015	1038.34
2024-6-02	1,4816.215	4.141	1103.657
2024-6-03	1,4816.215	3.882	1223.551
2024-6-04	1,4816.215	5.099	1247.894
2024-6-05	1,4816.215	5.587	1277.505
2024-6-06	1,4816.215	5.074	1278.552
2024-6-07	1,4816.215	4.279	1231.83
2024-6-08	1,4816.215	4.481	1213.993
2024-6-09	1,4816.215	4.746	1198.858
2024-6-10	1,4816.215	3.776	897.574
2024-6-11	1,4816.215	4.307	1224.094
2024-6-12	1,4816.215	4.311	1287.197
2024-6-13	1,4816.215	5.614	1295
2024-6-14	1,4816.215	5.648	1287.728
2024-6-15	1,4816.215	6.187	1295
2024-6-16	1,4816.215	6.112	1088.941
2024-6-17	1,4816.215	4.069	1071.999
2024-6-18	1,4816.215	5.061	1149.239
2024-6-19	1,4816.215	4.697	1222.753
2024-6-20	1,4816.215	5.695	1200.249
2024-6-21	1,4816.215	4.937	1268.296
2024-6-22	1,4816.215	5.219	1242.032
2024-6-23	1,4816.215	4.492	1119.251
2024-6-24	1,4816.215	3.968	791.01
2024-6-25	1,4816.215	3.934	1113.518
2024-6-26	1,4816.215	2.999	770.654
2024-6-27	1,4816.215	4.456	1158.205
2024-6-28	1,4816.215	5.243	1189.353
2024-6-29	1,4816.215	4.607	1251.497
2024-6-30	1,4816.215	4.753	1174.542

## ภาคผนวก ง

โครงการศึกษาเพื่อสำรวจและวิเคราะห์สาเหตุและ  
ปัจจัยที่ทำให้เกิดโอโซนในพื้นที่โดยรอบโรงไฟฟ้าราชบุรี



บริษัท ราชบุรีเพาเวอร์ จำกัด

Ratchaburi Power Co.,Ltd.

## รายงานฉบับสมบูรณ์

โครงการศึกษาเพื่อสำรวจและวิเคราะห์สาเหตุและปัจจัยที่ทำให้เกิดโอโซน  
ในพื้นที่โดยรอบโรงไฟฟ้าราชบุรีและพื้นที่จังหวัดราชบุรี



บริษัท ซีคอต จำกัด

กรกฎาคม 2551

## ภาคผนวก จ-1

ผลการตรวจวัดคุณภาพอากาศ  
แบบอัตโนมัติอย่างต่อเนื่อง (CEMs)





## STANDARD GAS FOR CEMs REMAINING REPORT

Jan-24

STANDARD		Full condition			HRSG 11					HRSG 12					HRSG 21					HRSG 22					TOTAL
					(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	GAS
								Cylinder Number					Cylinder Number					Cylinder Number					Cylinder Number		
								Estimated Reorder due date					Estimated Reorder due date					Estimated Reorder due date					Estimated Reorder due date		
GAS		(Psi)	Time	Liter																		Liter			
CEMs	N <sub>2</sub>	2000	35 56	31 50	2010	60	31.16	14-Apr-30 4621318Y Oct-24		2150	65	33.33	14-Apr-30 4621276Y Dec-24		480	9	7.44	31-Dec-27 5662912Y Oct-23	Spare 5139943Y 28-Dec-30	1810	54	28.06	14-Apr-30 5662952Y Sep-24		99.98
	NO <sub>x</sub>	2000	34	31	400	4	6.20	26-Oct-28 CC739905 Oct-23	Spare D920684 28-Feb-26	2010	36.2	31.16	82/2/2026 D920685 Jan-25		1880	34	29.14	21-Feb-26 D271320 Dec-24		1970	35	30.54	21-Feb-26 D271360 Jan-25		97.03
	SO <sub>2</sub>	2000	22	31	2020	24	31.31	21-Mar-31 D898039 Jul-24		1420	16	22.01	21-Mar-31 D898040 Mar-24		1700	20	26.35	21-Mar-31 D898048 Apr-24		1000	11	15.50	26-Jan-31 CC757452 Dec-23	Spare D824444 18-Oct-31	95.17
	CO	2000	34 55	31 50	1400	24	21.70	25-Jan-30 CC456000 Jun-24	Spare CC91752 3-Jan-31	1720	30.4	26.66	16-Nov-29 CC746718 Oct-24		1800	32	27.90	3-Jan-31 CC472026 Oct-24		1660	29.2	25.73	16-Nov-29 CC746735 Sep-24		101.99
	O <sub>2</sub>	2000	34	47	490	6	11.52	20-Mar-25 SN599 Oct-23	Spare 1491885 4-Feb-31	1190	20	27.97	20-Oct-28 447627 May-24		1340	23	31.49	20-Oct-28 6547 Jul-24		450	5	10.58	19-Oct-28 CC739904 Oct-23	Spare 379505 12-Jul-31	81.55

\*Note : Normal Pressure is 2000 PSI.

N<sub>2</sub>: Calibrate 1 time / 1 week NO<sub>x</sub>, SO<sub>2</sub>, CO, O<sub>2</sub> : Calibrate 1 time / 2 week \*EPD:Expired date , CN:Cylinder Number , ES PE:Estimated Recorder Due Date

Spare Standard Gas \*N<sub>2</sub> Has Store 31,50 Litre (5139943Y 28-DEC-2030)  
 \*Nox Has Store 31 Litre (D920684 28-FEB-2026)  
 \*SO<sub>2</sub> Has Store 31 Litre (D824444 18-OCT-2031)  
 \*CO Has Store 31,50 Litre (CC91752 3-JAN-2031)  
 \*O<sub>2</sub> Has Store 34 Litre (1491885 4-FEB-2031 , 379505 12-JUL-2031)

Recorded By

( นายรัฐณัฐ บุญเพ็ญ )

Approved By

( นายสวัสดิ์ อ้นดนน )

Issue date

4-Jan-24

Report CEM<sub>5</sub> Jan-24

HRSG 11

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow				Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-						690	690
Opacity	%	-	1/1/2024 00:00	-	-	-	-							
O <sub>2</sub>	%	-	1/1/2024 00:00	-	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	1/1/2024 00:00		-	-	-							

HRSG 12

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow				Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-						690	690
Opacity	%	-	1/1/2024 00:00	-	-	-	-							
O <sub>2</sub>	%	-	1/1/2024 00:00	-	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	1/1/2024 00:00		-	-	-							

\* Air Control Standard of (EIA)

Recorded By



( นายวรัญญู บุญเพ็ญ )

Approved By



( นายสวัสดิ์ อังคนนา )

Report CEM<sub>5</sub> Jan-24

HRSG 21

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximum			Average Values	Minimum Values		
		Values	Day	Flow				Values	Day	Flow			Fuel Gas	Fuel Oil
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-						690	690
Opacity	%	-	1/1/2024 00:00	-	-	-	-							
O <sub>2</sub>	%	-	1/1/2024 00:00	-	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	1/1/2024 00:00		-	-	-							

HRSG 22

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximun			Average Values	Minimum Values		
		Values	Day	Flow				Values	Day	Flow			Fuel Gas	Fuel Oil
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	1/1/2024 00:00	-	-	-	-						690	690
Opacity	%	-	1/1/2024 00:00	-	-	-	-							
O <sub>2</sub>	%	-	1/1/2024 00:00	-	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	1/1/2024 00:00		-	-	-							

\* Air Control Standard of (EIA)

Recorded By



( นายวรัญญ์ นุญเพ็ญ )

Approved By



( นายสวัสดิ์ อ้นตนา )



## STANDARD GAS FOR CEMs REMAINING REPORT

Feb-24

STANDARD		Full condition			HRSG 11					HRSG 12					HRSG 21					HRSG 22					TOTAL
					(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	TOTAL
								Cylinder Number					Cylinder Number					Cylinder Number					Cylinder Number		
								Estimated Reorder due date					Estimated Reorder due date					Estimated Reorder due date					Estimated Reorder due date		
GAS	(Psi)	Time	Liter	(Psi)	Time	Liter	(Psi)	Time	Liter	(Psi)	Time	Liter	(Psi)	Time	Liter	(Psi)	Time	Liter	(Psi)	Time	Liter	Liter			
CEMs	N <sub>2</sub>	2000	35 56	31 50	2000	60	31.00	14-Apr-30 4621318Y Nov-24		2080	63	32.24	14-Apr-30 4621276Y Dec-24		400	7	6.20	31-Dec-27 5662912Y Oct-23	Spare 5139943Y 28-Dec-30	1810	54	28.06	14-Apr-30 5662952Y Oct-24		97.50
	NO <sub>x</sub>	2000	34	31	300	2	4.65	26-Oct-28 CC739905 Oct-23	Spare D920684 28-Feb-26	1950	35	30.23	82/2/2026 D920685 Feb-25		1800	32	27.90	21-Feb-26 D271320 Dec-24		1970	35	30.54	21-Feb-26 D271360 Feb-25		93.31
	SO <sub>2</sub>	2000	22	31	1900	23	29.45	21-Mar-31 D898039 Jul-24		1320	15	20.46	21-Mar-31 D898040 Mar-24		1600	19	24.80	21-Mar-31 D898048 May-24		1000	11	15.50	26-Jan-31 CC757452 Jan-24	Spare D824444 18-Oct-31	90.21
	CO	2000	34 55	31 50	1300	22	20.15	25-Jan-30 CC456000 Jun-24	Spare CC91752 3-Jan-31	1650	29	25.58	16-Nov-29 CC746718 Oct-24		1700	30	26.35	3-Jan-31 CC472026 Oct-24		1660	29.2	25.73	16-Nov-29 CC746735 Oct-24		97.81
	O <sub>2</sub>	2000	34	47	450	5	10.58	20-Mar-25 SN599 Nov-23	Spare 1491885 4-Feb-31	1150	19	27.03	20-Oct-28 447627 Jun-24		1300	22	30.55	20-Oct-28 6547 Jul-24		450	5	10.58	19-Oct-28 CC739904 Nov-23	Spare 379505 12-Jul-31	78.73

\*Note : Normal Pressure is 2000 PSI.

N<sub>2</sub>: Calibrate 1 time / 1 week NO<sub>x</sub>, SO<sub>2</sub>, CO, O<sub>2</sub> : Calibrate 1 time / 2 week \*EPD:Expired date , CN:Cylinder Number , ES PE:Estimated Recorder Due Date

Spare Standard Gas \*N<sub>2</sub> Has Store 31,50 Litre (5139943Y 28-DEC-2030)  
 \*Nox Has Store 31 Litre (D920684 28-FEB-2026)  
 \*SO<sub>2</sub> Has Store 31 Litre (D824444 18-OCT-2031)  
 \*CO Has Store 31,50 Litre (CC91752 3-JAN-2031)  
 \*O<sub>2</sub> Has Store 34 Litre (1491885 4-FEB-2031 , 379505 12-JUL-2031)

Recorded By

( นายรัฐณัฐ บุญเพ็ญ )

Approved By

( นายสวัสดิ์ อ้นดนน )

Issue date

5-Feb-24

Report CEM<sub>5</sub> Feb-24

HRSG 11

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow				Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	4.77	12/2/2024 22:00	929.76	3.46	2.81	3.90							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	77.59	4/2/2024 18:00	1,553.70	63.39	47.29	74.03						96	152
CO 7%O <sub>2</sub>	ppm.	8.13	12/2/2024 06:00	913.51	5.06	3.87	5.91						690	690
Opacity	%	5.11	12/2/2024 06:00	889.25	2.39	1.29	3.36							
O <sub>2</sub>	%	13.99	12/2/2024 10:00	1,049.70	13.67	13.17	13.94							
Flow	1000M <sup>3</sup> /Hr	1,631.52	3/2/2024 16:00		1,169.70	822.65	1,561.20							

HRSG 12

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow				Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	1.94	12/2/2024 03:00	1,065.72	1.49	0.80	1.84							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	78.66	11/2/2024 17:00	1,512.27	59.63	38.99	70.79						96	152
CO 7%O <sub>2</sub>	ppm.	6.26	12/2/2024 06:00	871.86	3.57	2.33	4.32						690	690
Opacity	%	3.60	11/2/2024 15:00	822.42	1.39	0.69	2.20							
O <sub>2</sub>	%	14.00	11/2/2024 18:00	1,420.49	13.72	13.34	13.97							
Flow	1000M <sup>3</sup> /Hr	1,543.17	12/2/2024 01:00		1,223.81	806.40	1,490.34							

\* Air Control Standard of (EIA)

Recorded By



( นายวรัญญู บุญเพ็ญ )

Approved By



( นายสวัสดิ์ อ้นटना )

Report CEM<sub>5</sub> Feb-24

HRSG 21

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximum			Average Values	Minimum Values	Standard	
		Values	Day	Flow				Values	Day	Flow			Fuel Gas	Fuel Oil
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	1/2/2024 00:00	-	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	1/2/2024 00:00	-	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	1/2/2024 00:00	-	-	-	-						690	690
Opacity	%	-	1/2/2024 00:00	-	-	-	-							
O <sub>2</sub>	%	-	1/2/2024 00:00	-	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	1/2/2024 00:00		-	-	-							

HRSG 22

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximum			Average Values	Minimum Values	Standard	
		Values	Day	Flow				Values	Day	Flow			Fuel Gas	Fuel Oil
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	1/2/2024 00:00	-	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	1/2/2024 00:00	-	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	1/2/2024 00:00	-	-	-	-						690	690
Opacity	%	-	1/2/2024 00:00	-	-	-	-							
O <sub>2</sub>	%	-	1/2/2024 00:00	-	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	1/2/2024 00:00		-	-	-							

\* Air Control Standard of (EIA)

Recorded By



( นายวรัญญู นุญเพ็ญ )

Approved By



( นายสวัสดิ์ อ้นตนา )



## STANDARD GAS FOR CEMs REMAINING REPORT

Mar-24

STANDARD		Full condition			HRSG 11					HRSG 12					HRSG 21					HRSG 22					TOTAL
					(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	
								Cylinder Number					Cylinder Number					Cylinder Number					Cylinder Number		
		Estimated Reorder due date	Estimated Reorder due date	Estimated Reorder due date				Estimated Reorder due date																	
GAS	(Psi)	Time	Liter																				Liter		
CEMs	N <sub>2</sub>	2000	35 56	31 50	1990	60	30.85	14-Apr-30 4621318Y Dec-24		2050	62	31.78	14-Apr-30 4621276Y Jan-25		380	6	5.89	31-Dec-27 5662912Y Nov-23	Spare 5139943Y 28-Dec-30	1810	54	28.06	14-Apr-30 5662952Y Nov-24		96.57
	NO <sub>x</sub>	2000	34	31	2020	36	31.31	28-Feb-26 D920684 Apr-25		1940	34.8	30.07	82/2/2026 D920685 Mar-25		1780	32	27.59	21-Feb-26 D271320 Jan-25		1970	35	30.54	21-Feb-26 D271360 Mar-25		119.51
	SO <sub>2</sub>	2000	22	31	1850	22	28.68	21-Mar-31 D898039 Jul-24		1300	15	20.15	21-Mar-31 D898040 Apr-24	During issue PO.	1580	18	24.49	21-Mar-31 D898048 Jun-24		1000	11	15.50	26-Jan-31 CC757452 Feb-24	Spare D824444 18-Oct-31	88.82
	CO	2000	34 55	31 50	1250	21	19.38	25-Jan-30 CC456000 Jul-24	Spare CC91752 3-Jan-31	1620	28.4	25.11	16-Nov-29 CC746718 Nov-24		1660	29.2	25.73	3-Jan-31 CC472026 Nov-24		1660	29.2	25.73	16-Nov-29 CC746735 Nov-24		95.95
	O <sub>2</sub>	2000	34	47	430	5	10.11	20-Mar-25 SN599 Dec-23	Spare 1491885 4-Feb-31	1120	18	26.32	20-Oct-28 447627 Jul-24		1280	22	30.08	20-Oct-28 6547 Aug-24		450	5	10.58	19-Oct-28 CC739904 Dec-23	Spare 379505 12-Jul-31	77.08

\*Note : Normal Pressure is 2000 PSI.

N2: Calibrate 1 time / 1 week NOX ,SO2 ,CO,O2 : Calibrate 1 time / 2 week \*EPD:Expired date , CN:Cylinder Number , ES PE:Estimated Recorder Due Date

Spare Standard Gas \*N2 Has Store 31,50 Litre (5139943Y 28-DEC-2030)

\*Nox Has Store 31 Litre

\*SO2 Has Store 31 Litre (D824444 18-OCT-2031)

\*CO Has Store 31,50 Litre (CC91752 3-JAN-2031)

\*O2 Has Store 34 Litre (1491885 4-FEB-2031 , 379505 12-JUL-2031)

Recorded By

( นายขวัญ บุญเพ็ญ )

Approved By

( นายสวัสดิ์ อันทนนา )

Issue date

3-Apr-24

Report CEM<sub>5</sub> Mar-24

HRSG 11

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow				Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	9.71	9/3/2024 16:00	877.81	3.98	3.22	4.09							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	75.06	10/3/2024 15:00	1,551.41	58.23	47.21	73.18						96	152
CO 7%O <sub>2</sub>	ppm.	7.66	10/3/2024 12:00	977.14	5.50	3.67	7.06						690	690
Opacity	%	3.76	10/3/2024 12:00	889.48	2.06	1.54	2.58							
O <sub>2</sub>	%	14.00	10/3/2024 11:00	981.95	13.73	13.53	13.87							
Flow	1000M <sup>3</sup> /Hr	1,619.84	9/3/2024 18:00		1,169.55	840.04	1,551.27							

HRSG 12

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow				Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	4.36	9/3/2024 16:00	812.58	1.88	1.30	2.22							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	71.93	10/3/2024 14:00	1,446.35	51.87	39.89	67.35						96	152
CO 7%O <sub>2</sub>	ppm.	5.40	11/3/2024 01:00	838.90	3.51	2.28	5.21						690	690
Opacity	%	2.82	11/3/2024 02:00	832.03	1.54	1.07	1.85							
O <sub>2</sub>	%	13.99	9/3/2024 21:00	880.55	13.81	13.62	13.90							
Flow	1000M <sup>3</sup> /Hr	1,512.27	10/3/2024 20:00		1,110.35	812.58	1,476.79							

\* Air Control Standard of (EIA)

Recorded By



( นายวรัญญู บุญเพ็ญ )

Approved By



( นายสวัสดิ์ อ้นटना )



Report CEM<sub>5</sub> Mar-24

HRSG 21

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximum			Average Values	Minimum Values	Standard	
		Values	Day	Flow				Values	Day	Flow			Fuel Gas	Fuel Oil
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	1/3/2024 00:00	-	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	1/3/2024 00:00	-	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	1/3/2024 00:00	-	-	-	-						690	690
Opacity	%	-	1/3/2024 00:00	-	-	-	-							
O <sub>2</sub>	%	-	1/3/2024 00:00	-	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	1/3/2024 00:00		-	-	-							

HRSG 22

Description	Unit / Hr.	Fuel Gas						Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	%tile 90 Values	Maximum			Average Values	Minimum Values	Standard	
		Values	Day	Flow				Values	Day	Flow			Fuel Gas	Fuel Oil
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	1/3/2024 00:00	-	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	1/3/2024 00:00	-	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	1/3/2024 00:00	-	-	-	-						690	690
Opacity	%	-	1/3/2024 00:00	-	-	-	-							
O <sub>2</sub>	%	-	1/3/2024 00:00	-	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	1/3/2024 00:00		-	-	-							

\* Air Control Standard of (EIA)

Recorded By

( นายวรัญญู นุญเพ็ญ )

Approved By

( นายสวัสดิ์ อ้นตนา )



## STANDARD GAS FOR CEMs REMAINING REPORT

Apr-24

STANDARD		Full condition			HRSG 11					HRSG 12					HRSG 21					HRSG 22					TOTAL
					(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	TOTAL
								Cylinder Number					Cylinder Number					Cylinder Number					Cylinder Number		
								Estimated Reorder due date					Estimated Reorder due date					Estimated Reorder due date					Estimated Reorder due date		
GAS		(Psi)	Time	Liter																		Liter			
CEMs	N <sub>2</sub>	2000	35 56	31 50	1980	59	30.69	14-Apr-30 4621318Y Jan-25		2020	61	31.31	14-Apr-30 4621276Y Jan-25		320	4	4.96	31-Dec-27 5662912Y Dec-23	Spare 5139943Y 28-Dec-30	1810	54	28.06	14-Apr-30 5662952Y Dec-24		95.02
	NO <sub>x</sub>	2000	34	31	2010	36	31.16	28-Feb-26 D920684 Apr-25		1920	34.4	29.76	82/2/2026 D920685 Apr-25		1770	31	27.44	21-Feb-26 D271320 Feb-25		1970	35	30.54	21-Feb-26 D271360 Apr-25		118.89
	SO <sub>2</sub>	2000	22	31	1780	21	27.59	21-Mar-31 D898039 Aug-24		1220	14	18.91	21-Mar-31 D898040 Apr-24	During issue PO.	1540	18	23.87	21-Mar-31 D898048 Jun-24		1000	11	15.50	26-Jan-31 CC757452 Mar-24	Spare D824444 18-Oct-31	85.87
	CO	2000	34 55	31 50	1220	20	18.91	25-Jan-30 CC456000 Aug-24	Spare CC91752 3-Jan-31	1540	26.8	23.87	16-Nov-29 CC746718 Nov-24		1620	28.4	25.11	3-Jan-31 CC472026 Dec-24		1660	29.2	25.73	16-Nov-29 CC746735 Dec-24		93.62
	O <sub>2</sub>	2000	34	47	400	4	9.40	20-Mar-25 SN599 Jan-24	Spare 1491885 4-Feb-31	1100	18	25.85	20-Oct-28 447627 Jul-24		1260	21	29.61	20-Oct-28 6547 Sep-24		450	5	10.58	19-Oct-28 CC739904 Jan-24	Spare 379505 12-Jul-31	75.44

\*Note : Normal Pressure is 2000 PSI.

N<sub>2</sub>: Calibrate 1 time / 1 week NO<sub>x</sub>, SO<sub>2</sub>, CO, O<sub>2</sub> : Calibrate 1 time / 2 week \*EPD:Expired date , CN:Cylinder Number , ES PE:Estimated Recorder Due Date

Spare Standard Gas \*N<sub>2</sub> Has Store 31,50 Litre (5139943Y 28-DEC-2030)

\*Nox Has Store 31 Litre

\*SO<sub>2</sub> Has Store 31 Litre (D824444 18-OCT-2031)

\*CO Has Store 31,50 Litre (CC91752 3-JAN-2031)

\*O<sub>2</sub> Has Store 34 Litre (1491885 4-FEB-2031 , 379505 12-JUL-2031)

Recorded By

( นายรัฐณัฐ บุญเพ็ญ )

Approved By

( นายสวัสดิ์ อ้นดนน )

Issue date

4-May-24

Report CEM<sub>5</sub>

Apr-24

HRSG 11

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	3.72	20 Apr 2024 17:00	873.92	3.41	3.20							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	76.42	20 Apr 2024 19:00	1,579.56	60.72	47.55						96	152
CO 7%O <sub>2</sub>	ppm.	6.45	19 Apr 2024 23:00	904.13	5.09	4.38						690	690
Opacity	%	4.20	19 Apr 2024 23:00	848.97	2.22	1.22							
O <sub>2</sub>	%	13.82	19 Apr 2024 23:00	904.13	13.64	13.54							
Flow	1000M <sup>3</sup> /Hr	1,579.56	20 Apr 2024 19:00		1,103.88	848.97							

HRSG 12

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	2.27	20 Apr 2024 17:00	806.85	1.39	0.84							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	71.89	20 Apr 2024 19:00	1,440.86	56.90	40.70						96	152
CO 7%O <sub>2</sub>	ppm.	4.29	19 Apr 2024 19:00	1,067.55	3.14	2.46						690	690
Opacity	%	1.31	20 Apr 2024 17:00	806.85	1.07	0.68							
O <sub>2</sub>	%	13.95	20 Apr 2024 23:00	827.22	13.82	13.72							
Flow	1000M <sup>3</sup> /Hr	1,463.97	20 Apr 2024 22:00		1,122.80	806.85							

\* Air Control Standard of (EIA)

Recorded By



( นายวรัญญู บุญเพ็ญ )

Approved By



( นายสวัสดิ์ อ้นดนน )

Report CEM<sub>5</sub>

Apr-24

HRSG 21

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-						690	690
Opacity	%	-	Reserve SD throughout the month	-	-	-							
O <sub>2</sub>	%	-	Reserve SD throughout the month	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	Reserve SD throughout the month		-	-							

HRSG 22

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-						690	690
Opacity	%	-	Reserve SD throughout the month	-	-	-							
O <sub>2</sub>	%	-	Reserve SD throughout the month	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	Reserve SD throughout the month		-	-							

\* Air Control Standard of (EIA)

Recorded By



( นายวรัญญู บุญเพ็ญ )

Approved By



( นายสวัสดิ์ อ้นดนน )



## STANDARD GAS FOR CEMs REMAINING REPORT

May-24

STANDARD		Full condition			HRSG 11					HRSG 12					HRSG 21					HRSG 22					TOTAL
					(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	
								Cylinder Number					Cylinder Number					Cylinder Number					Cylinder Number		
								Estimated Reorder due date					Estimated Reorder due date					Estimated Reorder due date					Estimated Reorder due date		
CEMs	N <sub>2</sub>	2000	35 56	31 50	1950	58	30.23	14-Apr-30 4621318Y Feb-25		1980	59	30.69	14-Apr-30 4621276Y Feb-25		260	2	4.03	31-Dec-27 5662912Y Dec-23	Spare 5139943Y 28-Dec-30	1810	54	28.06	14-Apr-30 5662952Y Jan-25		93.00
	NO <sub>x</sub>	2000	34	31	2000	36	31.00	28-Feb-26 D920684 May-25		1880	33.6	29.14	82/2/2026 D920685 Apr-25		1720	30	26.66	21-Feb-26 D271320 Mar-25		1970	35	30.54	21-Feb-26 D271360 May-25		117.34
	SO <sub>2</sub>	2000	22	31	1720	20	26.66	21-Mar-31 D898039 Sep-24		1120	12	17.36	21-Mar-31 D898040 May-24	During issue PO.	1440	17	22.32	21-Mar-31 D898048 Jul-24		1000	11	15.50	26-Jan-31 CC757452 Apr-24	Spare D824444 18-Oct-31	81.84
	CO	2000	34 55	31 50	1150	19	17.83	25-Jan-30 CC456000 Aug-24	Spare CC91752 3-Jan-31	1500	26	23.25	16-Nov-29 CC746718 Nov-24		1550	27	24.03	3-Jan-31 CC472026 Dec-24		1660	29.2	25.73	16-Nov-29 CC746735 Jan-25		90.83
	O <sub>2</sub>	2000	34	47	280	2	6.58	20-Mar-25 SN599 Dec-23	Spare 1491885 4-Feb-31	1040	17	24.44	20-Oct-28 447627 Aug-24		1220	20	28.67	20-Oct-28 6547 Oct-24		450	5	10.58	19-Oct-28 CC739904 Feb-24	Spare 379505 12-Jul-31	70.27

\*Note : Normal Pressure is 2000 PSI.

N<sub>2</sub>: Calibrate 1 time / 1 week NO<sub>x</sub>, SO<sub>2</sub>, CO, O<sub>2</sub> : Calibrate 1 time / 2 week \*EPD:Expired date , CN:Cylinder Number , ES PE:Estimated Recorder Due Date

Spare Standard Gas \*N<sub>2</sub> Has Store 31,50 Litre (5139943Y 28-DEC-2030)

\*Nox Has Store 31 Litre

\*SO<sub>2</sub> Has Store 31 Litre (D824444 18-OCT-2031)

\*CO Has Store 31,50 Litre (CC91752 3-JAN-2031)

\*O<sub>2</sub> Has Store 34 Litre (1491885 4-FEB-2031 , 379505 12-JUL-2031)

Recorded By

( นายรัฐณัฐ บุญเพ็ญ )

Approved By

( นายสวัสดิ์ อ้นดนน )

Issue date

4-Jun-24

Report CEM<sub>5</sub>

May-24

HRSG 11

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	4.41	16 May 2024 01:00	881.24	3.47	2.96							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	78.73	15 May 2024 18:00	1,593.75	62.18	49.05						96	152
CO 7%O <sub>2</sub>	ppm.	7.26	14 May 2024 23:00	960.21	5.29	3.77						690	690
Opacity	%	4.75	14 May 2024 23:00	873.69	2.21	1.05							
O <sub>2</sub>	%	13.99	15 May 2024 02:00	902.53	13.67	13.45							
Flow	1000M <sup>3</sup> /Hr	1,606.11	9 May 2024 20:00		1,128.92	846.68							

HRSG 12

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	2.68	16 May 2024 01:00	837.30	2.25	2.03							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	75.17	15 May 2024 17:00	1,463.75	53.99	40.45						96	152
CO 7%O <sub>2</sub>	ppm.	5.51	14 May 2024 21:00	1,176.50	3.66	2.76						690	690
Opacity	%	3.51	9 May 2024 19:00	804.11	1.49	0.92							
O <sub>2</sub>	%	13.97	15 May 2024 00:00	858.35	13.73	13.56							
Flow	1000M <sup>3</sup> /Hr	1,543.63	15 May 2024 21:00		1,165.76	804.11							

\* Air Control Standard of (EIA)

Recorded By



( นายวรัญญู บุญเพ็ญ )

Approved By



( นายสวัสดิ์ อ้นดนน )

Report CEM<sub>5</sub>

May-24

HRSG 21

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	2.98	9 May 2024 15:00	800.67	1.55	1.08							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	78.94	12 May 2024 20:00	1,584.37	60.61	42.11						96	152
CO 7%O <sub>2</sub>	ppm.	6.47	11 May 2024 23:00	854.23	1.23	0.31						690	690
Opacity	%	2.53	11 May 2024 19:00	829.28	0.46	0.10							
O <sub>2</sub>	%	13.85	11 May 2024 23:00	854.23	13.60	13.35							
Flow	1000M <sup>3</sup> /Hr	1,584.37	12 May 2024 20:00		1,259.18	800.67							

HRSG 22

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	2.87	9 May 2024 16:00	827.68	0.82	0.16							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	78.49	19 May 2024 13:00	1,526.69	62.45	48.22						96	152
CO 7%O <sub>2</sub>	ppm.	9.91	21 May 2024 22:00	1,011.48	8.73	7.73						690	690
Opacity	%	2.34	8 May 2024 17:00	802.51	0.38	0.10							
O <sub>2</sub>	%	13.95	9 May 2024 20:00	1,556.90	13.77	13.60							
Flow	1000M <sup>3</sup> /Hr	1,622.59	21 May 2024 01:00		1,266.32	802.51							

\* Air Control Standard of (EIA)

Recorded By



( นายวรัญญู บุญเพ็ญ )

Approved By



( นายสวัสดิ์ อ้นดนน )



## STANDARD GAS FOR CEMs REMAINING REPORT

Jun-24

STANDARD		Full condition			HRSG 11					HRSG 12					HRSG 21					HRSG 22					TOTAL
					(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	(Psi)	Time	Liter	Expired date	Order status / Spare Standard gas	
								Cylinder Number					Cylinder Number					Cylinder Number					Cylinder Number		
								Estimated Reorder due date					Estimated Reorder due date					Estimated Reorder due date					Estimated Reorder due date		
GAS		(Psi)	Time	Liter																			Liter		
CEMs	N <sub>2</sub>	2000	35 56	31 50	1920	57	29.76	14-Apr-30 4621318Y Mar-25		1880	56	29.14	14-Apr-30 4621276Y Feb-25		2150	65	33.33	28-Dec-30 5139943Y May-25		1810	54	28.06	14-Apr-30 5662952Y Feb-25		120.28
	NO <sub>x</sub>	2000	34	31	1930	35	29.92	28-Feb-26 D920684 Jun-25		1800	32	27.90	82/2/2026 D920685 Apr-25		1650	29	25.58	21-Feb-26 D271320 Mar-25		1970	35	30.54	21-Feb-26 D271360 Jun-25		113.93
	SO <sub>2</sub>	2000	22	31	1600	19	24.80	21-Mar-31 D898039 Sep-24		1020	11	15.81	21-Mar-31 D898040 May-24	เลขที่ PO 4150389638 24-May-24	1320	15	20.46	21-Mar-31 D898048 Jul-24		1000	11	15.50	26-Jan-31 CC757452 May-24	Spare D824444 18-Oct-31	76.57
	CO	2000	34 55	31 50	1100	18	17.05	25-Jan-30 CC456000 Aug-24	Spare CC91752 3-Jan-31	1420	24.4	22.01	16-Nov-29 CC746718 Dec-24		1450	25	22.48	3-Jan-31 CC472026 Dec-24		1660	29.2	25.73	16-Nov-29 CC746735 Feb-25		87.27
	O <sub>2</sub>	2000	34	47	2100	38	49.35	4-Feb-31 1491885 Jul-25		1000	16	23.50	20-Oct-28 447627 Aug-24		1150	19	27.03	20-Oct-28 6547 Oct-24		450	5	10.58	19-Oct-28 CC739904 Mar-24	Spare 379505 12-Jul-31	110.45

\*Note : Normal Pressure is 2000 PSI.

N<sub>2</sub>: Calibrate 1 time / 1 week NO<sub>x</sub>, SO<sub>2</sub>, CO, O<sub>2</sub> : Calibrate 1 time / 2 week \*EPD:Expired date , CN:Cylinder Number , ES PE:Estimated Recorder Due Date

Spare Standard Gas \*N<sub>2</sub> Has Store 31,50 Litre

\*Nox Has Store 31 Litre

\*SO<sub>2</sub> Has Store 31 Litre (D824444 18-OCT-2031)

\*CO Has Store 31,50 Litre (CC91752 3-JAN-2031)

\*O<sub>2</sub> Has Store 34 Litre (379505 12-JUL-2031)

Recorded By

*Wobon*

( นายพศวัต เจริญสุข )

Approved By

*[Signature]*

( นายสวัสดิ์ อ้นดนน )

Issue date

2-Jul-24



Report CEM<sub>5</sub>

Jun-24

HRSG 11

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-						690	690
Opacity	%	-	Reserve SD throughout the month	-	-	-							
O <sub>2</sub>	%	-	Reserve SD throughout the month	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	Reserve SD throughout the month		-	-							

HRSG 12

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-						690	690
Opacity	%	-	Reserve SD throughout the month	-	-	-							
O <sub>2</sub>	%	-	Reserve SD throughout the month	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	Reserve SD throughout the month		-	-							

\* Air Control Standard of (EIA)

Recorded By



( นายพศวัต เจริญสุข )

Approved By



( นายสวัสดิ์ อ้นดนา )

Report CEM<sub>5</sub>

Jun-24

HRSG 21

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-						96	152
CO 7%O <sub>2</sub>	ppm.	-	Reserve SD throughout the month	-	-	-						690	690
Opacity	%	-	Reserve SD throughout the month	-	-	-							
O <sub>2</sub>	%	-	Reserve SD throughout the month	-	-	-							
Flow	1000M <sup>3</sup> /Hr	-	Reserve SD throughout the month		-	-							

HRSG 22

Description	Unit / Hr.	Fuel Gas					Fuel Oil					Air Control Standard	
		Maximum			Average Values	Minimum Values	Maximum			Average Values	Minimum Values	Fuel Gas	Fuel Oil
		Values	Day	Flow			Values	Day	Flow				
SO <sub>2</sub> 7%O <sub>2</sub>	ppm.	1.00	30 Jun 2024 22:00	1,006.90	0.60	0.02							18.88
NO <sub>x</sub> 7%O <sub>2</sub>	ppm.	77.25	29 Jun 2024 21:00	1,618.24	59.89	52.29						96	152
CO 7%O <sub>2</sub>	ppm.	9.92	30 Jun 2024 23:00	961.12	8.98	7.92						690	690
Opacity	%	1.82	29 Jun 2024 19:00	822.19	0.39	0.02							
O <sub>2</sub>	%	13.98	30 Jun 2024 12:00	878.95	13.83	13.65							
Flow	1000M <sup>3</sup> /Hr	1,633.80	30 Jun 2024 17:00		1,108.89	816.47							

\* Air Control Standard of (EIA)

Recorded By



( นายพศวัต เจริญสุข )

Approved By



( นายสวัสดิ์ อ้นดนา )

## ภาคผนวก จ-2

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ผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
(AQMS)



รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาเวอร์ จำกัด

ประจำเดือนมกราคม 2567

เสนอต่อ

บริษัท ราชบุรีเพาเวอร์ จำกัด

โดย

ฝ่ายสิ่งแวดล้อมโครงการ

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาเวอร์ จำกัด  
ประจำเดือนมกราคม 2567

รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาเวอร์ จำกัด  
เดือนมกราคม 2567

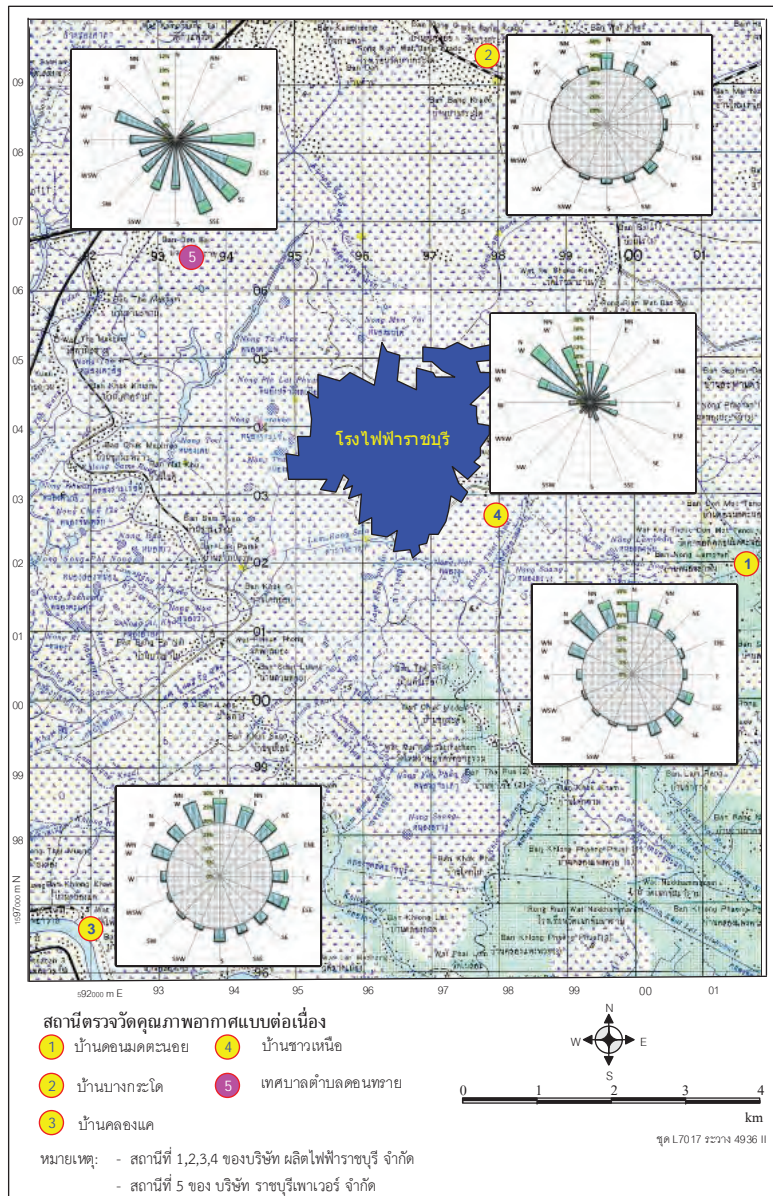
ผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง บริษัท ราชบุรีเพาเวอร์ จำกัด ประจำเดือนมกราคม 2567 จากสถานีตรวจวัดคุณภาพอากาศเทศบาลตำบลดอนทราย ผลการตรวจวัดดัชนีคุณภาพอากาศ พบว่า ฝุ่นละอองรวม ฝุ่นละอองขนาดไม่เกิน 10 ไมครอน ก๊าซซัลเฟอร์ไดออกไซด์ และก๊าซไนโตรเจนไดออกไซด์ มีค่าอยู่ในเกณฑ์มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไปตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ยกเว้นค่าฝุ่นละอองขนาดไม่เกิน 2.5 ไมครอน และก๊าซโอโซน ที่พบว่ามีค่าเกินเกณฑ์มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป โดยมีเกินค่ามาตรฐานฯ เป็นครั้งคราวดังนี้

- ฝุ่นละอองขนาดไม่เกิน 2.5 ไมครอน ระหว่างวันที่ 1-11, 14-24, 27-31 มกราคม 2567 มีค่าระหว่าง 39.3 -78.6  $\mu\text{g}/\text{m}^3$
- ก๊าซโอโซน ในวันที่ 5, 7, 27, 29 มีค่าระหว่าง 101-118 ppb

สรุปผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง (มกราคม 2567)

สถานีตรวจวัด	ค่าเฉลี่ยในเวลา 24 ชั่วโมง				ค่าเฉลี่ยในเวลา 1 ชั่วโมง		
	$(\mu\text{g}/\text{m}^3)$			(ppb)	(ppb)		
	TSP	PM-10	PM-2.5	SO <sub>2</sub>	SO <sub>2</sub>	NO <sub>2</sub>	O <sub>3</sub>
เทศบาลตำบลดอนทราย	55-130	52-106	32.6-78.6*	0-6	0-9	1-33	1-118*
มาตรฐาน	330	120	37.5	120	300	170	100

หมายเหตุ : มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป ตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 21 (พ.ศ. 2544) ฉบับที่ 24 (พ.ศ. 2547) ฉบับที่ 28 (พ.ศ. 2550) ฉบับที่ 33 (พ.ศ. 2552), ราชกิจจานุเบกษา เล่ม 139 ตอนพิเศษ 163ง (พ.ศ. 2565)



แผนที่แสดงตำแหน่งที่ตั้งสถานีตรวจวัดคุณภาพอากาศแบบต่อเนื่อง ของ บริษัท ผลิตไฟฟ้าราชบุรี จำกัด และ บริษัท ราชบุรีเพาเวอร์ จำกัด

สถานีเทศบาลตำบลดอนทราย



## MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : January

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date						
	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)		O <sub>3</sub> (ppb)	O <sub>2</sub> (%)
	24-Hr. Avg.	1-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Jan 24	6	5 - 7	9	4 - 19	9 - 64	N/A
2 Jan 24	5	4 - 7	10	4 - 23	13 - 76	N/A
3 Jan 24	6	5 - 9	15	6 - 30	11 - 94	N/A
4 Jan 24	6	4 - 9	14	5 - 28	8 - 96	N/A
5 Jan 24	5	4 - 8	14	7 - 33	8 - 105*	N/A
6 Jan 24	5	3 - 7	13	5 - 25	11 - 93	N/A
7 Jan 24	5	3 - 7	12	6 - 24	10 - 118*	N/A
8 Jan 24	5	4 - 7	12	5 - 27	9 - 88	N/A
9 Jan 24	5	2 - 8	10	3 - 20	10 - 94	N/A
10 Jan 24	1	1 - 4	9	3 - 16	8 - 78	N/A
11 Jan 24	1	0 - 4	8	3 - 23	8 - 57	N/A
12 Jan 24	0	0 - 3	6	2 - 19	1 - 55	N/A
13 Jan 24	0	0 - 3	4	1 - 11	1 - 54	N/A
14 Jan 24	1	0 - 2	6	2 - 23	1 - 80	N/A
15 Jan 24	1	0 - 2	11	3 - 25	6 - 67	N/A
16 Jan 24	1	0 - 6	13	4 - 24	3 - 73	N/A
17 Jan 24	3	1 - 7	14	5 - 31	2 - 93	N/A
18 Jan 24	2	0 - 5	11	3 - 26	2 - 96	N/A
19 Jan 24	4	2 - 7	10	3 - 20	8 - 87	N/A
20 Jan 24	2	0 - 6	8	3 - 18	5 - 79	N/A
21 Jan 24	3	0 - 4	8	2 - 20	4 - 64	N/A
22 Jan 24	3	2 - 6	9	3 - 14	3 - 79	N/A
23 Jan 24	3	2 - 6	11	4 - 18	2 - 84	N/A
24 Jan 24	4	3 - 6	12	8 - 18	3 - 50	N/A
25 Jan 24	4	3 - 5	10	6 - 17	8 - 63	N/A
26 Jan 24	3	2 - 5	9	5 - 16	19 - 92	N/A
27 Jan 24	2	1 - 5	11	5 - 22	20 - 110*	N/A
28 Jan 24	3	2 - 4	9	3 - 16	9 - 87	N/A
29 Jan 24	3	2 - 4	11	5 - 21	4 - 101*	N/A
30 Jan 24	6	3 - 9	10	4 - 22	3 - 100	N/A
31 Jan 24	2	0 - 7	7	4 - 18	4 - 86	N/A
Range	0 - 6	0 - 9	4 - 15	1 - 33	1 - 118*	-
Number of times (exceeded standard)	0	0	0	0	4	-
Total	Day	31	31	31	31	-
Monitoring	Hour	738	738	739	739	-
Ambient Air Quality Standard		120	300	-	170	100

Remark :-

1) Standards	= Ambient Air Quality Standards of the National Environment Board
2) SO <sub>2</sub>	= Sulfur Dioxide
3) NO <sub>2</sub>	= Nitrogen Dioxide
4) O <sub>3</sub>	= Ozone
5) N/A	= Data not Available
6) *	= Exceeding air quality standard
7) -	= Not Measurement



## MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

MONTH : January

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date	Concentration (24-Hr Avg)				
	TSP (µg/m <sup>3</sup> )		PM-10 (µg/m <sup>3</sup> )		PM-2.5 (µg/m <sup>3</sup> )
	Micro balance	Hi volume	Micro balance	Hi volume	Micro balance
1 Jan 24	70		61		46.5*
2 Jan 24	78		62		44.3*
3 Jan 24	86		74		52.9*
4 Jan 24	102		79		54.8*
5 Jan 24	104	101	80	84	55.8*
6 Jan 24	107		86		59.2*
7 Jan 24	111		91		63.2*
8 Jan 24	104		85		58.6*
9 Jan 24	97		82		58.2*
10 Jan 24	82		72		51*
11 Jan 24	80	82	71	63	49.4*
12 Jan 24	64		56		34.3
13 Jan 24	55		52		32.6
14 Jan 24	91		76		50.7*
15 Jan 24	100		92		58.9*
16 Jan 24	105		89		58.3*
17 Jan 24	121	118	106	82	51.0*
18 Jan 24	125		93		67*
19 Jan 24	130		103		78.6*
20 Jan 24	99		81		60.2*
21 Jan 24	71		55		39.3*
22 Jan 24	96		65		44.6*
23 Jan 24	109	103	83	76	63.8*
24 Jan 24	98		74		45.9*
25 Jan 24	68		54		35.6
26 Jan 24	77		55		37.1
27 Jan 24	105		80		57.9*
28 Jan 24	119		91		67.8*
29 Jan 24	114	116	86	79	60.7*
30 Jan 24	108		84		61.9*
31 Jan 24	94		70		49.2*
Range	55 - 130	82 - 118	52 - 106	63 - 84	32.6 - 78.6*
Number of times (exceeded standard)	0	0	0	0	27
Total	Day	31	31	5	31
Monitoring	Hour	734	120	737	737
Ambient Air Quality Standard	330	330	120	120	37.5

Remark :-

1) Standards	= Ambient Air Quality Standards of the National Environment Board
2) TSP	= Total Suspended Particulate
3) PM-10	= Particulate Matter less than 10 µm
4) PM-2.5	= Particulate Matter with diameter of less than 2.5 micron



บริษัท ราชบุรีเอนเนอร์จี้ จำกัด  
Ratchaburi Power Co.,Ltd.

## MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : January

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Jan 24	23.2	36.7	29.0	46	95	73	997	1,023	1,010	0.0
2 Jan 24	23.7	36.6	28.8	46	93	75	1,009	1,015	1,011	0.0
3 Jan 24	23.6	35.6	28.7	46	92	70	1,009	1,015	1,011	0.0
4 Jan 24	22.2	35.0	27.8	48	90	73	1,009	1,016	1,012	0.0
5 Jan 24	23.8	35.3	28.5	47	92	75	1,010	1,016	1,013	0.0
6 Jan 24	23.1	35.5	28.3	45	91	73	1,010	1,017	1,013	0.0
7 Jan 24	23.5	35.7	28.2	48	92	73	1,011	1,018	1,013	0.0
8 Jan 24	22.8	36.0	28.4	45	93	74	1,010	1,017	1,012	0.0
9 Jan 24	22.9	37.3	28.8	46	94	74	1,008	1,015	1,011	0.0
10 Jan 24	23.0	38.0	29.1	46	95	77	1,007	1,013	1,009	0.0
11 Jan 24	23.5	37.9	29.5	44	98	76	1,004	1,014	1,008	0.0
12 Jan 24	24.3	37.0	29.5	49	99	78	1,003	1,009	1,005	0.0
13 Jan 24	24.8	37.1	29.5	51	99	79	1,003	1,009	1,005	0.0
14 Jan 24	24.5	33.2	28.6	63	99	83	1,005	1,011	1,008	0.0
15 Jan 24	24.5	33.9	28.5	51	92	74	1,006	1,012	1,008	0.0
16 Jan 24	22.8	34.6	28.1	48	92	72	1,005	1,011	1,007	0.0
17 Jan 24	23.0	34.8	27.9	48	91	74	1,004	1,010	1,007	0.0
18 Jan 24	23.2	36.7	28.6	42	92	72	1,003	1,011	1,006	0.0
19 Jan 24	23.5	37.5	29.1	42	92	70	1,002	1,010	1,005	0.0
20 Jan 24	22.8	38.3	29.0	41	94	73	1,003	1,009	1,005	0.0
21 Jan 24	22.7	38.3	29.1	36	96	70	1,005	1,011	1,007	0.0
22 Jan 24	21.4	37.1	28.3	37	91	65	1,005	1,012	1,007	0.0
23 Jan 24	22.5	33.3	27.1	57	92	78	1,007	1,012	1,009	0.0
24 Jan 24	23.1	27.7	26.0	62	94	77	1,009	1,015	1,012	0.4
25 Jan 24	22.6	29.4	25.1	61	96	76	1,012	1,018	1,014	0.0
26 Jan 24	21.9	31.2	26.2	56	84	70	1,012	1,019	1,015	0.0
27 Jan 24	23.7	33.2	27.6	54	85	72	1,009	1,017	1,013	0.0
28 Jan 24	24.4	34.8	28.7	50	89	72	1,009	1,016	1,012	0.0
29 Jan 24	25.8	33.8	28.6	52	87	73	1,009	1,016	1,012	0.0
30 Jan 24	25.8	35.1	29.0	50	89	74	1,008	1,014	1,011	0.0
31 Jan 24	24.0	36.0	28.9	50	90	73	1,007	1,014	1,010	0.0
Total	21.4	38.3	28.3	36	99	74	997	1,023	1,010	0.4
Day	31			31			31			31
Hours	742			742			742			744

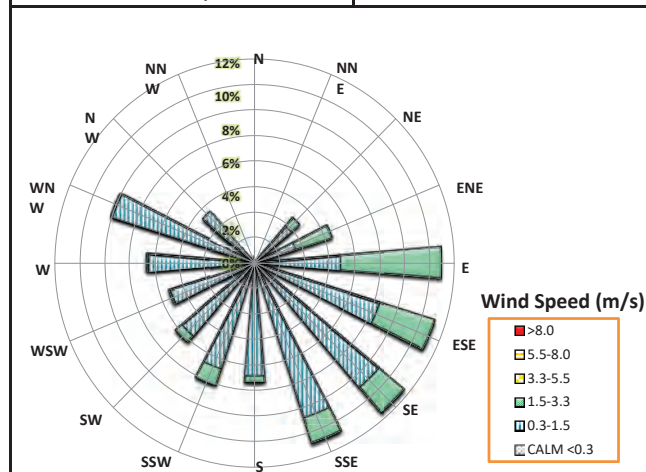
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ราชบุรีเอนเนอร์จี้ จำกัด  
Ratchaburi Power Co.,Ltd.

Date/Month/Year : 1-31/January/2024

STATION : Donsai Sub-district



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NNE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NE	2.83%	0.67%	0.00%	0.00%	0.00%	3.50%
ENE	2.56%	2.29%	0.00%	0.00%	0.00%	4.85%
E	5.12%	6.06%	0.00%	0.00%	0.00%	11.19%
ESE	7.82%	3.50%	0.00%	0.00%	0.00%	11.32%
SE	9.70%	2.02%	0.00%	0.00%	0.00%	11.73%
SSE	9.70%	1.62%	0.00%	0.00%	0.00%	11.32%
S	6.74%	0.40%	0.00%	0.00%	0.00%	7.14%
SSW	6.60%	1.08%	0.00%	0.00%	0.00%	7.68%
SW	5.66%	0.54%	0.00%	0.00%	0.00%	6.20%
WSW	5.26%	0.13%	0.00%	0.00%	0.00%	5.39%
W	6.33%	0.13%	0.00%	0.00%	0.00%	6.47%
WNW	8.89%	0.13%	0.00%	0.00%	0.00%	9.03%
NW	4.04%	0.00%	0.00%	0.00%	0.00%	4.04%
NNW	0.13%	0.00%	0.00%	0.00%	0.00%	0.13%
	81.40%	18.60%	0.00%	0.00%	0.00%	100.00%

No. of Monitored Hours	744	Hours	No. of Calm	0	Hours
No. of Monitored Days	31	Days	Calm (%)	0.00%	
Missing Data	2	Hours	Average Wind Speed	0.88	m/s
No. of Valid Data	742	Hours	Maximum Wind Speed	3.20	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction		SE

Equipment Status of Donsai Sub-district Monitoring Station "January 2024"							
No.	Site	Analyzer	Brand	Model	S/N	Status	Description
5	ดอนทราย	SO <sub>2</sub>	Ecotech	EC98508	05-1274	Normal	
		O <sub>3</sub>	Ecotech	EC98108	06-0001	Normal	
		NO <sub>2</sub>	Thermo	42iQ	-	Normal	
		DUST (PM - 10/2.5)	Thermo	1405DF	1405A248712190	Normal	
		DUST (TSP)	Thermo	1405	1405A250862311	Normal	
		O <sub>2</sub>	Riken keiki	OX-600		Fail	- Board Fail ไม่สามารถเชื่อมต่อได้ อยู่ระหว่างจัดซื้อเครื่องใหม่ทดแทน
		Hivolume air sampler(PM-10)	Ecotech	HV53000	05-1104	Normal	
		Hivolume air sampler(TSP)	Ecotech	HV53000	05-1103	Normal	
		WIND SPEED	Met One	010C	E7612	Normal	
		WIND DIRECTION	Met One	020C	F1128	Normal	
		AT/RH	Met One	083D-1-35	F1320	Normal	
		BAROMATIC PRESSURE	Met One	090D	F1231	Normal	
		Raingauge	Met One	-	-	Normal	
		Multi Translator	Met One	2270	F1284	Normal	
		Data Logger	ADVANTECH	IPC-510		Normal	
		Multi Gas Calibration	SABIO	4010	10260306	Normal	
		Zero Air Generator	SABIO	1001	030614768	Normal	
		Modem	Tornado	FMV56.0E	4088712	Normal	
		Air Condition 1	Daikin	AR18DV2S	E003687	Normal	
		Air Condition 2	Daikin	AR18DV2S	E002831	Normal	

ภาคผนวก



สถานีบ้านดอนมดตะนอย  
(สถานที่ตรวจวัด : วัดนักบุญอันโตนิโอ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : January

MONITORING STATION : Ban Don Mod Tanol

YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Jan 24	52	48	1	1 - 3	2 - 21	2 - 69
2 Jan 24	51	49	2	1 - 4	1 - 23	1 - 72
3 Jan 24	66	59	2	1 - 4	5 - 24	2 - 87
4 Jan 24	66	60	2	1 - 4	3 - 20	2 - 104*
5 Jan 24	70	60	2	1 - 5	7 - 36	2 - 121*
6 Jan 24	73	70	2	1 - 4	4 - 37	1 - 118*
7 Jan 24	78	72	2	1 - 4	6 - 22	7 - 117*
8 Jan 24	72	70	2	1 - 4	5 - 21	9 - 119*
9 Jan 24	73	69	2	1 - 4	5 - 33	5 - 105*
10 Jan 24	57	51	1	1 - 2	3 - 17	0 - 81
11 Jan 24	50	46	1	1 - 2	2 - 18	0 - 68
12 Jan 24	45	37	1	1 - 1	2 - 12	0 - 63
13 Jan 24	38	30	1	0 - 1	1 - 12	0 - 52
14 Jan 24	53	49	1	1 - 2	3 - 18	0 - 84
15 Jan 24	67	62	2	1 - 3	4 - 21	7 - 83
16 Jan 24	66	63	2	1 - 4	4 - 27	2 - 97
17 Jan 24	73	70	2	1 - 4	6 - 26	1 - 98
18 Jan 24	78	77	2	1 - 4	4 - 25	1 - 116*
19 Jan 24	76	72	1	1 - 3	4 - 31	1 - 101*
20 Jan 24	61	58	2	1 - 3	4 - 17	3 - 79
21 Jan 24	43	42	1	1 - 2	2 - 19	2 - 61
22 Jan 24	61	54	2	1 - 4	5 - 31	2 - 84
23 Jan 24	67	65	2	1 - 5	7 - 17	3 - 80
24 Jan 24	71	66	2	1 - 4	7 - 17	6 - 46
25 Jan 24	52	47	2	1 - 3	6 - 14	15 - 65
26 Jan 24	47	45	2	2 - 3	7 - 13	20 - 106*
27 Jan 24	68	64	3	1 - 4	7 - 21	7 - 127*
28 Jan 24	86	84	2	1 - 4	6 - 24	5 - 94
29 Jan 24	73	69	2	1 - 4	7 - 26	2 - 114*
30 Jan 24	72	68	3	1 - 8	5 - 20	4 - 97
31 Jan 24	59	56	2	1 - 4	4 - 17	5 - 92
Range	38 - 86	30 - 84	1 - 3	0 - 8	1 - 37	0 - 127*
Number of times (exceeded standard)	0	0	0	0	0	11
Total Day	31	31	31	31	31	31
Monitoring Hour	742	740	714	714	714	714
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10  $\mu\text{m}$   
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

## MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : January

MONITORING STATION : Ban Don Mod Tanoi

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge Sum. (mm)
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	
1 Jan 24	22.1	34.7	27.7	36	99	75	1,010	1,014	1,012	0.0
2 Jan 24	22.4	35.1	27.8	36	99	76	1,010	1,014	1,012	0.0
3 Jan 24	22.4	34.0	27.2	36	99	75	1,010	1,015	1,012	0.0
4 Jan 24	21.2	33.7	26.8	38	99	74	1,011	1,015	1,013	0.0
5 Jan 24	22.2	33.3	27.0	39	99	77	1,011	1,015	1,013	0.0
6 Jan 24	21.8	33.3	26.8	37	99	75	1,010	1,016	1,013	0.0
7 Jan 24	21.9	34.7	27.1	36	99	75	1,011	1,016	1,014	0.0
8 Jan 24	21.7	34.3	27.1	38	99	75	1,010	1,016	1,013	0.0
9 Jan 24	22.0	36.1	27.5	35	99	76	1,009	1,014	1,012	0.0
10 Jan 24	22.3	36.5	27.8	36	99	77	1,009	1,013	1,011	0.0
11 Jan 24	22.4	36.0	28.1	36	99	76	1,010	1,015	1,012	0.0
12 Jan 24	23.2	35.5	28.5	39	99	79	1,009	1,013	1,011	0.0
13 Jan 24	23.7	35.2	28.3	42	99	80	1,010	1,013	1,011	0.0
14 Jan 24	23.3	32.8	27.3	52	99	86	1,011	1,015	1,013	0.0
15 Jan 24	22.8	32.7	27.2	42	99	77	1,011	1,016	1,013	0.0
16 Jan 24	21.7	33.3	26.8	37	99	75	1,011	1,015	1,013	0.0
17 Jan 24	21.8	33.9	26.7	37	99	76	1,010	1,015	1,012	0.0
18 Jan 24	21.7	34.0	27.0	35	99	74	1,009	1,015	1,012	0.0
19 Jan 24	21.8	36.3	27.7	29	99	71	1,009	1,015	1,011	0.0
20 Jan 24	22.0	36.5	27.7	31	99	75	1,009	1,014	1,012	0.0
21 Jan 24	22.3	36.0	27.8	25	99	70	1,010	1,015	1,012	0.0
22 Jan 24	20.7	35.0	27.0	26	99	66	1,011	1,016	1,013	0.0
23 Jan 24	22.0	31.3	26.0	47	99	82	1,013	1,016	1,014	0.0
24 Jan 24	22.0	27.2	25.0	52	99	78	1,014	1,019	1,016	1.0
25 Jan 24	21.2	28.1	24.0	54	99	77	1,016	1,020	1,018	0.0
26 Jan 24	21.5	30.3	25.2	44	83	64	1,016	1,021	1,018	0.0
27 Jan 24	21.9	32.2	26.3	44	99	75	1,014	1,019	1,017	0.0
28 Jan 24	22.6	34.3	27.6	37	99	71	1,013	1,019	1,016	0.0
29 Jan 24	24.2	32.0	27.3	44	99	75	1,013	1,018	1,016	0.0
30 Jan 24	24.4	33.9	28.2	40	99	73	1,013	1,017	1,015	0.0
31 Jan 24	22.6	34.2	27.7	41	99	72	1,012	1,017	1,015	0.0
Total	20.7	36.5	27.1	25	99	75	1,009	1,021	1,013	1.0
Day	31			31			31			31
Hours	744			744			744			744

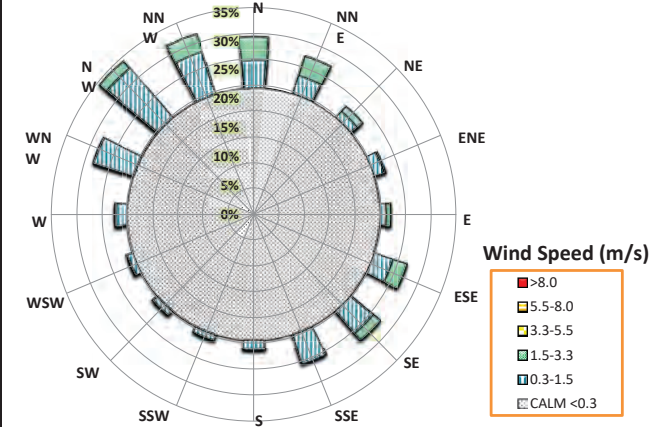
Remarks :- P = Power Fail ,F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-31/January/2024

STATION : Ban Don Mod Tanoi



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	4.84%	4.03%	0.00%	0.00%	0.00%	8.87%
NNE	3.36%	3.63%	0.00%	0.00%	0.00%	6.99%
NE	1.48%	1.21%	0.00%	0.00%	0.00%	2.69%
ENE	1.75%	0.27%	0.00%	0.00%	0.00%	2.02%
E	0.94%	0.81%	0.00%	0.00%	0.00%	1.75%
ESE	3.36%	2.55%	0.00%	0.00%	0.00%	5.91%
SE	5.11%	1.61%	0.00%	0.00%	0.00%	6.72%
SSE	5.24%	0.00%	0.00%	0.00%	0.00%	5.24%
S	1.48%	0.00%	0.00%	0.00%	0.00%	1.48%
SSW	1.08%	0.00%	0.00%	0.00%	0.00%	1.08%
SW	1.08%	0.00%	0.00%	0.00%	0.00%	1.08%
WSW	1.08%	0.13%	0.00%	0.00%	0.00%	1.21%
W	2.02%	0.13%	0.00%	0.00%	0.00%	2.15%
WNW	7.26%	0.00%	0.00%	0.00%	0.00%	7.26%
NW	11.29%	1.61%	0.00%	0.00%	0.00%	12.90%
NNW	7.66%	3.23%	0.00%	0.00%	0.00%	10.89%
	59.01%	19.22%	0.00%	0.00%	0.00%	78.23%

No. of Monitored Hours	744	Hours	No. of Calm	162	Hours
No. of Monitored Days	31	Days	Calm (%)	21.77%	
Missing Data	0	Hours	Average Wind Speed	0.89	m/s
No. of Valid Data	744	Hours	Maximum Wind Speed	2.60	m/s
Prevailing Wind Direction				NW	

Equipment Status of Ban Don Mod Tanoi Monitoring Station "January 2024"								
No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No.	Description
1	บ้านดอนเมตตะนอย (วัดนันทบุรุษ)	SO <sub>2</sub>	Thermo Scientific	43i-BZSCA	1162850018	Normal	20511164	
		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDCA	1162850016	Normal	20511166	
		O <sub>3</sub>	Thermo Scientific	49i-BZNCa	1162850020	Normal	20511168	
		DUST (TSP)	Thermo Scientific	5014/5030i	CM16461002	Normal	20511172	
		DUST (PM - 10)	Thermo Scientific	5014/5030i	CM16471015	Normal	20511170	
		ZERO AIR	Thermo Scientific	1160 BHP2N	1162850022	Normal	20511174	
		CALIBRATOR	Thermo Scientific	146i-BB6BFCA	1162850024	Normal	20511176	
		DATA LOGGER	ADVANTECH	IPC-50	KMA1478934	Normal	60110253.1.3.4	
		Switch Hub 16 port	TP-LINK	TL-SF1016	12886700507	Normal	-	
		UPS	Power Matic	TR-3000	13KEI00080	Normal	-	
		Display LCD 20"	hp	P201	6CM3151950	Normal	60110253.2	
		Keyboard	Logitech	K220	13145C105F28	Normal	-	
		Mouse	Logitech	M150	-	Normal	-	
		Standard Gas	Airgas	-	LL111365	Normal	-	
		WIND SPEED	LASTEM	DNA-827	-	Normal	-	
		WIND DIRECTION	LASTEM					
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506500	Normal	-	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506500	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404016	Normal	-	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	-	

สถานีบ้านบางกะโด  
(สถานที่ตรวจวัด : วัดบางกะโด)

MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : January

MONITORING STATION : Wat Bang Gado

YEAR : 2024

Date	Concentration					
	TSP (µg/m <sup>3</sup> )	PM-10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Jan 24	73	50	1	1 - 3	2 - 15	5 - 57
2 Jan 24	74	52	2	1 - 4	2 - 25	4 - 70
3 Jan 24	87	71	2	1 - 4	4 - 23	5 - 85
4 Jan 24	95	66	2	1 - 4	3 - 19	4 - 76
5 Jan 24	92	66	2	1 - 3	5 - 22	2 - 97
6 Jan 24	98	72	2	1 - 5	3 - 26	3 - 82
7 Jan 24	105	82	2	1 - 4	4 - 18	14 - 102*
8 Jan 24	93	71	2	1 - 5	3 - 19	9 - 81
9 Jan 24	92	66	2	1 - 3	3 - 15	7 - 86
10 Jan 24	77	51	2	1 - 4	3 - 20	4 - 65
11 Jan 24	70	49	1	1 - 4	3 - 17	2 - 59
12 Jan 24	66	41	1	1 - 2	2 - 9	3 - 50
13 Jan 24	58	41	1	1 - 2	2 - 11	2 - 45
14 Jan 24	76	51	2	1 - 4	3 - 28	2 - 71
15 Jan 24	94	66	2	1 - 3	4 - 24	5 - 61
16 Jan 24	87	65	2	1 - 5	4 - 18	5 - 64
17 Jan 24	101	76	2	1 - 4	6 - 27	3 - 83
18 Jan 24	102	81	2	1 - 4	3 - 19	2 - 83
19 Jan 24	103	77	2	1 - 4	5 - 20	12 - 83
20 Jan 24	88	72	2	1 - 3	5 - 17	6 - 76
21 Jan 24	76	47	1	1 - 2	4 - 17	3 - 58
22 Jan 24	81	60	2	1 - 4	5 - 21	5 - 68
23 Jan 24	97	75	2	1 - 7	7 - 18	5 - 66
24 Jan 24	83	61	2	1 - 2	7 - 14	8 - 45
25 Jan 24	68	59	1	1 - 2	5 - 12	13 - 58
26 Jan 24	66	45	2	1 - 2	5 - 11	17 - 87
27 Jan 24	91	72	2	1 - 3	6 - 18	15 - 98
28 Jan 24	108	90	2	1 - 3	5 - 16	10 - 82
29 Jan 24	104	83	2	1 - 4	5 - 15	6 - 92
30 Jan 24	100	81	2	1 - 7	5 - 17	5 - 91
31 Jan 24	80	60	2	1 - 5	4 - 17	8 - 86
Range	58 - 108	41 - 90	1 - 2	1 - 7	2 - 28	2 - 102*
Number of times (exceeded standard)	0	0	0	0	0	1
Total Day	31	31	31	31	31	31
Monitoring Hour	736	739	709	709	709	709
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10 µm  
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement

MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : January

MONITORING STATION : Wat Bang Gado

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Jan 24	22.6	34.8	28.0	37	88	67	1,009	1,014	1,012	0.0
2 Jan 24	22.5	34.0	27.7	41	91	69	1,009	1,014	1,012	0.0
3 Jan 24	22.7	33.4	27.3	40	90	67	1,009	1,014	1,012	0.0
4 Jan 24	21.2	33.0	26.8	41	82	66	1,010	1,015	1,012	0.0
5 Jan 24	22.8	33.4	27.4	41	87	68	1,010	1,015	1,013	0.0
6 Jan 24	22.0	33.1	27.1	38	91	68	1,010	1,015	1,013	0.0
7 Jan 24	22.4	33.3	27.2	40	85	66	1,010	1,016	1,013	0.0
8 Jan 24	21.8	34.3	27.4	36	90	67	1,010	1,015	1,013	0.0
9 Jan 24	22.4	35.0	27.8	38	90	67	1,009	1,014	1,011	0.0
10 Jan 24	22.8	35.2	28.0	40	90	70	1,008	1,013	1,010	0.0
11 Jan 24	23.1	35.1	28.3	39	97	70	1,009	1,014	1,011	0.0
12 Jan 24	23.9	34.3	28.5	43	95	73	1,008	1,013	1,011	0.0
13 Jan 24	24.4	33.4	28.3	48	97	75	1,009	1,013	1,011	0.0
14 Jan 24	24.0	32.2	27.8	55	97	78	1,010	1,014	1,012	0.0
15 Jan 24	23.6	32.4	27.3	45	90	70	1,011	1,015	1,013	0.0
16 Jan 24	21.9	32.7	27.0	41	87	67	1,010	1,015	1,012	0.0
17 Jan 24	21.7	32.9	26.7	41	88	69	1,010	1,014	1,012	0.0
18 Jan 24	22.2	34.3	27.4	34	89	66	1,009	1,015	1,012	0.0
19 Jan 24	22.5	35.5	28.0	33	87	63	1,008	1,014	1,011	0.0
20 Jan 24	22.7	35.0	27.9	36	86	66	1,009	1,013	1,011	0.0
21 Jan 24	22.7	35.9	28.2	27	92	64	1,010	1,015	1,012	0.0
22 Jan 24	21.3	34.7	27.5	29	87	56	1,010	1,015	1,013	0.0
23 Jan 24	22.2	31.5	26.2	51	89	71	1,012	1,015	1,014	0.0
24 Jan 24	22.5	26.6	25.0	55	90	71	1,013	1,018	1,016	0.6
25 Jan 24	21.7	27.9	24.0	56	91	70	1,016	1,020	1,018	0.0
26 Jan 24	21.2	29.9	25.1	49	79	64	1,015	1,021	1,018	0.0
27 Jan 24	22.4	31.9	26.3	46	82	67	1,013	1,019	1,016	0.0
28 Jan 24	23.3	32.8	27.7	42	87	66	1,013	1,018	1,015	0.0
29 Jan 24	24.5	32.0	27.6	46	83	67	1,013	1,018	1,015	0.0
30 Jan 24	25.0	33.0	28.2	44	83	66	1,012	1,017	1,015	0.0
31 Jan 24	23.0	33.6	27.7	45	87	67	1,011	1,017	1,014	0.0
Total	21.2	35.9	27.3	27	97	68	1,008	1,021	1,013	0.6
Day	31			31			31			31
Hours	744			744			744			744

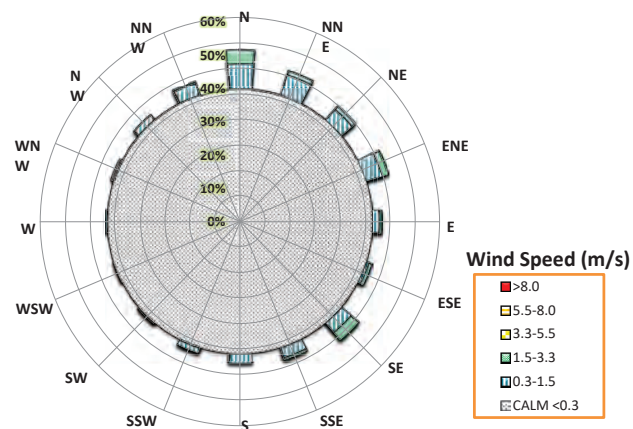
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-31/January/2024

STATION : Wat Bang Gado



Wind Speed (m/s)

Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	7.53%	4.30%	0.00%	0.00%	0.00%	11.83%
NNE	6.32%	1.34%	0.00%	0.00%	0.00%	7.66%
NE	4.17%	1.34%	0.00%	0.00%	0.00%	5.51%
ENE	4.97%	2.02%	0.00%	0.00%	0.00%	6.99%
E	1.88%	0.81%	0.00%	0.00%	0.00%	2.69%
ESE	0.81%	0.94%	0.00%	0.00%	0.00%	1.75%
SE	3.76%	3.09%	0.00%	0.00%	0.00%	6.85%
SSE	3.09%	0.81%	0.00%	0.00%	0.00%	3.90%
S	2.69%	0.00%	0.00%	0.00%	0.00%	2.69%
SSW	1.75%	0.00%	0.00%	0.00%	0.00%	1.75%
SW	0.54%	0.00%	0.00%	0.00%	0.00%	0.54%
WSW	0.27%	0.00%	0.00%	0.00%	0.00%	0.27%
W	0.54%	0.00%	0.00%	0.00%	0.00%	0.54%
WNW	0.81%	0.13%	0.00%	0.00%	0.00%	0.94%
NW	2.02%	0.00%	0.00%	0.00%	0.00%	2.02%
NNW	3.90%	0.54%	0.00%	0.00%	0.00%	4.44%
	45.03%	15.32%	0.00%	0.00%	0.00%	60.35%
No. of Monitored Hours	744	Hours	No. of Calm	295	Hours	
No. of Monitored Days	31	Days	Calm (%)	39.65%		
Missing Data	0	Hours	Average Wind Speed	0.74	m/s	
No. of Valid Data	744	Hours	Maximum Wind Speed	3.20	m/s	

Wind Rose by : Air Quality and Noise Section : 2020/05

Prevailing Wind Direction : N

Equipment Status of Wat Bang Gado Monitoring Station "January 2024"

No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
2	วัดบางกะโด	SO <sub>2</sub>	Thermo Scientific	43i-BZSAB	1315757998	Normal	20210097	
		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDAB	1315757995	Normal	20210099	
		O <sub>3</sub>	Thermo Scientific	49i-BZNA8	1315758000	Normal	20210101	
		DUST (TSP)	Thermo Scientific	5014i (in26-004-2)	CM13211004	Normal	20210095	
		DUST (PM - 10)	Thermo Scientific	5014i (in26-004-1)	CM13211003	Normal	20210093	
		ZERO AIR	Thermo Scientific	1160 BHR2C	1315758003	Normal	20210102.2	
		CALIBRATOR	Thermo Scientific	146i-BB3BEAB	1315758002	Normal	20210102.4	
		DATA LOGGER(Enviro)	ADVANTECH	IPC-510	KWA1478929	Normal	60110254.0.1.3.4	
		Ethernet Switch	TP-LINK	TL-SF1016	12B86700508	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00077	Normal	-	
		Display LCD 20"	HP	P201	6CM3020GC2	Normal	60110254.2	
		KeyBoard Wireless	Logitech	K220	13145C105MA8	Normal	-	
		Mouse Wireless	Logitech	M150	13135CM0XGW8	Normal	-	
		Standard Gas	Airgas	-	LL156436	Normal	-	
		WIND SPEED	LASTEM	DNA 827	BZ 1506563	Normal	-	
		WIND DIRECTION	LASTEM	DNA 827	BZ 1506563	Normal	-	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506498	Normal	-	
		RELATIVE HUMIDITY	LASTEM	Sensor: DMA672.1	Sensor: 18080122	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404015	Normal	-	
		RAIN GAUGE	LASTEM	DQA 230.1	21120166	Normal	-	

สถานีบ้านคลองแค  
(สถานที่ตรวจวัด : วัดโพธิ์ราษฎร์บูรณะ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd. MONTH : January  
MONITORING STATION : Ban Klong Klae YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Jan 24	54	48	2	2 - 3	3 - 19	6 - 64
2 Jan 24	60	46	2	2 - 4	3 - 23	5 - 73
3 Jan 24	82	60	2	2 - 4	5 - 25	3 - 75
4 Jan 24	76	60	2	1 - 4	5 - 28	7 - 102*
5 Jan 24	79	64	2	2 - 4	6 - 29	2 - 98
6 Jan 24	85	66	3	2 - 4	7 - 31	4 - 98
7 Jan 24	93	74	3	2 - 4	6 - 19	14 - 106*
8 Jan 24	86	71	3	2 - 5	4 - 20	7 - 91
9 Jan 24	84	72	3	3 - 5	3 - 22	8 - 84
10 Jan 24	68	61	3	3 - 4	3 - 17	4 - 71
11 Jan 24	69	59	3	3 - 4	2 - 24	3 - 57
12 Jan 24	55	47	3	2 - 4	3 - 14	3 - 52
13 Jan 24	48	42	2	2 - 3	2 - 13	3 - 49
14 Jan 24	65	55	2	1 - 2	3 - 22	3 - 66
15 Jan 24	86	68	2	1 - 4	3 - 15	9 - 69
16 Jan 24	79	66	3	2 - 6	4 - 17	6 - 73
17 Jan 24	90	72	3	2 - 5	4 - 26	4 - 86
18 Jan 24	75	73	2	2 - 4	3 - 23	4 - 106*
19 Jan 24	83	77	2	2 - 3	4 - 26	8 - 91
20 Jan 24	74	69	2	2 - 4	3 - 19	10 - 75
21 Jan 24	54	52	2	1 - 3	3 - 14	5 - 64
22 Jan 24	65	55	3	2 - 5	3 - 15	5 - 83
23 Jan 24	76	74	3	2 - 5	6 - 16	4 - 92
24 Jan 24	86	81	3	2 - 5	6 - 17	7 - 48
25 Jan 24	57	51	3	2 - 4	5 - 13	16 - 68
26 Jan 24	62	57	3	2 - 4	5 - 16	17 - 92
27 Jan 24	79	73	4	3 - 5	5 - 21	18 - 112*
28 Jan 24	92	90	4	2 - 6	3 - 18	12 - 82
29 Jan 24	83	79	3	2 - 4	6 - 16	5 - 102*
30 Jan 24	86	79	3	2 - 7	4 - 20	7 - 94
31 Jan 24	64	59	4	3 - 6	4 - 20	9 - 85
Range	48 - 93	42 - 90	2 - 4	1 - 7	2 - 31	2 - 112*
Number of times (exceeded standard)	0	0	0	0	0	5
Total	Day	31	31	31	31	31
Monitoring	Hour	742	738	713	713	690
Ambient Air Quality Standard		330	120	120	300	170
					100	

Remark :-  
1) Standards = Ambient Air Quality Standards of the National Environment Board  
2) TSP = Total Suspended Particulate  
3) PM-10 = Particulate Matter less than 10  $\mu\text{m}$   
4) SO<sub>2</sub> = Sulfur Dioxide  
5) NO<sub>2</sub> = Nitrogen Dioxide  
6) N/A = Data not Available  
7) \* = Exceeding air quality standard  
8) - = Not Measurement



MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

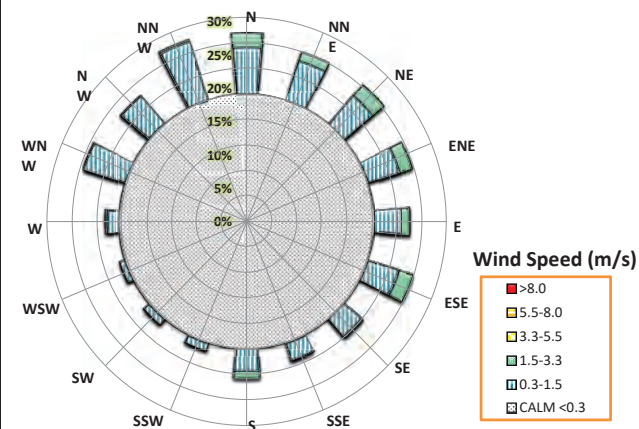
PROJECT : Ratchaburi Electricity Generating Co.,Ltd. Month : January  
MONITORING STATION : Ban Klong Klae YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	
1 Jan 24	23.0	34.4	27.9	41	99	73	1,009	1,013	1,011	0.0
2 Jan 24	23.1	34.0	27.9	39	99	72	1,008	1,013	1,011	0.0
3 Jan 24	22.9	33.6	27.4	39	99	71	1,009	1,013	1,011	0.0
4 Jan 24	22.0	32.7	26.9	42	97	69	1,009	1,014	1,012	0.0
5 Jan 24	22.8	33.4	27.3	40	99	74	1,009	1,014	1,012	0.0
6 Jan 24	22.1	33.1	27.1	39	99	73	1,009	1,015	1,012	0.0
7 Jan 24	22.3	33.7	27.3	38	99	71	1,010	1,015	1,013	0.0
8 Jan 24	21.8	33.6	27.4	38	99	71	1,009	1,015	1,012	0.0
9 Jan 24	22.0	35.3	27.9	36	99	72	1,008	1,013	1,011	0.0
10 Jan 24	22.8	35.7	28.1	40	99	76	1,007	1,012	1,010	0.0
11 Jan 24	22.7	35.1	28.3	36	99	75	1,008	1,013	1,011	0.0
12 Jan 24	23.4	35.0	28.4	41	100	79	1,007	1,012	1,010	0.0
13 Jan 24	24.3	34.6	28.4	43	100	79	1,009	1,012	1,010	0.0
14 Jan 24	23.9	31.7	27.3	55	99	86	1,010	1,014	1,012	0.0
15 Jan 24	23.8	31.9	27.3	44	99	74	1,010	1,015	1,012	0.0
16 Jan 24	22.1	32.7	27.0	40	99	70	1,009	1,014	1,012	0.0
17 Jan 24	22.4	33.2	27.1	39	99	71	1,009	1,013	1,011	0.0
18 Jan 24	22.2	34.2	27.4	36	99	71	1,008	1,014	1,011	0.4
19 Jan 24	22.4	35.4	28.2	33	99	65	1,007	1,013	1,010	0.0
20 Jan 24	22.0	34.9	27.8	33	99	70	1,008	1,013	1,010	0.0
21 Jan 24	22.5	35.2	28.3	27	99	67	1,009	1,014	1,011	0.0
22 Jan 24	21.3	34.8	27.3	25	99	62	1,010	1,015	1,012	0.0
23 Jan 24	22.0	31.5	26.3	44	99	74	1,011	1,015	1,013	0.0
24 Jan 24	22.6	27.4	25.2	51	99	76	1,013	1,017	1,015	0.8
25 Jan 24	21.9	28.0	24.2	53	99	74	1,015	1,019	1,017	0.0
26 Jan 24	21.6	29.2	25.2	48	74	62	1,015	1,020	1,017	0.0
27 Jan 24	22.9	31.2	26.4	48	88	68	1,012	1,018	1,015	0.0
28 Jan 24	23.4	33.9	27.6	40	99	70	1,012	1,018	1,015	0.0
29 Jan 24	24.3	31.6	27.4	46	99	71	1,012	1,017	1,015	0.0
30 Jan 24	24.7	33.0	28.1	43	99	72	1,011	1,016	1,014	0.0
31 Jan 24	23.5	33.7	27.9	44	96	69	1,010	1,016	1,014	0.0
Total	21.3	35.7	27.3	25	100	72	1,007	1,020	1,012	1.2
Day	31			31			31			31
Hours	744			744			744			744

Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



Date/Month/Year : 1-31/January/2024 STATION : Ban Klong Klae



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	6.99%	2.15%	0.00%	0.00%	0.00%	9.14%
NNE	6.18%	1.34%	0.00%	0.00%	0.00%	7.53%
NE	5.51%	2.15%	0.00%	0.00%	0.00%	7.66%
ENE	4.97%	1.88%	0.00%	0.00%	0.00%	6.85%
E	4.03%	1.21%	0.00%	0.00%	0.00%	5.24%
ESE	4.84%	2.15%	0.00%	0.00%	0.00%	6.99%
SE	3.36%	0.27%	0.00%	0.00%	0.00%	3.63%
SSE	2.69%	0.13%	0.00%	0.00%	0.00%	2.82%
S	3.36%	1.08%	0.00%	0.00%	0.00%	4.44%
SSW	1.21%	0.00%	0.00%	0.00%	0.00%	1.21%
SW	1.08%	0.00%	0.00%	0.00%	0.00%	1.08%
WSW	0.81%	0.00%	0.00%	0.00%	0.00%	0.81%
W	1.75%	0.27%	0.00%	0.00%	0.00%	2.02%
WNW	6.45%	0.13%	0.00%	0.00%	0.00%	6.59%
NW	5.38%	0.13%	0.00%	0.00%	0.00%	5.51%
NNW	9.14%	0.27%	0.00%	0.00%	0.00%	9.41%
	67.74%	13.17%	0.00%	0.00%	0.00%	80.91%

No. of Monitored Hours	744	Hours	No. of Calm	142	Hours
No. of Monitored Days	31	Days	Calm (%)	19.09%	
Missing Data	0	Hours	Average Wind Speed	0.85	m/s
No. of Valid Data	744	Hours	Maximum Wind Speed	2.70	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction		NNW

Equipment Status of Ban Klong Klae Monitoring Station "January 2024"								
No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
3	บ้านคลองนก	SO <sub>2</sub>	Thermo Scientific	43i-BZSCA	1162850017	Normal	20511163	
	(วัดโพธิ์ราษฎร์)	NO <sub>2</sub>	Thermo Scientific	42i-BZMSDCA	1162850015	Normal	20511165	
		O <sub>3</sub>	Thermo Scientific	49i-BZNCA	1162850019	Normal	20511167	
		DUST (TSP)	Thermo Scientific	5014i/5030i	CM16461001	Normal	20511171	
		DUST (PM - 10)	Thermo Scientific	5014i/5030i	CM16471014	Normal	20511169	
		ZERO AIR	Thermo Scientific	1160 BHP2N	1162850021	Normal	20511173	
		CALIBRATOR	Thermo Scientific	146i-BB6BFCA	1162850023	Normal	20511175	
		DATA LOGGER	ADVANTECH	IPC-50	KMA147893A	Normal	60110255.0.1.3.4	
		DATA LOGGER	HP	HP Compaq	SG5026QWW2	Normal	99050095.1	
		Switch Hub 16 port	D-LINK	DES-101160	F3065CA002170	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00087	Normal	-	
		CPU	hp	d530 SFF	SGH4030WY	Normal	-	
		Display LCD 20"	HP	P201	6CM3151954	Normal	60110255.2	
		KeyBoard Wireless	Logitech	K220	13145C105FH8	Normal	-	
		Mouse Wireless	Logitech	M150	-	Normal	-	
		Standard Gas	Airgas	-	LL156448	Normal	-	
		WIND SPEED	LASTEM	DNA 821	20030210	Normal	-	
		WIND DIRECTION	LASTEM			Normal	-	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506488	Normal	-	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506488	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404017	Normal	-	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	-	

สถานีบ้านชาวเหนือ  
(สถานที่ตรวจวัด : บ้านชาวเหนือ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : January

MONITORING STATION : Ban Chao Nua

YEAR : 2024

Date	Concentration					
	TSP (µg/m <sup>3</sup> )	PM-10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Jan 24	53	N/A	1	1 - 3	3 - 16	19 - 65
2 Jan 24	59	N/A	2	1 - 4	3 - 14	20 - 67
3 Jan 24	64	N/A	2	1 - 4	4 - 16	21 - 67
4 Jan 24	65	N/A	2	1 - 4	4 - 17	19 - 87
5 Jan 24	72	N/A	2	1 - 4	7 - 15	21 - 124*
6 Jan 24	77	N/A	2	1 - 5	6 - 18	18 - 117*
7 Jan 24	86	N/A	2	1 - 4	6 - 15	30 - 132*
8 Jan 24	81	N/A	2	1 - 5	5 - 16	30 - 124*
9 Jan 24	72	60	2	1 - 3	5 - 14	26 - 108*
10 Jan 24	58	48	1	1 - 2	4 - 17	20 - 91
11 Jan 24	54	43	1	1 - 3	3 - 19	18 - 79
12 Jan 24	44	35	1	1 - 2	3 - 9	18 - 72
13 Jan 24	40	34	1	1 - 2	3 - 9	18 - 64
14 Jan 24	57	47	1	1 - 2	4 - 15	18 - 91
15 Jan 24	73	62	2	1 - 3	4 - 19	23 - 88
16 Jan 24	73	59	2	1 - 4	4 - 16	21 - 93
17 Jan 24	79	65	2	1 - 4	6 - 16	21 - 101*
18 Jan 24	84	68	2	1 - 3	3 - 16	18 - 94
19 Jan 24	82	65	2	1 - 3	4 - 15	25 - 63
20 Jan 24	66	55	2	1 - 3	4 - 12	19 - 49
21 Jan 24	51	45	1	1 - 2	4 - 14	18 - 35
22 Jan 24	60	47	2	1 - 3	4 - 18	19 - 35
23 Jan 24	78	63	2	1 - 5	6 - 13	19 - 64
24 Jan 24	77	60	2	1 - 3	6 - 14	27 - 68
25 Jan 24	54	36	2	1 - 3	6 - 12	36 - 88
26 Jan 24	52	45	2	1 - 3	6 - 11	40 - 120*
27 Jan 24	77	64	2	1 - 3	6 - 12	40 - 137*
28 Jan 24	100	81	2	1 - 3	5 - 16	28 - 107*
29 Jan 24	85	70	2	1 - 3	7 - 17	21 - 126*
30 Jan 24	82	69	2	1 - 5	5 - 14	22 - 122*
31 Jan 24	65	56	2	1 - 3	5 - 15	15 - 94
Range	40 - 100	34 - 81	1 - 2	1 - 5	3 - 19	15 - 137*
Number of times (exceeded standard)	0	0	0	0	0	11
Total	Day	23	23	31	31	31
Monitoring	Hour	735	545	710	710	710
Ambient Air Quality Standard		330	120	120	300	170
					100	

Remark :-  
1) Standards = Ambient Air Quality Standards of the National Environment Board  
2) TSP = Total Suspended Particulate  
3) PM-10 = Particulate Matter less than 10 µm  
4) SO<sub>2</sub> = Sulfur Dioxide  
5) NO<sub>2</sub> = Nitrogen Dioxide  
6) N/A = Data not Available  
7) \* = Exceeding air quality standard  
8) - = Not Measurement

MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : January

MONITORING STATION : Ban Chao Nua

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Jan 24	22.2	33.9	27.1	42	100	79	1,007	1,012	1,009	0.0
2 Jan 24	22.5	34.1	27.1	40	100	80	1,007	1,011	1,009	0.0
3 Jan 24	22.3	33.1	26.7	40	100	77	1,007	1,012	1,009	0.0
4 Jan 24	21.2	32.3	26.3	45	99	77	1,008	1,012	1,010	0.0
5 Jan 24	22.3	32.3	26.6	43	100	79	1,008	1,012	1,010	0.0
6 Jan 24	21.7	32.7	26.5	40	100	78	1,007	1,013	1,010	0.0
7 Jan 24	22.2	33.2	26.7	40	99	76	1,008	1,013	1,011	0.0
8 Jan 24	21.6	33.9	26.8	40	100	77	1,008	1,013	1,010	0.0
9 Jan 24	21.9	35.2	27.4	37	100	76	1,007	1,011	1,009	0.0
10 Jan 24	22.5	35.4	27.5	41	100	78	1,006	1,010	1,008	0.0
11 Jan 24	22.6	35.0	27.9	39	100	77	1,007	1,012	1,009	0.0
12 Jan 24	23.4	34.5	28.2	44	100	80	1,006	1,010	1,008	0.0
13 Jan 24	23.9	33.9	28.0	48	100	81	1,007	1,010	1,008	0.0
14 Jan 24	23.4	31.8	27.0	58	100	88	1,008	1,012	1,010	0.0
15 Jan 24	23.4	31.6	26.8	47	99	80	1,008	1,013	1,010	0.0
16 Jan 24	21.8	32.2	26.4	43	100	77	1,008	1,012	1,010	0.0
17 Jan 24	22.0	32.8	26.3	42	100	78	1,007	1,012	1,009	0.0
18 Jan 24	21.9	33.6	26.8	37	100	77	1,007	1,012	1,009	0.0
19 Jan 24	22.0	35.9	27.5	33	100	72	1,006	1,012	1,009	0.0
20 Jan 24	22.1	35.3	27.6	34	100	75	1,007	1,011	1,009	0.0
21 Jan 24	22.1	35.9	27.7	27	100	71	1,008	1,012	1,010	0.0
22 Jan 24	21.2	34.5	26.9	28	99	64	1,008	1,013	1,010	0.0
23 Jan 24	21.7	30.9	25.8	49	100	84	1,010	1,013	1,011	0.0
24 Jan 24	22.7	26.4	25.0	55	99	78	1,011	1,016	1,013	0.0
25 Jan 24	21.6	27.6	24.0	57	99	77	1,013	1,017	1,015	0.2
26 Jan 24	21.3	28.9	24.9	51	90	67	1,013	1,018	1,015	0.0
27 Jan 24	22.2	31.2	26.0	49	99	76	1,011	1,017	1,014	0.0
28 Jan 24	22.9	32.9	27.2	42	99	74	1,011	1,016	1,013	0.0
29 Jan 24	24.2	31.6	27.0	46	99	77	1,010	1,016	1,013	0.0
30 Jan 24	24.3	33.3	27.9	43	99	75	1,010	1,014	1,012	0.0
31 Jan 24	22.6	33.2	27.4	46	99	76	1,009	1,015	1,012	0.0
Total	21.2	35.9	26.8	27	100	77	1,006	1,018	1,010	0.2
Day	31			31			31			31
Hours	744			744			744			744

Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available

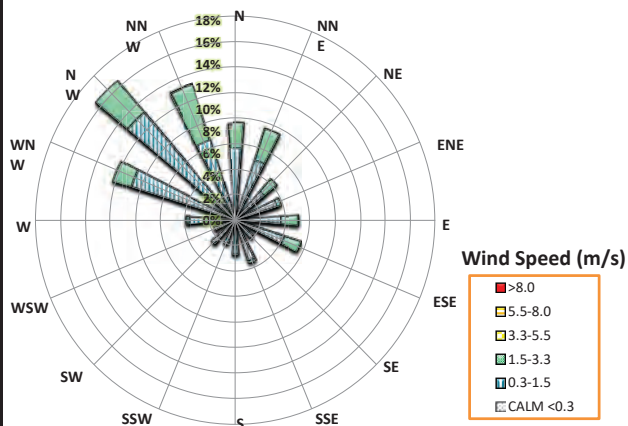


บริษัท ผลิตไฟฟ้าราชบุรี จำกัด

Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-31/January/2024

STATION : Ban Chao Nua



Wind Speed (m/s)

Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	6.45%	2.28%	0.00%	0.00%	0.00%	8.74%
NNE	5.65%	2.96%	0.00%	0.00%	0.00%	8.60%
NE	3.36%	1.48%	0.00%	0.00%	0.00%	4.84%
ENE	3.90%	0.40%	0.00%	0.00%	0.00%	4.30%
E	4.03%	1.61%	0.00%	0.00%	0.00%	5.65%
ESE	4.57%	1.61%	0.00%	0.00%	0.00%	6.18%
SE	2.02%	0.13%	0.00%	0.00%	0.00%	2.15%
SSE	3.76%	0.27%	0.00%	0.00%	0.00%	4.03%
S	3.09%	0.00%	0.00%	0.00%	0.00%	3.09%
SSW	2.28%	0.00%	0.00%	0.00%	0.00%	2.28%
SW	2.82%	0.00%	0.00%	0.00%	0.00%	2.82%
WSW	2.02%	0.00%	0.00%	0.00%	0.00%	2.02%
W	4.17%	0.27%	0.00%	0.00%	0.00%	4.44%
WNW	9.81%	1.75%	0.00%	0.00%	0.00%	11.56%
NW	12.63%	3.76%	0.00%	0.00%	0.00%	16.40%
NNW	7.53%	5.24%	0.13%	0.00%	0.00%	12.90%
	78.09%	21.77%	0.13%	0.00%	0.00%	100.00%

No. of Monitored Hours	744	Hours	No. of Calm	0	Hours
No. of Monitored Days	31	Days	Calm (%)	0.00%	
Missing Data	0	Hours	Average Wind Speed	1.05	m/s
No. of Valid Data	744	Hours	Maximum Wind Speed	3.40	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction	NW	

Equipment Status of Ban Chao Nua Monitoring Station "January 2024"

No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
4	บ้านชาวนาเหนือ	SO <sub>2</sub>	Thermo Scientific	43i-BZSAB	1315757997	Normal	20210096	
		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDAA	CM23367032	Normal	20210248	
		O <sub>3</sub>	Thermo Scientific	49i-BZNA8	1315757999	Normal	20210100	
		DUST (TSP)	Thermo Scientific	5014i (in26-004-4)	CM13211006	Normal	20210094	
		DUST (PM - 10)	Thermo Scientific	5014i (in26-004-3)	CM13211005	Normal	20210092	-Flow Alarm : Low เนื่องจาก Sampling pump Fail ทำให้ไม่มีข้อมูลตรวจวัดระหว่างวันที่ 1-8 Jan 2024
		ZERO AIR	Thermo Scientific	1160 BHR2C	1315758010	Normal	20210102.1	
		CALIBRATOR	Thermo Scientific	146i-BB3BEAB	1315758001	Normal	20210102.3	
		DATA LOGGER(Envirodas)	ADVANTECH	IPC-510	KMA1478933	Normal	60110252.0000.1.3.4	
		Data LOGGER License	Envitech	Envidas Ultimate	281230	Normal	-	
		Switch Hub 16 port	TP-LINK	TL-SF1016	12886701720	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00082	Normal	-	
		Display LCD 20"	HP	P201	6CM31519JB	Normal	60110252.2	
		Keyboard Wireless	Logitech	K220	13145C105M68	Normal	-	
		Mouse Wireless	Logitech	M150	13135CMDXH08	Normal	-	
		Standard Gas	Airgas	-	LL121560	Normal	-	
		WIND SPEED	LASTEM	DNA 827	BZ 1506562	Normal	20210013 0013	
		WIND DIRECTION	LASTEM	DNA 827	BZ 1506562	Normal	20210013 0014	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506501	Normal	20210013 0015	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506501	Normal	20210013 0016	
		BAROMATIC PRESSURE	LASTEM	DQA 208	-	Normal	20210013 0016	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	20210013 0018	

Preventive maintenance schedule,

Plan and actual

งานบำรุงรักษาสถานีตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง โรงไฟฟ้า บริษัท ราชบริเวาเวอร์ ประจำปี 2024

รายละเอียดงาน	มกราคม				กุมภาพันธ์				มีนาคม				เมษายน				พฤษภาคม				มิถุนายน				กรกฎาคม				สิงหาคม				กันยายน				ตุลาคม				พฤศจิกายน				ธันวาคม					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1. งานประเมินความเสี่ยงทางสุขภาพต่อเชื้อสารพัดพิษ																																																		
- Single Point	✓																																																	
- Multi Point																																																		
2. งานสำรวจและจัดทำความละเอียดของค่าก๊าซ																																																		
เชื้อสารพัดพิษ ก๊าซ SO <sub>x</sub> , NO <sub>x</sub> และ CO <sub>x</sub>																																																		
3. งานประเมินความเสี่ยงทางสุขภาพต่อเชื้อสาร Multi Gas Calibrator																																																		
- อัตราการไหลของอากาศ																																																		
4. งานสำรวจและเก็บตัวอย่างสารพัดพิษตามวิธีภาค																																																		
ฝุ่น TSP และ PM10																																																		
- อัตราการไหลของอากาศ																																																		
5. งานสำรวจและจัดทำความละเอียดของค่า																																																		
อากาศเชื้อสารพัดพิษ TSP PM10																																																		
6. งานสำรวจและจัดทำความละเอียดของค่า																																																		
อากาศเชื้อสารพัดพิษ TSP PM10																																																		
7. งานนำข้อมูลจากงานไปวางแผนการลดค่า																																																		

✓

Plan

Actual

## Corrective maintenance work list

### Corrective maintenance work list

Project : Ratchaburi Power Co.,Ltd.

Page 1 of 1

Site No.: 5

Station : Donsai Sub-district

Month - Year : ม.ค.-2024

[illegible]

Engineer: Mr. Pongviriya Chaowalit

Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Remark :

Consumable and spare part list

List Code for Spare Part & Consumable Part AAQM-RPCL (January 2024)

No.	Description	Use for Analyzer	S/N	Unit	Bala nce	Jan 23	Bala nce
1	1405DF Consumables PKG	PM-10/2.5 TEOM	59-010993	set	1	0	1
2	Pump Re-build kit	PM-10/2.5 TEOM	111754-00	set	2	0	2
3	Filter box of 20 TX40 TEOM	PM-10/2.5 TEOM	57007225-0020	ea	28	1	27
4	Silica Gel <span>*(ဂရပ်စီယံ)</span>	NO <sub>2</sub>	-	can	2	0	2
5	Pump Re-build kit 42KQ	NO <sub>2</sub>	117901-00	set	3	1	2
6	Sinter Filter(ECCH 01004701)	SO <sub>2</sub>	E0980001811	set	1	0	1
7	Rebuild Kit, External Pump Model617CD22-194 C	SO <sub>2</sub> O <sub>3</sub>	SK61722	set	6	2	4
8	Filter Element, 5 Micron, Consumable (1pk = 50 ea.) 47mm.	SO <sub>2</sub> NO <sub>2</sub> O <sub>3</sub>	F010006-01	ea	67	3	64
9	Glass Fiber Filter Media 8" x 10" (100Sheet/Box)(Brand:Whatman)	TSP High-Volume	EPM2000(GNGFG858X10-T)	SHEET	270	5	25
10	Silica/Quartz Micro Filter Filter Media 8" x 10" (50Sheet/Box)(Brand:Whatman)PM-10	PM-10 High-Volume	QMAEQHVQMASX10-T)	SHEET	322	5	317

# Weekly report

[illegible]

Weekly Report _ AAQM-RB			
Site :	Ratchaburi Power Plant	Week No.	2
Date :	8-Jan-24 to 14-Jan-24		
ผู้ปฏิบัติงาน :	1) นาย พงศ์วิริยะ เชาวลิตร	2)	
	3)	4)	
พชร. :	นาย สง่า กรุ่มรัมย์		
สรุปรายละเอียดการปฏิบัติงาน			
- Data logger ปกติ			
- Station โดยรอบปกติ			
- Standard gas 1700 psi			
- Replace filter high-volume (Run 11/01/2024)			
- Cal. Mass/Flow Calibrator			
- ทำความสะอาดชุดชักตัวอย่างและอุปกรณ์ทั้งหมดในระบบตรวจวัด			
- Cal. Flow PM-10/2.5, TSP Analyzer			
Remark :			
นาย พงศ์วิริยะ เชาวลิตร			
ผู้ปฏิบัติงาน			
Date :	15-Jan-2024		

[illegible]





## Calibration result

## Calibration Sheet

Project : Ratchaburi Power Plant

Page 01

Site No. : 5

Station : Donsai

Date : 16 Jan 67

Start Time : 15.00

Analyzer	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>	Standard Gas	SO <sub>2</sub>	NO <sub>x</sub>	Remark
Manufacture	ECOTECH	Thermo	ECOTECH	Cylinder No.	D 636099		
Model	EC 9850B	42IQ-BBANN	EC 9810 B	Concentration	50.10	51.90	
Serial No.	05-1274	1181510016	06-0001	Multi Gas Calibrator			
Range	0 - 500 ppb	0 - 500 ppb	0 - 500 ppb	Model : Sabio(4010)	Serial No. : -		

Phase	Set Point	Desire Value			Monitor Value			Drift			% Drift			Factor
SO <sub>2</sub> Before Calibrate	Zero	0.0			1.0			-1.0			-0.2			Gain : 20.33
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			452.0			-2.0			-0.4			
SO <sub>2</sub> After Calibrate	Zero	0.0			-			-			-			Gain : -
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			-			-			-			
		NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	
NO <sub>x</sub> Before Calibrate	Zero	0.0	0.0	0.0	2.9	1.2	4.0	-2.9	-1.2	-4.0	-0.6	-0.2	-0.8	NO COEF : 1.056 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 0.989
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	150.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	441.0	-5.0	437.0	9.0	5.0	13.0	2.0	1.1	2.9	
NO <sub>x</sub> After Calibrate	Zero	0.0	0.0	0.0	2.0	1.0	3.0	-2.0	-1.0	-3.0	-0.4	-0.2	-0.6	NO COEF : 1.077 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 1.002
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	150.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	450.0	1.0	451.0	0.0	-1.0	-1.0	0.0	-0.2	-0.2	
O <sub>3</sub> Before Calibrate	Zero	0.0			-3.0			3.0			0.6			Gain : 0.984
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			453.0			-3.0			-0.7			
O <sub>3</sub> After Calibrate	Zero	0.0			1.0			-1.0			-0.2			Gain : 0.977
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			450.0			0.0			0.0			
	Zero Drift = Desire Value - Monitor Valve % Zero Drift = (Zero Drift/Full Scale) * 100 % Zero Drift +/- 3% Accept Data							Span Drift = Desire Valve - Monitor Value % Span Drift = (Span Drift/Desire Value) * 100 % Span Drift +/- 5% Accept Data						

Calibrate by : Pongviriyi

Finish Time : 16.00

Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Comment : \_\_\_\_\_

MassFlow Calibration

MassFlow Donsai

Massflow Calibration (15 January 2024)

AAQM-DONSAI

Sabio 4010 S/N 10260306

SPECIFICATION OF DILUTOR		
Manufacturer / อ้างอิง :	BIOS	
Model / รุ่น :	Defender 510-H	Defender 510-L
Serial number/ หมายเลข :	205888	206855
Reference Certification/ อ้างอิง :	-	-

Ambient			
Press.(mBar)	Temp.( <sup>o</sup> C)	Press.(mmHg)	Temp.(K)
992.8	29	744.73	302.15

Massflow 1 (Zero Air)				
Point.	Control Volt	Monitor Volt	Actual Flow (lpm.)	Std.Flow (slpm.)
1	0.500	0.5033	1.0014	0.968
2	1.000	1.0062	1.9485	1.883
3	1.500	1.5028	2.8579	2.762
4	2.000	2.0030	3.7317	3.606
5	2.500	2.5044	4.5804	4.427
6	3.000	3.0016	5.4150	5.233
7	3.500	3.4984	6.2408	6.031
8	4.000	4.0066	7.0495	6.813
9	4.500	4.5049	7.8636	7.600
10	5.000	4.9990	8.6978	8.406

		Control	Monitor
Before Cal	A		
	B		
	C		
	cc.	0.999871	0.999862
After Cal.	A		
	B		
	C		
	cc.	0.999713	0.999709

MassFlow Donsai

Ambient			
Press.(mBar)	Temp.(°C)	Press.(mmHg)	Temp.(K)
992.8	29	744.73	302.15

Massflow 2 (Standard Gas)

Point.	Control Volt	Monitor Volt	Actual Flow (ccpm.)	Std.Flow (sccpm.)
1	0.500	0.5051	10.965	10.597
2	1.000	1.0037	21.502	20.781
3	1.500	1.5049	31.935	30.863
4	2.000	2.0031	41.945	40.538
5	2.500	2.5018	52.136	50.387
6	3.000	3.0025	62.327	60.236
7	3.500	3.5056	72.264	69.839
8	4.000	4.0008	82.340	79.577
9	4.500	4.4971	92.506	89.402
10	5.000	5.0020	103.260	99.795

	Parameter	Control	Mornitor
Before Cal.	A		
	B		
	C		
	cc.	0.999945	0.999946
After Cal.	A		
	B		
	C		
	cc.	0.999973	0.999975

MassFlow Donsai

Ambient			
Press.(mBar)	Temp.(°C)	Press.(mmHg)	Temp.(K)
992.8	29	744.73	302.15

Ozonce MassFlow Control

Point.	Control Volt	Monitor Volt	Actual Flow (ccpm.)	Std.Flow (sccpm.)
1	0.500	0.4603	55.456	53.595
2	1.000	0.9491	83.163	80.373
3	1.500	1.4697	105.560	102.018
4	2.000	1.9638	124.560	120.380
5	2.500	2.4621	140.710	135.989
6	3.000	2.9626	156.160	150.920
7	3.500	3.4641	171.530	165.774
8	4.000	3.9672	184.740	178.541
9	4.500	4.4630	197.540	190.912
10	5.000	4.9634	209.400	202.374

	Parameter	Control	Mornitor
Before Cal.	A		
	B		
	C		
	cc.	0.991349	0.991285
After Cal.	A		
	B		
	C		
	cc.	0.991846	0.991944



รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาเวอร์ จำกัด

ประจำเดือนกุมภาพันธ์ 2567

เสนอต่อ

บริษัท ราชบุรีเพาเวอร์ จำกัด

โดย

ฝ่ายสิ่งแวดล้อมโครงการ

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาเวอร์ จำกัด  
ประจำเดือนกุมภาพันธ์ 2567

รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาเวอร์ จำกัด  
เดือนกุมภาพันธ์ 2567

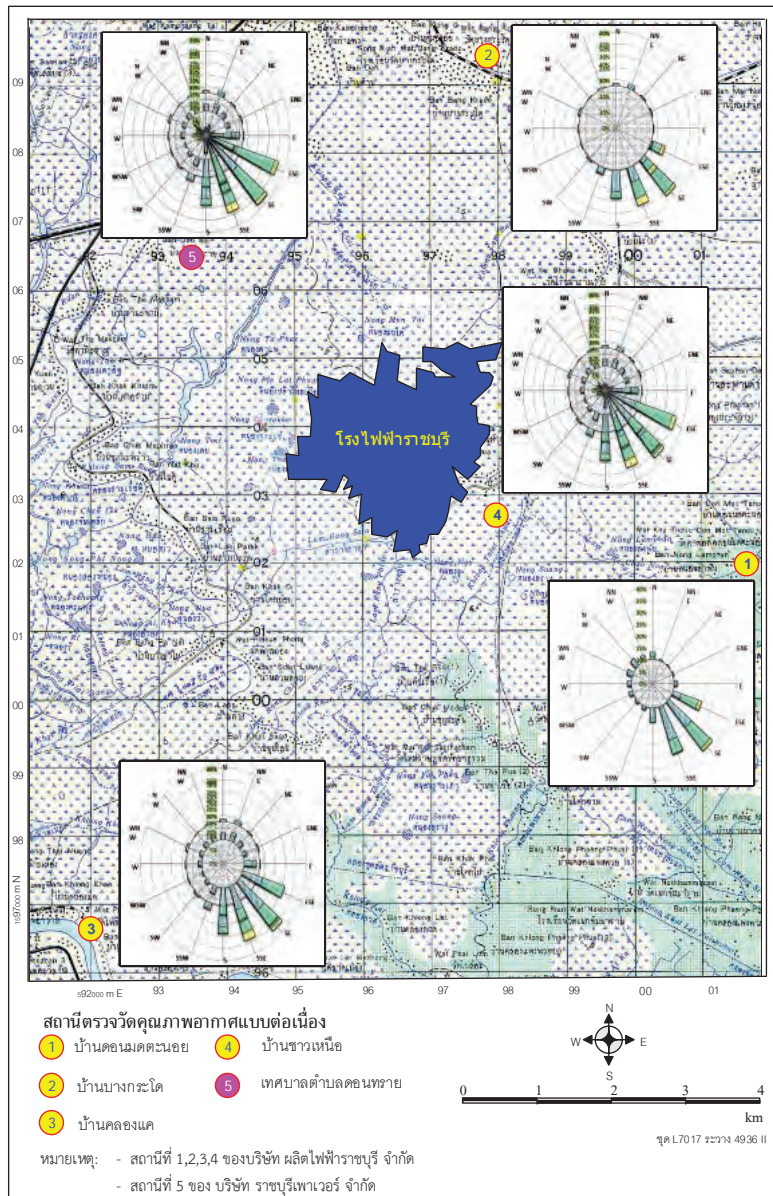
ผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง บริษัท ราชบุรีเพาเวอร์ จำกัด ประจำเดือนกุมภาพันธ์ 2567 จากสถานีตรวจวัดคุณภาพอากาศเทศบาลตำบลดอนทราย ผลการตรวจวัดดัชนีคุณภาพอากาศ พบว่า ฝุ่นละอองรวม ฝุ่นละอองขนาดไม่เกิน 10 ไมครอน ก๊าซซัลเฟอร์ไดออกไซด์ และก๊าซไนโตรเจนไดออกไซด์ มีค่าอยู่ในเกณฑ์มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไปตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ยกเว้นค่าฝุ่นละอองขนาดไม่เกิน 2.5 ไมครอน และก๊าซโอโซน ที่พบว่ามีค่าเกินเกณฑ์มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป เป็นครั้งคราวดังนี้

- ฝุ่นละอองขนาดไม่เกิน 2.5 ไมครอน ในวันที่ 1, 5-7, 11-15 กุมภาพันธ์ 2567 มีค่าระหว่าง  $37.7 - 94.1 \mu\text{g}/\text{m}^3$
- ก๊าซโอโซน ในวันที่ 13 และ 14 กุมภาพันธ์ 2567 มีค่า 125 และ 130 ppb ตามลำดับ

สรุปผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง (กุมภาพันธ์ 2567)

สถานีตรวจวัด	ค่าเฉลี่ยในเวลา 24 ชั่วโมง				ค่าเฉลี่ยในเวลา 1 ชั่วโมง		
	( $\mu\text{g}/\text{m}^3$ )			(ppb)	(ppb)		
	TSP	PM-10	PM-2.5	SO <sub>2</sub>	SO <sub>2</sub>	NO <sub>2</sub>	O <sub>3</sub>
เทศบาลตำบลดอนทราย	33-155	25-117	13.2-94.1*	1-4	0-8	0-26	1-130*
มาตรฐาน	330	120	37.5	120	300	170	100

หมายเหตุ : มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป ตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 21 (พ.ศ. 2544) ฉบับที่ 24 (พ.ศ. 2547) ฉบับที่ 28 (พ.ศ. 2550) ฉบับที่ 33 (พ.ศ. 2552), ราชกิจจานุเบกษา เล่ม 139 ตอนพิเศษ 163ง (พ.ศ. 2565)



แผนที่แสดงตำแหน่งที่ตั้งสถานีตรวจวัดคุณภาพอากาศแบบต่อเนื่อง ของ บริษัท ผลิตไฟฟ้าราชบุรี จำกัด และ บริษัท ราชบุรีเพาเวอร์ จำกัด

สถานีเทศบาลตำบลดอนทราย



# MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : February

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)		O <sub>3</sub> (ppb)		O <sub>2</sub> (%)
	24-Hr. Avg.	1-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	
1 Feb 24	1	0 - 3	5	1 - 18	2 - 62		N/A
2 Feb 24	1	0 - 2	3	1 - 6	2 - 44		N/A
3 Feb 24	3	0 - 5	3	1 - 7	2 - 45		N/A
4 Feb 24	2	0 - 3	4	2 - 14	2 - 49		N/A
5 Feb 24	3	0 - 4	6	2 - 17	3 - 60		N/A
6 Feb 24	3	1 - 5	7	2 - 20	1 - 83		N/A
7 Feb 24	2	1 - 5	8	2 - 17	2 - 92		N/A
8 Feb 24	3	1 - 7	7	2 - 18	2 - 68		N/A
9 Feb 24	2	1 - 4	3	0 - 11	1 - 25		N/A
10 Feb 24	2	1 - 3	2	1 - 7	2 - 28		N/A
11 Feb 24	2	1 - 4	8	2 - 21	7 - 70		N/A
12 Feb 24	3	2 - 4	10	5 - 26	5 - 90		N/A
13 Feb 24	1	0 - 4	13	4 - 21	5 - 125*		N/A
14 Feb 24	4	2 - 8	10	4 - 23	8 - 130*		N/A
15 Feb 24	3	2 - 7	9	2 - 24	3 - 100		N/A
16 Feb 24	4	2 - 5	4	2 - 13	2 - 59		N/A
17 Feb 24	3	2 - 4	2	0 - 8	4 - 44		N/A
18 Feb 24	4	3 - 4	2	1 - 5	4 - 34		N/A
19 Feb 24	4	4 - 5	2	0 - 4	3 - 32		N/A
20 Feb 24	3	2 - 4	2	0 - 6	2 - 37		N/A
21 Feb 24	3	1 - 4	1	0 - 3	3 - 30		N/A
22 Feb 24	3	2 - 4	1	0 - 2	3 - 25		N/A
23 Feb 24	4	3 - 4	0	0 - 1	5 - 34		N/A
24 Feb 24	3	2 - 4	1	0 - 2	4 - 41		N/A
25 Feb 24	3	2 - 4	1	0 - 8	3 - 49		N/A
26 Feb 24	3	2 - 4	1	0 - 2	5 - 57		N/A
27 Feb 24	3	2 - 5	2	0 - 3	4 - 68		N/A
28 Feb 24	3	2 - 4	3	1 - 8	3 - 55		N/A
29 Feb 24	2	1 - 3	2	0 - 3	4 - 45		N/A
Range	1 - 4	0 - 8	0 - 13	0 - 26	1 - 130*		-
Number of times (exceeded standard)	0	0	0	0	2		-
Total	29	29	29	29	29		-
Monitoring Hour	689	689	685	685	690		-
Ambient Air Quality Standard	120	300	-	170	100		-

Remark :-  
1) Standards = Ambient Air Quality Standards of the National Environment Board  
2) SO<sub>2</sub> = Sulfur Dioxide 5) N/A = Data not Available  
3) NO<sub>2</sub> = Nitrogen Dioxide 6) \* = Exceeding air quality standard  
4) O<sub>3</sub> = Ozone 7) - = Not Measurement



# MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

MONTH : February

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date	Concentration (24-Hr Avg)				
	TSP (µg/m <sup>3</sup> )		PM-10 (µg/m <sup>3</sup> )		PM-2.5 (µg/m <sup>3</sup> )
	Micro balance	Hi volume	Micro balance	Hi volume	Micro balance
1 Feb 24	66		57		40.5*
2 Feb 24	43		38		24.0
3 Feb 24	46		39		25.4
4 Feb 24	48	53	41	34	26.4
5 Feb 24	70		54		37.7*
6 Feb 24	100		77		60.3*
7 Feb 24	85		67		49.9*
8 Feb 24	70		50		33.6
9 Feb 24	52		33		21.3
10 Feb 24	51	48	37	30	26.6
11 Feb 24	99		65		39.4*
12 Feb 24	126		85		59.1*
13 Feb 24	155		111		82.2*
14 Feb 24	146		117		94.1*
15 Feb 24	129		102		80.0*
16 Feb 24	63	73	53	46	35.1
17 Feb 24	52		43		26.1
18 Feb 24	44		34		18.4
19 Feb 24	55		32		16.5
20 Feb 24	39		27		14.4
21 Feb 24	40		25		13.2
22 Feb 24	35	61	25	25	13.4
23 Feb 24	33		25		14.2
24 Feb 24	39		30		18.1
25 Feb 24	47		36		23.2
26 Feb 24	53		41		27.2
27 Feb 24	67		50		32.7
28 Feb 24	59	64	43	37	27.5
29 Feb 24	48		33		20.0
Range	33 - 155	48 - 73	25 - 117	25 - 46	13.2 - 94.1*
Number of times (exceeded standard)	0	0	0	0	10
Total	29	5	29	5	29
Monitoring Hour	685	120	682	120	682
Ambient Air Quality Standard	330	330	120	120	37.5

Remark :-  
1) Standards = Ambient Air Quality Standards of the National Environment Board  
2) TSP = Total Suspended Particulate  
3) PM-10 = Particulate Matter less than 10 µm  
4) PM-2.5 = Particulate Matter with diameter of less than 2.5 micron



## MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : February

MONITORING STATION : Donsai Sub-district

YEAR : 2024

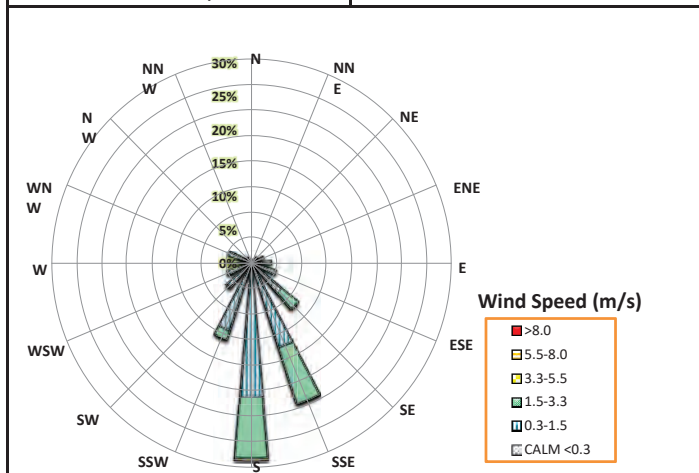
Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Feb 24	23.9	36.9	29.3	50	98	79	1,007	1,014	1,010	0.0
2 Feb 24	24.7	37.5	29.8	49	99	79	1,005	1,012	1,008	0.0
3 Feb 24	25.0	38.3	30.3	49	98	79	1,005	1,012	1,008	0.0
4 Feb 24	25.6	38.8	30.9	38	98	72	1,005	1,014	1,009	0.0
5 Feb 24	24.1	40.0	30.5	35	96	71	1,005	1,013	1,008	0.6
6 Feb 24	23.9	39.4	30.0	36	94	71	1,005	1,013	1,009	0.0
7 Feb 24	22.5	38.9	29.5	33	98	73	1,003	1,012	1,007	0.0
8 Feb 24	21.7	39.1	29.4	35	97	73	1,002	1,009	1,005	5.2
9 Feb 24	23.7	37.4	29.7	51	100	82	1,004	1,011	1,008	0.0
10 Feb 24	25.6	35.7	29.7	61	98	83	1,009	1,015	1,011	0.0
11 Feb 24	24.0	32.3	27.7	53	95	71	1,013	1,020	1,015	0.0
12 Feb 24	22.5	33.0	26.8	48	85	68	1,012	1,019	1,014	0.0
13 Feb 24	21.4	35.1	27.0	44	91	70	1,008	1,015	1,011	0.0
14 Feb 24	22.4	38.6	29.1	39	88	64	1,005	1,013	1,009	0.0
15 Feb 24	23.2	38.4	29.8	42	93	71	1,006	1,012	1,008	0.0
16 Feb 24	25.5	38.3	30.5	52	98	79	1,006	1,012	1,008	0.0
17 Feb 24	25.7	37.2	30.4	54	95	79	1,003	1,010	1,006	0.0
18 Feb 24	25.9	36.9	30.1	53	95	78	1,004	1,011	1,007	0.0
19 Feb 24	23.2	37.5	29.6	49	97	77	1,004	1,010	1,006	0.0
20 Feb 24	24.9	37.7	30.5	48	97	77	1,002	1,010	1,005	0.0
21 Feb 24	25.0	36.8	30.5	55	98	78	1,002	1,008	1,004	0.0
22 Feb 24	25.2	37.1	30.5	53	98	78	1,003	1,010	1,006	0.0
23 Feb 24	25.8	38.4	30.9	50	97	78	1,004	1,011	1,007	0.0
24 Feb 24	25.7	38.0	30.8	49	96	78	1,005	1,011	1,007	0.0
25 Feb 24	26.0	38.9	31.3	47	94	74	1,004	1,010	1,006	0.0
26 Feb 24	25.9	38.0	31.2	52	95	76	1,003	1,010	1,006	0.0
27 Feb 24	25.7	38.1	31.2	48	96	74	1,004	1,010	1,006	0.0
28 Feb 24	24.9	38.8	31.0	47	95	74	1,001	1,007	1,004	0.0
29 Feb 24	26.2	38.8	31.1	50	95	76	1,002	1,008	1,005	0.0
Total	21.4	40.0	30.0	33	100	75	1,001	1,020	1,008	5.8
Day	29			29			29			29
Hours	694			694			694			694

Remarks :- P = Power Fail ,F = Equipment Fail , N/A = Data not Available



Date/Month/Year : 1-29/February/2024

STATION : Donsai Sub-district



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	0.15%	0.00%	0.00%	0.00%	0.00%	0.15%
NNE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NE	0.88%	0.15%	0.00%	0.00%	0.00%	1.03%
ENE	0.74%	1.18%	0.00%	0.00%	0.00%	1.91%
E	1.47%	1.47%	0.00%	0.00%	0.00%	2.95%
ESE	2.50%	1.33%	0.00%	0.00%	0.00%	3.83%
SE	5.89%	3.24%	0.00%	0.00%	0.00%	9.13%
SSE	13.25%	8.98%	0.00%	0.00%	0.00%	22.24%
S	20.03%	9.28%	0.29%	0.00%	0.00%	29.60%
SSW	10.60%	1.47%	0.00%	0.00%	0.00%	12.08%
SW	4.71%	0.29%	0.00%	0.00%	0.00%	5.01%
WSW	3.68%	0.15%	0.00%	0.00%	0.00%	3.83%
W	3.24%	0.15%	0.00%	0.00%	0.00%	3.39%
WNW	3.68%	0.00%	0.00%	0.00%	0.00%	3.68%
NW	1.03%	0.00%	0.00%	0.00%	0.00%	1.03%
NNW	0.15%	0.00%	0.00%	0.00%	0.00%	0.15%
	72.02%	27.69%	0.29%	0.00%	0.00%	100.00%

No. of Monitored Hours	696	Hours	No. of Calm	0	Hours
No. of Monitored Days	29	Days	Calm (%)	0.00%	
Missing Data	17	Hours	Average Wind Speed	1.09	m/s
No. of Valid Data	679	Hours	Maximum Wind Speed	4.00	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction	S	

Equipment Status of Donsai Sub-district Monitoring Station "February 2024"							
No.	Site	Analyzer	Brand	Model	S/N	Status	Description
5	ดอนทราย	SO <sub>2</sub>	Ecotech	EC98508	05-1274	Normal	
		O <sub>3</sub>	Ecotech	EC98108	06-0001	Normal	
		NO <sub>2</sub>	Thermo	42iQ	-	Normal	
		DUST (PM - 10/2.5)	Thermo	1405DF	1405A248712190	Normal	
		DUST (TSP)	Thermo	1405	1405A250862311	Normal	
		O <sub>2</sub>	Riken keiki	OX-600		Fail	- Board Fail ไม่สามารถเชื่อมต่อได้ อยู่ระหว่างจัดซื้อเครื่องใหม่ทดแทน
		Hivolume air sampler(PM-10)	Ecotech	HV53000	05-1104	Normal	
		Hivolume air sampler(TSP)	Ecotech	HV53000	05-1103	Normal	
		WIND SPEED	Met One	010C	E7612	Normal	
		WIND DIRECTION	Met One	020C	F1128	Normal	
		AT/RH	Met One	083D-1-35	F1320	Normal	
		BAROMATIC PRESSURE	Met One	090D	F1231	Normal	
		Raingauge	Met One	-	-	Normal	
		Multi Translator	Met One	2270	F1284	Normal	
		Data Logger	ADVANTECH	IPC-510		Normal	
		Multi Gas Calibration	SABIO	4010	10260306	Normal	
		Zero Air Generator	SABIO	1001	030614768	Normal	
		Modem	Tornado	FMV56.0E	4088712	Normal	
		Air Condition 1	Daikin	AR18DV2S	E003687	Normal	
		Air Condition 2	Daikin	AR18DV2S	E002831	Normal	

ภาคผนวก



สถานีบ้านดอนมดตะนอย  
(สถานที่ตรวจวัด : วัดนักบุญอันโตนิโอ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : February

MONITORING STATION : Ban Don Mod Tanoi

YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Feb 24	49	44	1	1 - 2	3 - 12	1 - 75
2 Feb 24	38	31	1	1	3 - 11	1 - 63
3 Feb 24	37	29	1	1 - 2	3 - 10	1 - 64
4 Feb 24	32	28	1	1 - 2	2 - 9	1 - 58
5 Feb 24	42	41	1	1 - 2	3 - 11	2 - 80
6 Feb 24	53	N/A	1	1 - 3	4 - 15	0 - 73
7 Feb 24	52	N/A	1	1	5 - 10	0 - 84
8 Feb 24	50	N/A	1	1	4 - 8	0 - 70
9 Feb 24	37	N/A	1	1 - 2	2 - 9	0 - 40
10 Feb 24	46	N/A	1	1	3 - 10	2 - 43
11 Feb 24	62	N/A	2	1 - 2	6 - 18	10 - 85
12 Feb 24	98	N/A	2	1 - 3	9 - 25	10 - 99
13 Feb 24	88	N/A	2	1 - 4	6 - 20	3 - 138*
14 Feb 24	112	N/A	2	1 - 6	7 - 25	4 - 134*
15 Feb 24	82	N/A	2	1 - 4	3 - 21	0 - 98
16 Feb 24	54	N/A	1	1	3 - 8	7 - 69
17 Feb 24	40	N/A	1	1	1 - 9	1 - 53
18 Feb 24	41	N/A	1	1	1 - 6	5 - 38
19 Feb 24	34	N/A	1	1	1 - 10	1 - 35
20 Feb 24	34	N/A	1	1	1 - 6	0 - 44
21 Feb 24	33	N/A	1	1	1 - 6	1 - 36
22 Feb 24	32	N/A	1	1	1 - 6	2 - 34
23 Feb 24	33	N/A	1	1	1 - 6	4 - 42
24 Feb 24	34	N/A	1	1	1 - 6	4 - 51
25 Feb 24	45	N/A	1	1	1 - 7	5 - 54
26 Feb 24	51	N/A	1	1 - 2	1 - 11	6 - 71
27 Feb 24	63	N/A	1	1 - 2	1 - 10	6 - 76
28 Feb 24	55	N/A	1	1 - 2	1 - 9	2 - 58
29 Feb 24	33	N/A	1	1	1 - 7	3 - 51
Range	32 - 112	28 - 44	1 - 2	1 - 6	1 - 25	0 - 138*
Number of times (exceeded standard)	0	0	0	0	0	2
Total Day	29	5	29	29	29	29
Monitoring Hour	672	117	664	664	662	663
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10  $\mu\text{m}$   
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

## MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : February

MONITORING STATION : Ban Don Mod Tanoi

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Feb 24	23.3	35.2	28.1	43	99	81	1,012	1,017	1,014	0.0
2 Feb 24	23.5	36.2	28.7	41	99	80	1,011	1,016	1,013	0.0
3 Feb 24	24.3	36.1	29.1	42	99	80	1,011	1,016	1,013	0.0
4 Feb 24	24.7	37.1	29.5	28	99	74	1,011	1,017	1,014	0.0
5 Feb 24	23.1	38.4	29.3	25	99	72	1,011	1,016	1,013	0.0
6 Feb 24	23.1	37.0	28.7	25	99	73	1,011	1,016	1,014	0.0
7 Feb 24	22.5	37.1	28.5	21	99	73	1,010	1,016	1,013	0.0
8 Feb 24	22.1	36.5	28.2	28	100	77	1,009	1,014	1,011	0.2
9 Feb 24	22.7	35.4	28.4	40	100	81	1,011	1,015	1,013	0.2
10 Feb 24	24.7	33.9	28.9	53	99	82	1,014	1,018	1,015	0.0
11 Feb 24	23.0	30.8	26.4	43	99	71	1,016	1,021	1,018	0.0
12 Feb 24	20.5	31.1	25.3	38	99	72	1,016	1,021	1,018	0.0
13 Feb 24	19.9	33.8	26.4	32	99	70	1,013	1,018	1,016	0.0
14 Feb 24	21.0	36.6	27.8	27	99	65	1,011	1,017	1,014	0.0
15 Feb 24	22.5	37.1	28.7	33	99	73	1,011	1,016	1,014	0.0
16 Feb 24	24.9	36.2	29.3	44	99	80	1,011	1,015	1,013	0.0
17 Feb 24	25.1	35.9	29.3	44	99	79	1,009	1,014	1,012	0.0
18 Feb 24	24.7	34.8	28.6	44	99	80	1,010	1,015	1,012	0.0
19 Feb 24	22.3	35.1	28.3	40	99	78	1,010	1,014	1,012	0.0
20 Feb 24	23.8	36.0	29.2	38	99	76	1,009	1,014	1,011	0.0
21 Feb 24	24.2	35.3	29.3	50	99	79	1,009	1,013	1,011	0.0
22 Feb 24	24.6	35.5	29.3	44	99	79	1,010	1,014	1,012	0.0
23 Feb 24	24.9	36.9	29.9	41	99	79	1,010	1,015	1,012	0.0
24 Feb 24	24.7	36.5	29.5	39	99	79	1,011	1,015	1,012	0.0
25 Feb 24	25.2	37.7	30.1	36	99	74	1,010	1,014	1,012	0.0
26 Feb 24	25.6	36.5	30.2	43	99	75	1,010	1,014	1,012	0.0
27 Feb 24	25.2	36.2	30.0	38	99	72	1,010	1,014	1,012	0.0
28 Feb 24	24.1	36.8	29.7	38	99	73	1,008	1,012	1,010	0.0
29 Feb 24	25.5	36.9	29.9	41	99	74	1,009	1,013	1,011	0.0
Total	19.9	38.4	28.8	21	100	76	1,008	1,021	1,013	0.4
Day	29			29			29			29
Hours	696			696			696			696

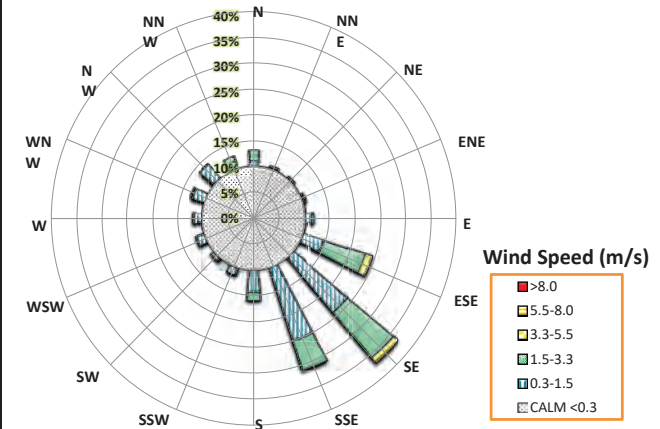
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-29/February/2024

STATION : Ban Don Mod Tanoi



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	1.01%	2.16%	0.00%	0.00%	0.00%	3.16%
NNE	0.14%	0.43%	0.00%	0.00%	0.00%	0.57%
NE	0.29%	0.14%	0.00%	0.00%	0.00%	0.43%
ENE	0.29%	0.29%	0.00%	0.00%	0.00%	0.57%
E	1.15%	0.43%	0.00%	0.00%	0.00%	1.58%
ESE	4.31%	8.48%	1.58%	0.00%	0.00%	14.37%
SE	13.94%	11.78%	1.29%	0.00%	0.00%	27.01%
SSE	15.09%	6.03%	0.14%	0.00%	0.00%	21.26%
S	4.31%	1.58%	0.00%	0.00%	0.00%	5.89%
SSW	1.44%	0.00%	0.00%	0.00%	0.00%	1.44%
SW	0.86%	0.00%	0.00%	0.00%	0.00%	0.86%
WSW	1.72%	0.00%	0.00%	0.00%	0.00%	1.72%
W	1.58%	0.14%	0.00%	0.00%	0.00%	1.72%
WNW	2.59%	0.29%	0.00%	0.00%	0.00%	2.87%
NW	3.59%	0.14%	0.00%	0.00%	0.00%	3.74%
NNW	1.58%	1.01%	0.00%	0.00%	0.00%	2.59%
	53.88%	32.90%	3.02%	0.00%	0.00%	89.80%

No. of Monitored Hours	696	Hours	No. of Calm	71	Hours
No. of Monitored Days	29	Days	Calm (%)	10.20%	
Missing Data	0	Hours	Average Wind Speed	1.32	m/s
No. of Valid Data	696	Hours	Maximum Wind Speed	3.90	m/s
Prevailing Wind Direction				SE	

Equipment Status of Ban Don Mod Tanoi Monitoring Station "February 2024"								
No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No.	Description
1	บ้านดอนมดตะนอย (วัดนันทบุรุษ)	SO <sub>2</sub>	Thermo Scientific	43i-BZSCA	1162850018	Normal	20511164	
		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDCA	1162850016	Normal	20511166	
		O <sub>3</sub>	Thermo Scientific	49i-BZNCA	1162850020	Normal	20511168	
		DUST (TSP)	Thermo Scientific	5014/5030i	CM16461002	Normal	20511172	
		DUST (PM - 10)	Thermo Scientific	5014/5030i	CM16471015	Normal	20511170	- Protection Foil with grid เสื่อมสภาพ อยู่ระหว่าง
								ส่งตรวจเช็คกับ บ. PICO ทำไม่ได้มีข้อมูลตรวจวัด
								ระหว่างวันที่ 6 - 29 Feb 2024
		ZERO AIR	Thermo Scientific	1160 BHP2N	1162850022	Normal	20511174	
		CALIBRATOR	Thermo Scientific	146i-BB6BPCA	1162850024	Normal	20511176	
		DATA LOGGER	ADVANTECH	IPC-50	KMA1478934	Normal	60110253.1.3.4	
		Switch Hub 16 port	TP-LINK	TL-SF1016	12886700507	Normal	-	
		UPS	Power Matic	TR-3000	13KEI00080	Normal	-	
		Display LCD 20"	hp	P201	6CM3151950	Normal	60110253.2	
		Keyboard	Logitech	K220	13145C105F28	Normal	-	
		Mouse	Logitech	M150	-	Normal	-	
		Standard Gas	Airgas	-	LL111365	Normal	-	
		WIND SPEED	LASTEM	DMA-827	-	Normal	-	
		WIND DIRECTION	LASTEM					
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506500	Normal	-	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506500	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404016	Normal	-	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	-	

สถานีบ้านบางกะโด  
(สถานที่ตรวจวัด : วัดบางกะโด)

MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : February

MONITORING STATION : Wat Bang Gado

YEAR : 2024

Date	Concentration					
	TSP (µg/m <sup>3</sup> )	PM-10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Feb 24	68	48	1	1 - 2	3 - 10	5 - 67
2 Feb 24	57	34	1	1 - 2	2 - 7	5 - 58
3 Feb 24	58	41	1	1 - 2	2 - 8	4 - 58
4 Feb 24	58	40	1	1 - 2	2 - 11	4 - 52
5 Feb 24	75	53	1	1 - 2	2 - 11	3 - 65
6 Feb 24	79	62	2	1 - 2	3 - 15	3 - 80
7 Feb 24	76	63	2	1 - 3	4 - 15	3 - 81
8 Feb 24	67	41	1	1 - 2	3 - 13	3 - 65
9 Feb 24	53	32	1	1 - 2	1 - 5	2 - 40
10 Feb 24	52	35	1	1	1 - 6	6 - 41
11 Feb 24	88	64	2	1 - 3	4 - 15	9 - 73
12 Feb 24	110	88	2	1 - 4	7 - 22	8 - 86
13 Feb 24	122	107	2	1 - 5	7 - 22	7 - 117*
14 Feb 24	132	122*	3	2 - 7	6 - 22	8 - 133*
15 Feb 24	113	97	2	1 - 7	4 - 23	4 - 91
16 Feb 24	65	49	1	1 - 2	3 - 11	3 - 71
17 Feb 24	56	39	1	1 - 2	2 - 8	7 - 52
18 Feb 24	56	35	1	1	1 - 6	9 - 38
19 Feb 24	51	33	1	1	2 - 7	2 - 36
20 Feb 24	41	23	1	1 - 2	1 - 6	2 - 40
21 Feb 24	38	26	1	1	1 - 6	3 - 35
22 Feb 24	38	22	1	1 - 2	1 - 5	5 - 34
23 Feb 24	38	26	1	1 - 2	1 - 5	9 - 38
24 Feb 24	45	28	1	1	2 - 7	9 - 47
25 Feb 24	50	34	1	1 - 2	2 - 8	7 - 50
26 Feb 24	57	35	1	1 - 2	2 - 8	8 - 63
27 Feb 24	70	51	1	1 - 2	1 - 8	8 - 68
28 Feb 24	60	42	1	1 - 2	2 - 9	4 - 50
29 Feb 24	49	29	1	1 - 2	1 - 6	7 - 48
Range	38 - 132	22 - 122*	1 - 3	1 - 7	1 - 23	2 - 133*
Number of times (exceeded standard)	0	1	0	0	0	2
Total	29	29	29	29	29	29
Monitoring Hour	696	696	667	667	667	667
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10 µm  
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement

MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : February

MONITORING STATION : Wat Bang Gado

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Feb 24	23.6	34.5	28.1	47	94	75	1,011	1,017	1,014	0.0
2 Feb 24	24.2	34.7	28.5	46	95	75	1,010	1,015	1,013	0.0
3 Feb 24	24.7	35.2	29.1	45	93	73	1,010	1,015	1,013	0.0
4 Feb 24	25.3	36.8	29.8	30	93	67	1,010	1,016	1,013	0.0
5 Feb 24	23.7	37.4	29.4	28	93	65	1,010	1,016	1,013	0.0
6 Feb 24	23.6	36.7	29.0	27	92	64	1,010	1,016	1,013	0.0
7 Feb 24	22.5	36.8	28.5	24	96	66	1,009	1,015	1,012	0.0
8 Feb 24	22.1	35.8	28.1	28	95	71	1,008	1,013	1,011	0.0
9 Feb 24	23.4	34.3	28.3	44	99	79	1,011	1,015	1,012	0.0
10 Feb 24	25.3	32.5	28.7	58	95	78	1,013	1,017	1,015	0.0
11 Feb 24	22.9	30.3	26.3	47	94	67	1,016	1,021	1,018	0.0
12 Feb 24	20.9	30.7	25.5	42	82	64	1,015	1,020	1,017	0.0
13 Feb 24	19.9	33.5	26.4	36	87	64	1,012	1,018	1,015	0.0
14 Feb 24	21.9	35.9	28.0	30	83	57	1,010	1,016	1,013	0.0
15 Feb 24	22.7	36.1	28.7	35	92	67	1,011	1,015	1,013	0.0
16 Feb 24	25.2	35.6	29.3	47	93	75	1,010	1,015	1,013	0.0
17 Feb 24	25.2	34.4	29.1	50	92	74	1,009	1,013	1,011	0.0
18 Feb 24	25.3	33.7	28.7	49	89	73	1,009	1,014	1,012	0.0
19 Feb 24	22.6	33.9	28.2	43	95	72	1,009	1,014	1,012	0.0
20 Feb 24	24.5	34.7	29.1	42	92	72	1,008	1,014	1,011	0.0
21 Feb 24	24.5	34.1	29.0	52	95	74	1,008	1,012	1,010	0.0
22 Feb 24	24.9	34.2	29.2	49	92	73	1,009	1,014	1,011	0.0
23 Feb 24	25.5	35.2	29.7	46	91	73	1,009	1,015	1,012	0.0
24 Feb 24	25.5	34.9	29.5	44	91	72	1,010	1,015	1,012	0.0
25 Feb 24	25.4	36.2	30.0	40	87	68	1,009	1,014	1,012	0.0
26 Feb 24	25.9	34.8	29.9	49	90	71	1,009	1,014	1,012	0.0
27 Feb 24	25.7	34.8	30.0	42	90	68	1,009	1,014	1,011	0.0
28 Feb 24	24.3	35.5	29.6	41	92	68	1,008	1,012	1,010	0.0
29 Feb 24	26.0	35.6	29.8	46	88	70	1,008	1,013	1,011	0.0
Total	19.9	37.4	28.7	24	99	70	1,008	1,021	1,013	0.0
Day	29			29			29			29
Hours	696			696			696			696

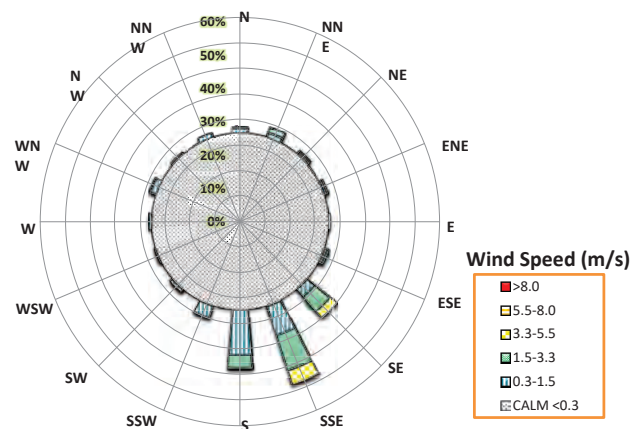
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-29/February/2024

STATION : Wat Bang Gado



Wind Speed (m/s)

Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	1.44%	0.43%	0.00%	0.00%	0.00%	1.87%
NNE	1.44%	1.58%	0.00%	0.00%	0.00%	3.02%
NE	0.72%	0.43%	0.00%	0.00%	0.00%	1.15%
ENE	0.57%	0.57%	0.00%	0.00%	0.00%	1.15%
E	0.43%	0.00%	0.00%	0.00%	0.00%	0.43%
ESE	0.72%	0.72%	0.00%	0.00%	0.00%	1.44%
SE	2.87%	5.75%	2.87%	0.00%	0.00%	11.49%
SSE	9.48%	10.92%	4.45%	0.00%	0.00%	24.86%
S	13.65%	3.88%	0.29%	0.00%	0.00%	17.82%
SSW	3.74%	0.43%	0.00%	0.00%	0.00%	4.17%
SW	1.01%	0.00%	0.00%	0.00%	0.00%	1.01%
WSW	0.29%	0.14%	0.00%	0.00%	0.00%	0.43%
W	0.86%	0.00%	0.00%	0.00%	0.00%	0.86%
WNW	1.72%	0.29%	0.00%	0.00%	0.00%	2.01%
NW	0.57%	0.00%	0.00%	0.00%	0.00%	0.57%
NNW	1.29%	0.00%	0.00%	0.00%	0.00%	1.29%
	40.80%	25.14%	7.61%	0.00%	0.00%	73.56%

No. of Monitored Hours	696	Hours	No. of Calm	184	Hours
No. of Monitored Days	29	Days	Calm (%)	26.44%	
Missing Data	0	Hours	Average Wind Speed	1.25	m/s
No. of Valid Data	696	Hours	Maximum Wind Speed	5.50	m/s

Wind Rose by : Air Quality and Noise Section : 2020/05

Prevailing Wind Direction

SSE

Equipment Status of Wat Bang Gado Monitoring Station "February 2024"

No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
2	วัดบางกะได	SO <sub>2</sub>	Thermo Scientific	43i-BZSAB	1315757998	Normal	20210097	
		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDAB	1315757995	Normal	20210099	
		O <sub>3</sub>	Thermo Scientific	49i-BZNA8	1315758000	Normal	20210101	
		DUST (TSP)	Thermo Scientific	5014i (in26-004-2)	CM13211004	Normal	20210095	
		DUST (PM - 10)	Thermo Scientific	5014i (in26-004-1)	CM13211003	Normal	20210093	
		ZERO AIR	Thermo Scientific	1160 BHR2C	1315758003	Normal	20210102.2	
		CALIBRATOR	Thermo Scientific	146i-BB3BEAB	1315758002	Normal	20210102.4	
		DATA LOGGER(Envirodis)	ADVANTECH	IPC-510	KMA1478929	Normal	60110254.0.1.3.4	
		Ethernet Switch	TP-LINK	TL-SF1016	12B86700508	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00077	Normal	-	
		Display LCD 20"	HP	P201	6CM3020GC2	Normal	60110254.2	
		KeyBoard Wireless	Logitech	K220	13145C105MA8	Normal	-	
		Mouse Wireless	Logitech	M150	13135CM0XGW8	Normal	-	
		Standard Gas	Airgas	-	LL156436	Normal	-	
		WIND SPEED	LASTEM	DNA 827	BZ 1506563	Normal	-	
		WIND DIRECTION	LASTEM	DNA 827	BZ 1506563	Normal	-	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506498	Normal	-	
		RELATIVE HUMIDITY	LASTEM	Sensor: DMA672.1	Sensor: 18080122	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404015	Normal	-	
		RAIN GAUGE	LASTEM	DQA 230.1	21120166	Normal	-	

สถานีบ้านคลองแค  
(สถานที่ตรวจวัด : วัดโพธิ์ราษฎร์บูรณะ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd. MONTH : February  
MONITORING STATION : Ban Klong Klae YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr Avg.	24-Hr Avg.	24-Hr Avg.	1-Hr Avg.	1-Hr Avg.	1-Hr Avg.
1 Feb 24	58	50	2	2 - 3	3 - 16	4 - 67
2 Feb 24	39	38	2	2 - 3	2 - 9	5 - 57
3 Feb 24	43	36	2	2 - 3	3 - 9	3 - 57
4 Feb 24	43	40	2	2 - 3	3 - 13	4 - 51
5 Feb 24	50	46	2	2 - 4	4 - 16	4 - 68
6 Feb 24	66	64	3	2 - 4	4 - 16	3 - 87
7 Feb 24	45	43	2	2 - 4	4 - 19	2 - 80
8 Feb 24	45	44	3	2 - 3	4 - 26	2 - 75
9 Feb 24	44	30	2	2 - 3	2 - 10	3 - 48
10 Feb 24	37	29	2	2 - 3	2 - 12	8 - 48
11 Feb 24	71	65	3	2 - 4	6 - 16	10 - 90
12 Feb 24	93	89	4	3 - 5	9 - 33	11 - 101*
13 Feb 24	101	100	4	3 - 7	8 - 32	5 - 132*
14 Feb 24	118	117	4	3 - 6	5 - 32	5 - 103*
15 Feb 24	104	101	4	2 - 8	5 - 39	5 - 102*
16 Feb 24	61	59	3	2 - 5	3 - 17	6 - 69
17 Feb 24	46	46	3	2 - 3	3 - 11	8 - 58
18 Feb 24	45	36	3	3 - 3	2 - 11	8 - 39
19 Feb 24	34	31	3	3 - 3	2 - 12	3 - 37
20 Feb 24	33	27	3	3 - 3	2 - 9	2 - 44
21 Feb 24	26	21	3	2 - 3	2 - 6	5 - 37
22 Feb 24	30	20	3	2 - 4	2 - 7	5 - 34
23 Feb 24	26	21	4	3 - 5	2 - 7	6 - 43
24 Feb 24	37	32	4	3 - 4	2 - 8	7 - 47
25 Feb 24	39	38	3	3 - 3	3 - 7	12 - 52
26 Feb 24	47	41	3	3 - 4	2 - 7	7 - 67
27 Feb 24	60	56	4	3 - 6	2 - 9	5 - 78
28 Feb 24	56	54	4	3 - 5	2 - 13	4 - 54
29 Feb 24	40	34	3	3 - 4	2 - 7	10 - 47
Range	26 - 118	20 - 117	2 - 4	2 - 8	2 - 39	2 - 132*
Number of times (exceeded standard)	0	0	0	0	0	4
Total	29	29	29	29	29	29
Monitoring Hour	693	694	664	664	654	662
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-

1) Standards	= Ambient Air Quality Standards of the National Environment Board	6) N/A	= Data not Available
2) TSP	= Total Suspended Particulate	7) *	= Exceeding air quality standard
3) PM-10	= Particulate Matter less than 10 $\mu\text{m}$	8) -	= Not Measurement
4) SO <sub>2</sub>	= Sulfur Dioxide		
5) NO <sub>2</sub>	= Nitrogen Dioxide		



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : February

MONITORING STATION : Ban Klong Klao

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Feb 24	23.1	35.2	28.2	43	100	80	1,011	1,016	1,013	0.0
2 Feb 24	24.1	35.4	28.6	44	99	80	1,009	1,015	1,012	0.0
3 Feb 24	24.3	35.5	29.1	42	100	77	1,010	1,015	1,012	0.0
4 Feb 24	25.2	36.6	29.8	30	99	70	1,010	1,016	1,013	0.0
5 Feb 24	24.0	37.0	29.7	27	99	68	1,009	1,015	1,012	0.0
6 Feb 24	23.9	36.3	29.0	27	99	70	1,009	1,015	1,012	0.0
7 Feb 24	22.4	36.6	28.7	22	99	72	1,008	1,014	1,011	0.0
8 Feb 24	22.2	36.8	28.5	25	99	72	1,007	1,013	1,010	0.0
9 Feb 24	22.9	35.3	28.2	45	100	82	1,010	1,014	1,012	0.2
10 Feb 24	25.2	34.1	28.9	50	99	82	1,012	1,017	1,014	0.0
11 Feb 24	23.5	30.5	26.6	45	99	67	1,015	1,020	1,017	0.0
12 Feb 24	22.0	30.6	25.9	40	75	60	1,014	1,020	1,017	0.0
13 Feb 24	20.5	33.0	26.6	35	99	64	1,011	1,017	1,014	0.0
14 Feb 24	21.9	35.7	28.1	28	98	57	1,010	1,015	1,013	0.0
15 Feb 24	23.2	36.1	28.9	35	99	67	1,010	1,015	1,012	0.0
16 Feb 24	25.3	35.6	29.3	46	99	79	1,010	1,014	1,012	0.0
17 Feb 24	25.3	35.3	29.3	45	99	77	1,008	1,013	1,011	0.0
18 Feb 24	25.5	34.2	28.9	46	99	78	1,009	1,013	1,011	0.0
19 Feb 24	22.6	35.2	28.3	41	99	77	1,008	1,013	1,011	0.0
20 Feb 24	24.2	35.6	29.3	39	99	76	1,008	1,013	1,010	0.0
21 Feb 24	25.0	34.8	29.2	49	99	78	1,007	1,012	1,010	0.0
22 Feb 24	24.6	34.9	29.2	47	99	78	1,008	1,013	1,010	0.0
23 Feb 24	24.9	35.8	29.5	45	99	78	1,009	1,014	1,011	0.0
24 Feb 24	25.1	35.8	29.5	41	99	77	1,009	1,014	1,011	0.0
25 Feb 24	25.7	36.8	30.1	38	99	72	1,009	1,013	1,011	0.0
26 Feb 24	25.5	35.4	30.0	46	99	73	1,008	1,013	1,011	0.0
27 Feb 24	25.5	35.5	30.1	39	99	71	1,008	1,013	1,010	0.0
28 Feb 24	24.5	35.8	29.7	39	99	72	1,007	1,011	1,009	0.0
29 Feb 24	25.9	36.1	30.0	43	99	73	1,007	1,012	1,010	0.0
Total	20.5	37.0	28.9	22	100	73	1,007	1,020	1,012	0.2
Day	29			29			29			29
Hours	695			695			695			695

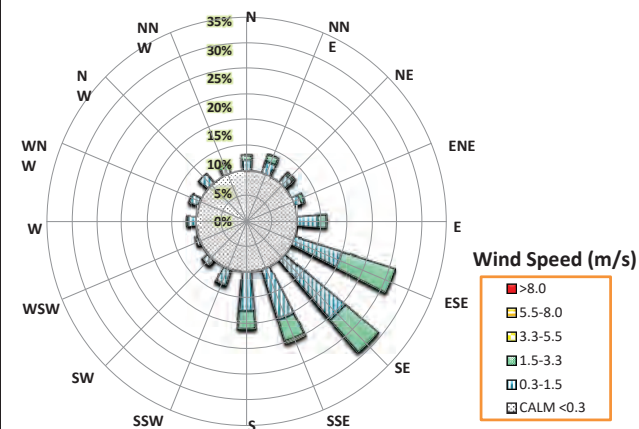
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-29/February/2024

STATION : Ban Klong Klao



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	1.87%	0.86%	0.00%	0.00%	0.00%	2.73%
NNE	2.16%	1.29%	0.00%	0.00%	0.00%	3.45%
NE	1.87%	0.43%	0.00%	0.00%	0.00%	2.30%
ENE	1.15%	0.72%	0.00%	0.00%	0.00%	1.87%
E	3.60%	1.58%	0.00%	0.00%	0.00%	5.18%
ESE	8.63%	9.78%	0.00%	0.00%	0.00%	18.42%
SE	13.67%	7.63%	0.00%	0.00%	0.00%	21.29%
SSE	9.21%	4.03%	0.43%	0.00%	0.00%	13.67%
S	6.76%	3.31%	0.00%	0.00%	0.00%	10.07%
SSW	2.88%	0.14%	0.00%	0.00%	0.00%	3.02%
SW	1.29%	0.00%	0.00%	0.00%	0.00%	1.29%
WSW	0.58%	0.00%	0.00%	0.00%	0.00%	0.58%
W	1.44%	0.29%	0.00%	0.00%	0.00%	1.73%
WNW	1.73%	0.00%	0.00%	0.00%	0.00%	1.73%
NW	2.01%	0.00%	0.00%	0.00%	0.00%	2.01%
NNW	1.87%	0.00%	0.00%	0.00%	0.00%	1.87%
	60.72%	30.07%	0.43%	0.00%	0.00%	91.22%

No. of Monitored Hours	696	Hours	No. of Calm	61	Hours
No. of Monitored Days	29	Days	Calm (%)	8.78%	
Missing Data	1	Hours	Average Wind Speed	1.19	m/s
No. of Valid Data	695	Hours	Maximum Wind Speed	3.40	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction		SE

Equipment Status of Ban Klong Klae Monitoring Station "February 2024"								
No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
3	บ้านคลองนก	SO <sub>2</sub>	Thermo Scientific	43i-BZSCA	1162850017	Normal	20511163	
	(วัดโพธิ์ราษฎร์)	NO <sub>2</sub>	Thermo Scientific	42i-BZMSDCA	1162850015	Normal	20511165	
		O <sub>3</sub>	Thermo Scientific	49i-BZNCA	1162850019	Normal	20511167	
		DUST (TSP)	Thermo Scientific	5014i/5030i	CM16461001	Normal	20511171	
		DUST (PM - 10)	Thermo Scientific	5014i/5030i	CM16471014	Normal	20511169	
		ZERO AIR	Thermo Scientific	1160 BHP2N	1162850021	Normal	20511173	
		CALIBRATOR	Thermo Scientific	146i-BB6BFCA	1162850023	Normal	20511175	
		DATA LOGGER	ADVANTECH	IPC-50	KMA147893A	Normal	60110255.0.1.3.4	
		DATA LOGGER	HP	HP Compaq	SG5026QWW2	Normal	99050095.1	
		Switch Hub 16 port	D-LINK	DES-101160	F3065CA002170	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00087	Normal	-	
		CPU	hp	d530 SFF	SGH4030WY	Normal	-	
		Display LCD 20"	HP	P201	6CM3151954	Normal	60110255.2	
		KeyBoard Wireless	Logitech	K220	13145C105FH8	Normal	-	
		Mouse Wireless	Logitech	M150	-	Normal	-	
		Standard Gas	Airgas	-	LL156448	Normal	-	
		WIND SPEED	LASTEM	DNA 821	20030210	Normal	-	
		WIND DIRECTION	LASTEM			Normal	-	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506488	Normal	-	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506488	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404017	Normal	-	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	-	

สถานีบ้านชาวเหนือ  
(สถานที่ตรวจวัด : บ้านชาวเหนือ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : February

MONITORING STATION : Ban Chao Nua

YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Feb 24	52	44	1	1 - 2	4 - 12	4 - 71
2 Feb 24	43	35	1	1 - 2	3 - 10	5 - 59
3 Feb 24	50	40	1	1 - 3	4 - 9	3 - 77
4 Feb 24	40	33	1	1 - 2	3 - 9	4 - 54
5 Feb 24	51	44	1	1 - 2	4 - 11	4 - 71
6 Feb 24	66	56	2	1 - 3	5 - 12	4 - 90
7 Feb 24	56	46	1	1 - 2	5 - 12	3 - 89
8 Feb 24	47	39	1	1 - 2	4 - 11	3 - 68
9 Feb 24	37	32	1	1 - 2	2 - 8	3 - 44
10 Feb 24	45	34	1	1	2 - 7	7 - 44
11 Feb 24	62	56	2	1 - 3	5 - 16	10 - 88
12 Feb 24	N/A	76	2	1 - 4	7 - 21	14 - 102*
13 Feb 24	N/A	85	2	1 - 5	8 - 17	8 - 137*
14 Feb 24	N/A	86	2	1 - 6	7 - 18	12 - 137*
15 Feb 24	88	72	2	1 - 7	4 - 18	7 - 100
16 Feb 24	50	40	1	1 - 2	3 - 13	5 - 73
17 Feb 24	42	35	1	1 - 2	3 - 11	4 - 58
18 Feb 24	38	32	1	1	2 - 8	7 - 41
19 Feb 24	33	27	1	1	2 - 11	4 - 37
20 Feb 24	28	23	1	1 - 2	2 - 7	3 - 42
21 Feb 24	N/A	N/A	1	1	2 - 7	3 - 37
22 Feb 24	N/A	N/A	1	1	2 - 8	4 - 32
23 Feb 24	N/A	N/A	1	1	2 - 8	6 - 44
24 Feb 24	N/A	N/A	1	1	3 - 8	5 - 48
25 Feb 24	N/A	N/A	1	1 - 2	2 - 10	8 - 54
26 Feb 24	N/A	N/A	1	1 - 2	2 - 9	8 - 68
27 Feb 24	N/A	N/A	1	1 - 2	3 - 11	4 - 76
28 Feb 24	N/A	N/A	1	1 - 2	3 - 11	4 - 56
29 Feb 24	N/A	N/A	1	1 - 2	3 - 9	6 - 54
Range	28 - 88	23 - 86	1 - 2	1 - 7	2 - 21	3 - 137*
Number of times (exceeded standard)	0	0	0	0	0	3
Total	Day	20	20	29	29	29
Monitoring	Hour	406	480	667	667	667
Ambient Air Quality Standard		330	120	120	300	170
					100	

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10  $\mu\text{m}$   
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement

MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : February

MONITORING STATION : Ban Chao Nua

YEAR : 2024

Date	Temperature (°C)			Relative Humidity (%)			Pressure (mb)			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Feb 24	23.1	34.4	27.9	47	100	82	1,009	1,014	1,011	0.0
2 Feb 24	23.8	35.0	28.4	46	100	81	1,008	1,013	1,010	0.0
3 Feb 24	24.0	35.5	28.8	44	100	81	1,008	1,013	1,010	0.0
4 Feb 24	24.9	36.3	29.4	30	100	74	1,008	1,014	1,011	0.0
5 Feb 24	23.2	37.3	29.1	27	100	72	1,008	1,013	1,010	0.0
6 Feb 24	23.0	36.9	28.6	26	100	74	1,008	1,013	1,011	0.0
7 Feb 24	21.7	36.9	28.1	23	100	73	1,007	1,013	1,010	0.0
8 Feb 24	21.8	36.2	28.0	28	100	78	1,006	1,011	1,008	0.0
9 Feb 24	22.8	34.5	28.1	45	100	83	1,008	1,012	1,010	0.0
10 Feb 24	24.8	33.6	28.6	56	100	84	1,011	1,015	1,012	0.0
11 Feb 24	23.1	29.9	26.1	48	100	73	1,013	1,018	1,015	0.0
12 Feb 24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13 Feb 24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14 Feb 24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15 Feb 24	22.2	35.8	28.4	35	100	74	1,009	1,013	1,011	0.0
16 Feb 24	24.7	35.4	29.0	47	100	82	1,008	1,013	1,010	0.0
17 Feb 24	24.9	34.8	29.0	49	100	81	1,007	1,011	1,009	0.0
18 Feb 24	24.7	33.7	28.5	48	99	80	1,007	1,012	1,009	0.0
19 Feb 24	22.2	34.0	28.0	41	100	79	1,007	1,011	1,009	0.0
20 Feb 24	23.9	35.5	29.0	40	100	78	1,006	1,011	1,008	0.0
21 Feb 24	23.9	34.5	28.9	50	100	80	1,006	1,010	1,008	0.0
22 Feb 24	24.6	34.5	29.0	49	100	80	1,007	1,011	1,009	0.0
23 Feb 24	24.9	35.3	29.4	46	100	80	1,007	1,012	1,009	0.0
24 Feb 24	24.7	35.5	29.3	44	99	80	1,008	1,012	1,010	0.0
25 Feb 24	25.1	36.6	29.8	39	99	75	1,007	1,011	1,009	0.0
26 Feb 24	25.4	34.8	29.8	47	99	77	1,007	1,011	1,009	0.0
27 Feb 24	24.8	34.8	29.6	42	100	75	1,007	1,011	1,009	0.0
28 Feb 24	23.9	35.7	29.4	40	100	75	1,005	1,009	1,007	0.0
29 Feb 24	25.4	35.9	29.6	45	99	77	1,006	1,010	1,008	0.0
Total	21.7	37.3	28.8	23	100	78	1,005	1,018	1,010	0.0
Day	26			26			26			26
Hours	624			624			624			624

Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available

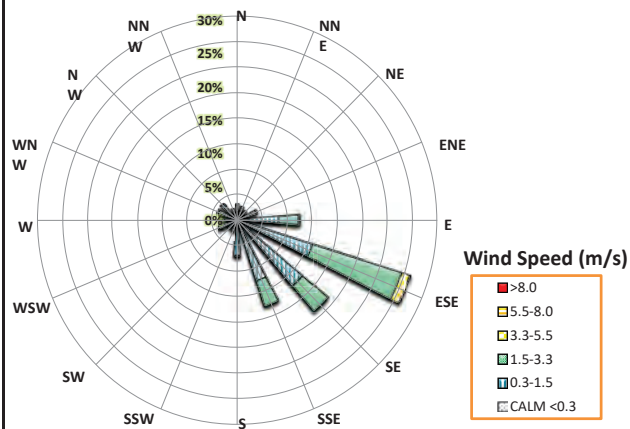


บริษัท ผลิตไฟฟ้าราชบุรี จำกัด

Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-29/February/2024

STATION : Ban Chao Nua



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	1.43%	0.96%	0.00%	0.00%	0.00%	2.39%
NNE	2.07%	0.00%	0.00%	0.00%	0.00%	2.07%
NE	1.75%	0.00%	0.00%	0.00%	0.00%	1.75%
ENE	2.23%	0.96%	0.00%	0.00%	0.00%	3.18%
E	6.21%	3.03%	0.16%	0.00%	0.00%	9.39%
ESE	11.78%	14.01%	1.43%	0.00%	0.00%	27.23%
SE	12.74%	5.10%	0.00%	0.00%	0.00%	17.83%
SSE	9.39%	4.14%	0.00%	0.00%	0.00%	13.54%
S	5.25%	0.16%	0.00%	0.00%	0.00%	5.41%
SSW	1.75%	0.00%	0.00%	0.00%	0.00%	1.75%
SW	1.75%	0.00%	0.00%	0.00%	0.00%	1.75%
WSW	2.87%	0.16%	0.00%	0.00%	0.00%	3.03%
W	2.07%	0.48%	0.00%	0.00%	0.00%	2.55%
WNW	2.87%	0.32%	0.00%	0.00%	0.00%	3.18%
NW	3.03%	0.16%	0.00%	0.00%	0.00%	3.18%
NNW	1.11%	0.64%	0.00%	0.00%	0.00%	1.75%
	68.31%	30.10%	1.59%	0.00%	0.00%	100.00%

No. of Monitored Hours	696	Hours	No. of Calm	0	Hours
No. of Monitored Days	29	Days	Calm (%)	0.00%	
Missing Data	68	Hours	Average Wind Speed	1.26	m/s
No. of Valid Data	628	Hours	Maximum Wind Speed	4.00	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction	ESE	

Equipment Status of Ban Chao Nua Monitoring Station "February 2024"

No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
4	บ้านชาวนาเหือง	SO <sub>2</sub>	Thermo Scientific	43i-BZSAB	1315757997	Normal	20210096	
		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDAA	CM23367032	Normal	20210248	
		O <sub>3</sub>	Thermo Scientific	49i-BZNA8	1315757999	Normal	20210100	
		DUST (TSP)	Thermo Scientific	5014i (in26-004-4)	CM13211006	Normal	20210094	- Pressure flow Alarm และ Proportional valve เสื่อมสภาพ ทำให้ไฟไม่มีข้อมูลตรวจวัดระหว่างวันที่ 12-14, 21-29 Feb 2024
		DUST (PM - 10)	Thermo Scientific	5014i (in26-004-3)	CM13211005	Normal	20210092	- Proportional valve เสื่อมสภาพ ทำให้ไม่มีข้อมูลตรวจวัด ระหว่างวันที่ 21-29 Feb 2024
		ZERO AIR	Thermo Scientific	1160 BHR2C	1315758010	Normal	20210102.1	
		CALIBRATOR	Thermo Scientific	146i-BB3BEAB	1315758001	Normal	20210102.3	
		DATA LOGGER(Envirodata)	ADVANTECH	IPC-510	KMA1478933	Normal	60110252.0000.1.3.4	- Microsoft SQL เดิม ทำให้ Data logger ไม่เก็บข้อมูลดูค่า
		Data LOGGER License	Envitech	Envirodata Ultimate	281230	Normal	-	ระหว่างวันที่ 12-14 Feb 2024
		Switch Hub 16 port	TP-LINK	TL-SF1016	12886701720	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00082	Normal	-	
		Display LCD 20"	HP	P201	6CM31519JB	Normal	60110252.2	
		KeyBoard Wireless	Logitech	K220	1314SC105M68	Normal	-	
		Mouse Wireless	Logitech	M150	1313SCM04H08	Normal	-	
		Standard Gas	Airgas	-	LL121560	Normal	-	
		WIND SPEED	LASTEM	DNA 827	BZ 1506562	Normal	20210013 0013	
		WIND DIRECTION	LASTEM	DNA 827	BZ 1506562	Normal	20210013 0014	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506501	Normal	20210013 0015	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506501	Normal	20210013 0016	
		BAROMETRIC PRESSURE	LASTEM	DQA 208	-	Normal	20210013 0016	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	20210013 0018	

Preventive maintenance schedule,  
Plan and actual

งานบำรุงรักษาสถานีตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง โรงไฟฟ้า บริษัท ราชบุรีเพาเวอร์ ประจำปี 2024

รายละเอียดงาน	มกราคม			กุมภาพันธ์			มีนาคม			เมษายน			พฤษภาคม			มิถุนายน			กรกฎาคม			สิงหาคม			กันยายน			ตุลาคม			พฤศจิกายน			ธันวาคม																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	
	1/01/2564	7/01/2564	14/01/2564	21/01/2564	28/01/2564	4/02/2564	11/02/2564	18/02/2564	25/02/2564	3/03/2564	10/03/2564	17/03/2564	24/03/2564	31/03/2564	7/04/2564	14/04/2564	21/04/2564	28/04/2564	5/05/2564	12/05/2564	19/05/2564	26/05/2564	2/06/2564	9/06/2564	16/06/2564	23/06/2564	30/06/2564	7/07/2564	14/07/2564	21/07/2564	28/07/2564	4/08/2564	11/08/2564	18/08/2564	25/08/2564	1/09/2564	8/09/2564	15/09/2564	22/09/2564	29/09/2564	6/10/2564	13/10/2564	20/10/2564	27/10/2564	3/11/2564	10/11/2564	17/11/2564	24/11/2564	1/12/2564	8/12/2564	15/12/2564	22/12/2564	29/12/2564
1. งานปฎิบัติตามคู่มือเครื่องตรวจวัด	✓																																																				
- Single Point		✓																																																			
- Multi Point																																																					
2. งานตรวจสอบและทำความสะอาดถังเก็บน้ำทิ้ง																																																					
เครื่องตรวจวัดก๊าซ ก๊าซ SO <sub>2</sub> , NO <sub>x</sub> และ O <sub>2</sub>																																																					
3. งานปฎิบัติตามคู่มือเครื่อง Multi Gas																																																					
Calibrator																																																					
- อัตราการไหลของอากาศ																																																					
4. งานตรวจสอบเครื่องตรวจวัดชุดข้อมูลวิทยา																																																					
5. งานปฎิบัติตามคู่มือเครื่องตรวจวัด																																																					
ฝุ่น TSP และ PM10																																																					
- อัตราการไหลของอากาศ																																																					
6. งานตรวจสอบและทำความสะอาดถังเก็บน้ำ																																																					
อากาศเครื่องตรวจวัดฝุ่น TSP, PM10																																																					
7. งานนำอุปกรณ์มาใช้ในและภายนอกสถานี																																																					

✓

Plan

Actual

## Corrective maintenance work list

### Corrective maintenance work list

Project : Ratchaburi Power Co.,Ltd.

Page 1 of 1

Site No.: 5

Station : Donsai Sub-district

Month - Year :     ก.พ.-2024

[illegible]

Engineer: Mr. Pongviriya Chaowalit

Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Remark :

# Weekly report

[illegible]

[illegible][illegible]



List Code for Spare Part & Consumable Part AAQM-RPCL (February 2024)

No.	Description	Use for Analyzer	S/N	Unit	Balan nce	Jan 24	Balan nce	Feb 24	Balan nce
1	1405DF Consumables PKG	PM-10/2.5 TEOM	59-010993	set	1	0	1	0	1
2	Pump Re-build kit	PM-10/2.5 TEOM	111754-00	set	2	0	2	0	2
3	Filter box of 20 TX40 TEOM	PM-10/2.5 TEOM	57007225-0020	ea	28	1	27	1	26
4	Silica Gel *(ဂျဲလ်)(ခဲလ်)	NO <sub>2</sub>	-	can	2	0	2	0	2
5	Pump Re-build kit 42IQ	NO <sub>3</sub>	117901-00	set	3	1	2	0	2
6	Sinter Filter(ECCH 01004701)	SO <sub>2</sub>	E0980001811	set	1	0	1	0	1
7	Rebuild Kit, External Pump Model:617CD22-194 C	SO <sub>2</sub> O <sub>3</sub>	SK61722	set	6	2	4	0	4
8	Filter Element, 5 Micron, Consumable (1pk = 50 ea.) 47mm.	SO <sub>2</sub> NO <sub>2</sub> O <sub>3</sub>	F010006-01	ea	67	3	64	3	61
9	Glass Fiber Filter Media 8" x 10" (100Sheet/Box)(Brand:Whatman)	TSP High-Volume	EPM2000(GNFG858X10-T)	SHEET	270	5	265	5	260
10	Silica/Quartz Micro Filter Filter Media 8" x 10" (50Sheet/Box)(Brand:Whatman)PM-10	PM-10 High-Volume	QMA(EOHVQMASX10-T)	SHEET	322	5	317	5	312

Calibration result



## Calibration Sheet

Project : Ratchaburi Power Plant

Page 01

Site No. : 5      Station : Donsai      Date : 7 Feb 24      Start Time : 13.00

Analyzer	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>	Standard Gas	SO <sub>2</sub>	NO <sub>x</sub>	Remark
Manufacture	ECOTECH	Thermo	ECOTECH	Cylinder No.	D 636099		
Model	EC 9850B	42IQ-BBANN	EC 9810 B	Concentration	50.10	51.90	
Serial No.	05-1274	1181510016	06-0001	Multi Gas Calibrator			
Range	0 - 500 ppb	0 - 500 ppb	0 - 500 ppb	Model : Sabio(4010)	Serial No. : -		

Phase	Set Point	Desire Value			Monitor Value			Drift			% Drift			Factor
SO <sub>2</sub> Before Calibrate	Zero	0.0			2.0			-2.0			-0.4			Gain : 20.33
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			433.0			17.0			3.8			
SO <sub>2</sub> After Calibrate	Zero	0.0			2.0			-2.0			-0.4			Gain : 20.49
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			450.0			0.0			0.0			
		NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	
NO <sub>x</sub> Before Calibrate	Zero	0.0	0.0	0.0	6.7	-0.5	6.3	-6.7	0.5	-6.3	-1.3	0.1	-1.3	NO COEF : 1.077 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 1.002
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	150.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	468.0	2.0	470.0	-18.0	-2.0	-20.0	-4.0	-0.4	-4.4	
NO <sub>x</sub> After Calibrate	Zero	0.0	0.0	0.0	2.9	0.0	2.9	-2.9	0.0	-2.9	-0.6	0.0	-0.6	NO COEF : 1.027 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 1.002
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	150.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	449.0	2.0	451.0	1.0	-2.0	-1.0	0.2	-0.4	-0.2	
O <sub>3</sub> Before Calibrate	Zero	0.0			0.0			0.0			0.0			Gain : 0.984
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			448.0			2.0			0.4			
O <sub>3</sub> After Calibrate	Zero	0.0			1.0			-1.0			-0.2			Gain : 0.971
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			450.0			0.0			0.0			
	Zero Drift = Desire Value - Monitor Valve % Zero Drift = (Zero Drift/Full Scale) * 100 % Zero Drift +/- 3% Accept Data							Span Drift = Desire Valve - Monitor Value % Span Drift = (Span Drift/Desire Value) * 100 % Span Drift +/- 5% Accept Data						

Calibrate by : Pongviriya

Finish Time : 14.00

Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Comment : \_\_\_\_\_

## Calibration Sheet

Project : Ratchaburi Power Plant

Page 02

Site No. : 5      Station : Donsai      Date : 20 Feb 24      Start Time : 11.00

Analyzer	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>	Standard Gas	SO <sub>2</sub>	NO <sub>x</sub>	Remark
Manufacture	ECOTECH	Thermo	ECOTECH	Cylinder No.	D 636099		
Model	EC 9850B	42IQ-BBANN	EC 9810 B	Concentration	50.10	51.90	
Serial No.	05-1274	1181510016	06-0001	Multi Gas Calibrator			
Range	0 - 500 ppb	0 - 500 ppb	0 - 500 ppb	Model : Sabio(4010)	Serial No. : -		

Phase	Set Point	Desire Value			Monitor Value			Drift			% Drift			Factor
SO <sub>2</sub> Before Calibrate	Zero	0.0			3.0			-3.0			-0.6			Gain : 20.49
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			455.0			-5.0			-1.1			
SO <sub>2</sub> After Calibrate	Zero	0.0			3.0			-3.0			-0.6			Gain : 20.12
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			450.0			0.0			0.0			
		NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	
NO <sub>x</sub> Before Calibrate	Zero	0.0	0.0	0.0	-0.6	-0.8	-1.4	0.6	0.8	1.4	0.1	0.2	0.3	NO COEF : 1.027 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 1.002
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	151.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	423.0	7.0	431.0	27.0	-7.0	19.0	6.0	-1.6	4.2	
NO <sub>x</sub> After Calibrate	Zero	0.0	0.0	0.0	1.7	0.2	1.9	-1.7	-0.2	-1.9	-0.3	0.0	-0.4	NO COEF : 1.084 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 0.992
	Span(Lo.)	80.0	1.0	81.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	1.0	151.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	448.0	2.0	450.0	2.0	-2.0	0.0	0.4	-0.4	0.0	
O <sub>3</sub> Before Calibrate	Zero	0.0			-1.0			1.0			0.2			Gain : 0.971
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			452.0			-2.0			-0.4			
O <sub>3</sub> After Calibrate	Zero	0.0			-			-			-			Gain : -
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			-			-			-			
Zero Drift = Desire Value - Monitor Valve % Zero Drift = (Zero Drift/Full Scale) * 100 % Zero Drift +/- 3% Accept Data		Span Drift = Desire Value - Monitor Value % Span Drift = (Span Drift/Desire Value) * 100 % Span Drift +/- 5% Accept Data												

Calibrate by : Pongviriya

Finish Time : 12.00

Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Comment : \_\_\_\_\_



รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาเวอร์ จำกัด

ประจำเดือนมีนาคม 2567

เสนอต่อ

บริษัท ราชบุรีเพาเวอร์ จำกัด

โดย

ฝ่ายสิ่งแวดล้อมโครงการ

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาเวอร์ จำกัด  
ประจำเดือนมีนาคม 2567

รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาเวอร์ จำกัด  
เดือนมีนาคม 2567

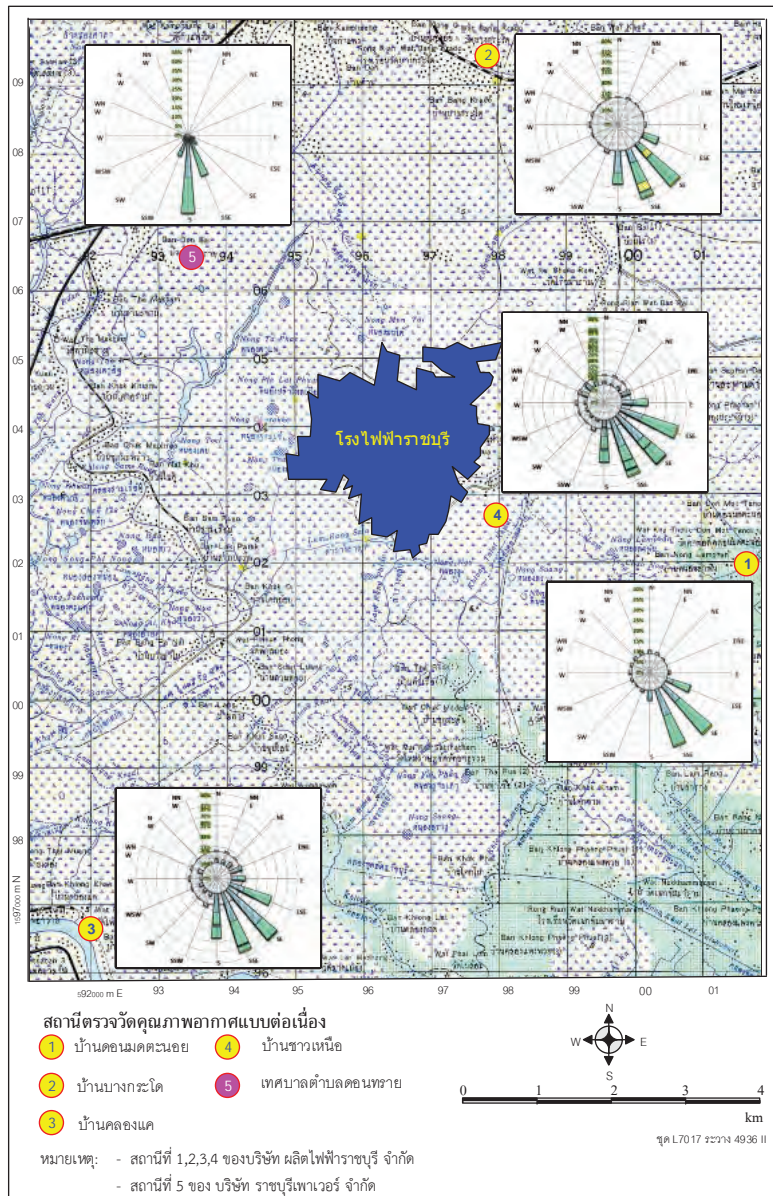
ผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง บริษัท ราชบุรีเพาเวอร์ จำกัด ประจำเดือนมีนาคม 2567 จากสถานีตรวจวัดคุณภาพอากาศเทศบาลตำบลดอนทราย ผลการตรวจวัดดัชนีคุณภาพอากาศ พบว่า ผู้ละอองรวม ผู้ละอองขนาดไม่เกิน 10 ไมครอน ก๊าซซัลเฟอร์ไดออกไซด์ ก๊าซไนโตรเจนไดออกไซด์ และก๊าซโอโซน มีค่าอยู่ในเกณฑ์มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไปตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ยกเว้นค่าผู้ละอองขนาดไม่เกิน 2.5 ไมครอน ที่พบว่ามีค่าเกินเกณฑ์มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป โดยมีเกินค่ามาตรฐานฯ เป็นครั้งคราวดังนี้

- ผู้ละอองขนาดไม่เกิน 2.5 ไมครอน ในวันที่ 7, 17, 21, 22 มีนาคม 2567 มีค่า 37.6, 51.0, 56.7, 44.6  $\mu\text{g}/\text{m}^3$  ตามลำดับ

สรุปผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง (มีนาคม 2567)

สถานีตรวจวัด	ค่าเฉลี่ยในเวลา 24 ชั่วโมง				ค่าเฉลี่ยในเวลา 1 ชั่วโมง		
	( $\mu\text{g}/\text{m}^3$ )			(ppb)	(ppb)		
	TSP	PM-10	PM-2.5	SO <sub>2</sub>	SO <sub>2</sub>	NO <sub>2</sub>	O <sub>3</sub>
เทศบาลตำบลดอนทราย	33 - 91	28 - 77	15.8 - 56.7*	1 - 3	0 - 5	0 - 27	1 - 83
มาตรฐาน	330	120	37.5	120	300	170	100

หมายเหตุ : มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป ตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 21 (พ.ศ. 2544) ฉบับที่ 24 (พ.ศ. 2547) ฉบับที่ 28 (พ.ศ. 2550) ฉบับที่ 33 (พ.ศ. 2552), ราชกิจจานุเบกษา เล่ม 139 ตอนพิเศษ 163ง (พ.ศ. 2565)



แผนที่แสดงตำแหน่งที่ตั้งสถานีตรวจวัดคุณภาพอากาศแบบต่อเนื่อง ของ บริษัท ผลิตไฟฟ้าราชบุรี จำกัด และ บริษัท ราชบุรีเพาเวอร์ จำกัด

สถานีเทศบาลตำบลดอนทราย



## MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : March

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date						
	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)		O <sub>3</sub> (ppb)	O <sub>2</sub> (%)
	24-Hr. Avg.	1-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Mar 24	3	2 - 4	2	1 - 3	5 - 49	N/A
2 Mar 24	2	1 - 3	1	0 - 3	7 - 42	N/A
3 Mar 24	3	3 - 4	1	0 - 2	5 - 43	N/A
4 Mar 24	N/A	N/A	N/A	N/A	N/A	N/A
5 Mar 24	3	3 - 3	2	1 - 4	10 - 47	N/A
6 Mar 24	3	2 - 5	4	0 - 16	2 - 83	N/A
7 Mar 24	2	1 - 3	4	1 - 10	2 - 77	N/A
8 Mar 24	3	2 - 4	2	0 - 5	3 - 28	N/A
9 Mar 24	3	2 - 3	1	0 - 2	9 - 34	N/A
10 Mar 24	3	2 - 4	1	0 - 3	5 - 32	N/A
11 Mar 24	3	2 - 4	1	0 - 8	10 - 34	N/A
12 Mar 24	3	2 - 4	2	0 - 4	1 - 38	N/A
13 Mar 24	2	1 - 3	3	1 - 7	N/A	N/A
14 Mar 24	1	0 - 3	3	1 - 7	N/A	N/A
15 Mar 24	3	1 - 5	5	0 - 16	N/A	N/A
16 Mar 24	1	1 - 2	2	1 - 4	N/A	N/A
17 Mar 24	2	1 - 2	2	1 - 3	N/A	N/A
18 Mar 24	1	1 - 2	3	1 - 7	5 - 67	N/A
19 Mar 24	2	1 - 3	2	0 - 5	7 - 36	N/A
20 Mar 24	2	1 - 3	8	1 - 18	5 - 67	N/A
21 Mar 24	2	1 - 5	11	4 - 27	1 - 59	N/A
22 Mar 24	1	0 - 4	9	1 - 21	5 - 61	N/A
23 Mar 24	1	0 - 2	3	0 - 11	12 - 62	N/A
24 Mar 24	1	1 - 2	4	2 - 8	18 - 81	N/A
25 Mar 24	2	1 - 2	3	1 - 4	22 - 77	N/A
26 Mar 24	3	2 - 3	2	1 - 4	15 - 48	N/A
27 Mar 24	1	1 - 3	4	2 - 8	4 - 32	N/A
28 Mar 24	1	1 - 2	4	1 - 11	2 - 51	N/A
29 Mar 24	1	1	2	1 - 5	29 - 62	N/A
30 Mar 24	1	1 - 2	2	1 - 5	9 - 51	N/A
31 Mar 24	1	0 - 1	3	1 - 8	8 - 69	N/A
Range	1 - 3	0 - 5	1 - 11	0 - 27	1 - 83	-
Number of times (exceeded standard)	0	0	0	0	0	-
Total	Day	30	30	30	25	-
Monitoring	Hour	699	699	699	562	-
Ambient Air Quality Standard		120	300	-	170	100

Remark :-

1) Standards	= Ambient Air Quality Standards of the National Environment Board
2) SO <sub>2</sub>	= Sulfur Dioxide
3) NO <sub>2</sub>	= Nitrogen Dioxide
4) O <sub>3</sub>	= Ozone
5) N/A	= Data not Available
6) *	= Exceeding air quality standard
7) -	= Not Measurement



## MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

MONTH : March

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date	Concentration (24-Hr Avg)				
	TSP (µg/m <sup>3</sup> )		PM-10 (µg/m <sup>3</sup> )		PM-2.5 (µg/m <sup>3</sup> )
	Micro balance	Hi volume	Micro balance	Hi volume	Micro balance
1 Mar 24	54		40		25.2
2 Mar 24	56		43		26.5
3 Mar 24	54		44		27.9
4 Mar 24	N/A		N/A		N/A
5 Mar 24	N/A	54	N/A	31	N/A
6 Mar 24	64		47		30.5
7 Mar 24	68		55		37.6*
8 Mar 24	53		41		24.9
9 Mar 24	35		28		15.8
10 Mar 24	40		31		17.5
11 Mar 24	59	60	48	35	31.8
12 Mar 24	56		48		31.1
13 Mar 24	55		45		29.6
14 Mar 24	52		39		23.4
15 Mar 24	63		50		31.7
16 Mar 24	42		37		21.7
17 Mar 24	47	48	38	30	51.0*
18 Mar 24	54		42		25.9
19 Mar 24	65		49		31.3
20 Mar 24	49		44		30.8
21 Mar 24	91		77		56.7*
22 Mar 24	80		63		44.6*
23 Mar 24	44	49	36	26	22.0
24 Mar 24	38		37		22.8
25 Mar 24	37		35		21.5
26 Mar 24	37		30		17.2
27 Mar 24	44		36		20.5
28 Mar 24	42		35		20.9
29 Mar 24	41	51	36	27	20.5
30 Mar 24	33		31		18.0
31 Mar 24	36		31		18.1
Range	33 - 91	48 - 60	28 - 77	26 - 35	15.8 - 56.7*
Number of times (exceeded standard)	0	0	0	0	4
Total	Day	29	29	5	29
Monitoring	Hour	684	120	692	692
Ambient Air Quality Standard	330	330	120	120	37.5

Remark :-

1) Standards	= Ambient Air Quality Standards of the National Environment Board
2) TSP	= Total Suspended Particulate
3) PM-10	= Particulate Matter less than 10 µm
4) PM-2.5	= Particulate Matter with diameter of less than 2.5 micron



## MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : March

MONITORING STATION : Donsai Sub-district

YEAR : 2024

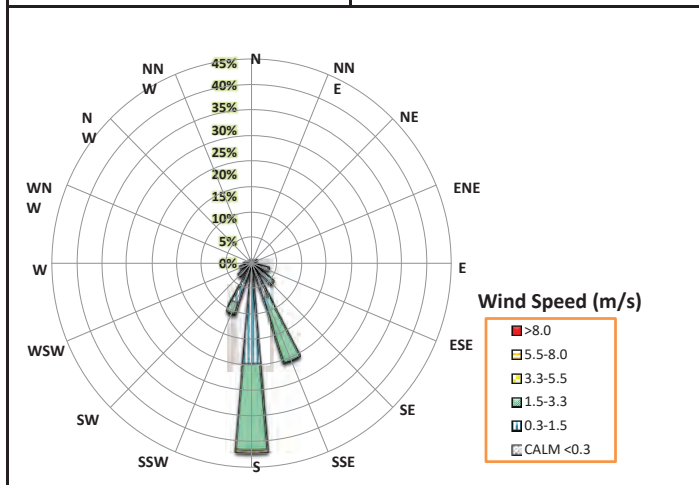
Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Mar 24	26.4	38.6	31.4	47	95	74	1,002	1,009	1,005	0.0
2 Mar 24	26.9	38.7	31.5	50	94	76	1,002	1,009	1,005	0.0
3 Mar 24	27.0	39.0	32.4	50	93	72	1,002	1,009	1,006	0.0
4 Mar 24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 Mar 24	28.2	41.6	33.2	25	90	68	1,002	1,002	1,002	0.0
6 Mar 24	24.0	39.2	31.0	37	97	74	1,001	1,005	1,003	0.0
7 Mar 24	24.3	38.8	30.6	44	99	76	1,001	1,004	1,003	0.0
8 Mar 24	25.4	37.2	30.7	59	96	80	1,002	1,006	1,004	0.0
9 Mar 24	28.4	37.8	31.2	52	90	76	1,002	1,008	1,004	0.0
10 Mar 24	27.4	38.8	31.9	49	91	75	1,004	1,011	1,007	0.0
11 Mar 24	27.2	39.4	32.0	50	93	76	1,004	1,012	1,008	0.0
12 Mar 24	27.2	38.6	31.5	53	94	78	1,004	1,011	1,007	5.8
13 Mar 24	26.4	38.9	31.6	39	96	71	1,003	1,011	1,006	0.0
14 Mar 24	25.9	40.6	32.0	36	96	70	1,001	1,010	1,006	0.0
15 Mar 24	25.4	38.9	31.6	41	95	71	1,002	1,009	1,005	0.0
16 Mar 24	27.7	33.1	30.2	67	93	81	1,004	1,012	1,007	0.0
17 Mar 24	25.9	39.1	31.3	45	96	73	1,003	1,011	1,006	0.0
18 Mar 24	24.6	39.7	31.1	45	98	76	1,002	1,009	1,004	0.0
19 Mar 24	26.4	38.3	31.6	52	94	76	1,002	1,009	1,005	0.0
20 Mar 24	25.1	30.3	27.1	80	98	89	1,007	1,014	1,010	3.2
21 Mar 24	25.2	34.9	28.9	53	95	77	1,003	1,012	1,007	0.0
22 Mar 24	25.0	38.7	30.8	46	94	75	1,002	1,006	1,004	0.0
23 Mar 24	26.0	39.3	31.6	46	97	75	1,001	1,006	1,003	0.0
24 Mar 24	26.8	39.6	32.3	42	94	72	1,002	1,009	1,004	0.0
25 Mar 24	27.0	38.5	32.0	54	95	76	1,001	1,008	1,004	0.0
26 Mar 24	28.1	37.9	31.9	51	93	76	1,003	1,010	1,006	0.0
27 Mar 24	27.4	38.6	31.7	50	94	77	1,005	1,013	1,009	0.0
28 Mar 24	26.4	38.3	31.7	50	90	75	1,002	1,009	1,005	0.0
29 Mar 24	26.8	39.1	32.3	49	95	75	1,002	1,008	1,005	0.0
30 Mar 24	27.0	40.0	32.8	46	95	73	1,003	1,011	1,007	0.0
31 Mar 24	27.2	39.9	33.1	43	93	70	1,002	1,010	1,006	0.0
Total	24.0	41.6	31.4	25	99	75	1,001	1,014	1,005	9.0
Day	30			30			30			30
Hours	702			702			625			701

Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



Date/Month/Year : 1-31/March/2024

STATION : Donsai Sub-district



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NNE	0.14%	0.00%	0.00%	0.00%	0.00%	0.14%
NE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ENE	0.43%	0.71%	0.00%	0.00%	0.00%	1.14%
E	0.28%	0.28%	0.00%	0.00%	0.00%	0.57%
ESE	1.57%	2.42%	0.00%	0.00%	0.00%	3.99%
SE	3.13%	3.28%	0.00%	0.00%	0.00%	6.41%
SSE	8.26%	15.24%	0.00%	0.00%	0.00%	23.50%
S	22.79%	19.23%	0.57%	0.00%	0.00%	42.59%
SSW	9.40%	2.71%	0.00%	0.00%	0.00%	12.11%
SW	3.70%	0.14%	0.00%	0.00%	0.00%	3.85%
WSW	2.71%	0.00%	0.00%	0.00%	0.00%	2.71%
W	1.57%	0.14%	0.00%	0.00%	0.00%	1.71%
WNW	0.85%	0.00%	0.00%	0.00%	0.00%	0.85%
NW	0.43%	0.00%	0.00%	0.00%	0.00%	0.43%
NNW	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	55.27%	44.16%	0.57%	0.00%	0.00%	100.00%

No. of Monitored Hours	744	Hours	No. of Calm	0	Hours
No. of Monitored Days	31	Days	Calm (%)	0.00%	
Missing Data	42	Hours	Average Wind Speed	1.35	m/s
No. of Valid Data	702	Hours	Maximum Wind Speed	3.80	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction	S	

Equipment Status of Donsai Sub-district Monitoring Station "March 2024"							
No.	Site	Analyzer	Brand	Model	S/N	Status	Description
5	ดอนทราย	SO <sub>2</sub>	Ecotech	EC98508	05-1274	Normal	
		O <sub>3</sub>	Ecotech	EC98108	06-0001	Normal	- ระบบไฟฟ้าขัดข้อง ทำให้ไม่มีข้อมูลตรวจวัดในวันที่ 4 Mar 2024
							และ Zero Flow Alarm ทำให้ไม่มีข้อมูลตรวจวัดระหว่าง
							วันที่ 13-17 Mar 2024
		NO <sub>2</sub>	Thermo	42iQ	-	Normal	
		DUST (PM - 10/2.5)	Thermo	1405DF	1405A248712190	Normal	- ระบบไฟฟ้าขัดข้อง ทำให้ไม่มีข้อมูลตรวจวัด
		DUST (TSP)	Thermo	1405	1405A250862311	Normal	ระหว่างวันที่ 4-5 Mar 2024
		O <sub>2</sub>	Riken keiki	OX-600		Fail	Board Fail ไม่สามารถซ่อมได้ อยู่ระหว่างจัดซื้อเครื่องใหม่ทดแทน
		Hivolume air sampler(PM-10)	Ecotech	HVS3000	05-1104	Normal	
		Hivolume air sampler(TSP)	Ecotech	HVS3000	05-1103	Normal	
		WIND SPEED	Met One	010C	E7612	Normal	
		WIND DIRECTION	Met One	020C	F1128	Normal	- ระบบไฟฟ้าขัดข้อง ทำให้ไม่มีข้อมูลตรวจวัดทั้งสถานีในวันที่ 4 Mar 2024
		AT/RH	Met One	083D-1-35	F1320	Normal	
		BAROMATIC PRESSURE	Met One	090D	F1231	Normal	
		Raingauge	Met One	-	-	Normal	
		Multi Translator	Met One	2270	F1284	Normal	
		Data Logger	ADVANTECH	IPC-510		Normal	
		Multi Gas Calibration	SABIO	4010	10260306	Normal	
		Zero Air Generator	SABIO	1001	030614768	Normal	
		Modem	Tornado	FMV56.0E	4088712	Normal	
		Air Condition 1	Daikin	AR18DV2S	E003687	Normal	
		Air Condition 2	Daikin	AR18DV2S	E002831	Normal	

ภาคผนวก

สถานีบ้านดอนมดตะนอย  
(สถานที่ตรวจวัด : วัดนักบุญอันโตนิโอ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : March

MONITORING STATION : Ban Don Mod Tanol

YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Mar 24	54	N/A	1	1	1 - 8	6 - 54
2 Mar 24	45	N/A	1	1	1 - 6	3 - 49
3 Mar 24	47	N/A	1	1	1 - 7	5 - 51
4 Mar 24	45	N/A	1	1	1 - 7	5 - 58
5 Mar 24	47	N/A	1	1 - 2	1 - 6	1 - 62
6 Mar 24	48	N/A	1	1 - 2	1 - 8	0 - 72
7 Mar 24	55	N/A	1	1 - 2	1 - 7	0 - 81
8 Mar 24	49	N/A	1	1 - 2	1 - 7	1 - 38
9 Mar 24	29	N/A	1	1	0 - 2	16 - 41
10 Mar 24	40	N/A	1	1	0 - 7	5 - 36
11 Mar 24	62	N/A	1	1	0 - 4	14 - 45
12 Mar 24	56	N/A	1	1 - 2	2 - 7	9 - 49
13 Mar 24	41	N/A	2	1 - 2	2 - 10	3 - 67
14 Mar 24	38	N/A	2	1 - 2	3 - 8	3 - 70
15 Mar 24	62	N/A	2	1 - 4	2 - 9	1 - 72
16 Mar 24	37	N/A	1	1 - 2	2 - 9	4 - 32
17 Mar 24	43	N/A	1	1 - 2	3 - 8	7 - 47
18 Mar 24	37	N/A	1	1 - 2	3 - 8	2 - 50
19 Mar 24	55	N/A	1	1 - 2	2 - 8	5 - 54
20 Mar 24	42	N/A	1	1 - 2	3 - 13	6 - 58
21 Mar 24	49	N/A	2	1 - 3	4 - 30	3 - 92
22 Mar 24	57	N/A	1	1 - 2	1 - 15	1 - 92
23 Mar 24	35	N/A	1	1 - 2	2 - 8	9 - 67
24 Mar 24	41	N/A	1	1 - 2	2 - 7	10 - 66
25 Mar 24	33	N/A	1	1 - 2	2 - 8	3 - 41
26 Mar 24	34	N/A	1	1	2 - 6	9 - 38
27 Mar 24	32	N/A	1	1 - 2	2 - 7	1 - 58
28 Mar 24	36	N/A	1	1 - 2	3 - 9	3 - 54
29 Mar 24	42	N/A	1	1 - 2	2 - 8	2 - 47
30 Mar 24	30	N/A	1	1 - 2	2 - 7	1 - 44
31 Mar 24	30	N/A	2	1 - 4	2 - 7	2 - 52
Range	29 - 62	-	1 - 2	1 - 4	0 - 30	0 - 92
Number of times (exceeded standard)	0	-	0	0	0	0
Total Day	31	-	31	31	31	31
Monitoring Hour	743	-	712	712	709	712
Ambient Air Quality Standard	330	-	120	300	170	100

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10  $\mu\text{m}$   
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement





บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

## MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : March

MONITORING STATION : Ban Don Mod Tanoi

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge Sum. (mm)
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	
1 Mar 24	25.8	37.1	30.2	37	99	74	1,009	1,014	1,011	0.0
2 Mar 24	26.1	36.8	30.2	41	99	76	1,009	1,014	1,011	0.0
3 Mar 24	25.9	37.2	30.4	41	99	75	1,008	1,014	1,011	0.0
4 Mar 24	25.8	37.8	30.5	35	99	76	1,007	1,013	1,010	0.0
5 Mar 24	25.4	38.7	30.8	21	99	72	1,007	1,012	1,009	0.0
6 Mar 24	23.8	37.5	29.9	28	99	75	1,006	1,011	1,008	0.0
7 Mar 24	24.1	37.5	29.6	37	99	75	1,006	1,010	1,008	0.2
8 Mar 24	24.6	35.6	29.6	51	99	81	1,007	1,011	1,009	0.0
9 Mar 24	27.5	36.1	30.0	42	99	79	1,009	1,013	1,011	0.0
10 Mar 24	26.3	36.7	30.6	40	99	77	1,010	1,015	1,012	0.0
11 Mar 24	26.3	37.4	30.8	41	99	78	1,010	1,015	1,013	0.0
12 Mar 24	26.3	36.8	30.2	44	99	79	1,010	1,015	1,012	0.0
13 Mar 24	26.0	37.7	30.3	30	99	72	1,009	1,014	1,012	0.0
14 Mar 24	25.2	38.8	30.7	26	99	70	1,008	1,014	1,011	0.0
15 Mar 24	24.8	37.5	30.4	29	99	73	1,009	1,013	1,011	0.0
16 Mar 24	26.9	31.2	28.9	64	99	87	1,010	1,015	1,012	0.0
17 Mar 24	25.0	37.5	30.0	34	99	73	1,009	1,015	1,012	0.0
18 Mar 24	23.7	38.1	29.8	36	99	77	1,008	1,013	1,011	0.0
19 Mar 24	25.6	36.8	30.0	43	99	78	1,009	1,013	1,011	0.0
20 Mar 24	23.6	28.9	26.0	80	99	97	1,012	1,017	1,015	10.0
21 Mar 24	23.2	33.4	27.4	43	99	80	1,009	1,016	1,013	0.0
22 Mar 24	23.7	36.9	29.5	38	99	77	1,006	1,011	1,009	0.0
23 Mar 24	25.2	37.3	30.4	38	99	75	1,007	1,011	1,009	0.0
24 Mar 24	26.4	37.6	31.0	34	99	73	1,009	1,013	1,011	0.0
25 Mar 24	26.1	37.1	30.9	45	99	76	1,008	1,013	1,010	0.0
26 Mar 24	27.4	35.9	30.7	44	99	76	1,009	1,014	1,012	0.0
27 Mar 24	26.5	37.0	30.5	41	99	78	1,011	1,016	1,013	0.0
28 Mar 24	25.7	37.3	30.4	40	99	78	1,009	1,013	1,011	0.0
29 Mar 24	26.2	37.2	30.9	42	99	76	1,009	1,013	1,011	0.0
30 Mar 24	26.3	38.3	31.5	37	99	72	1,010	1,015	1,012	0.0
31 Mar 24	26.2	37.7	31.7	41	99	69	1,009	1,014	1,011	0.0
Total	23.2	38.8	30.1	21	99	77	1,006	1,017	1,011	10.2
Day	31			31			31			31
Hours	743			743			743			743

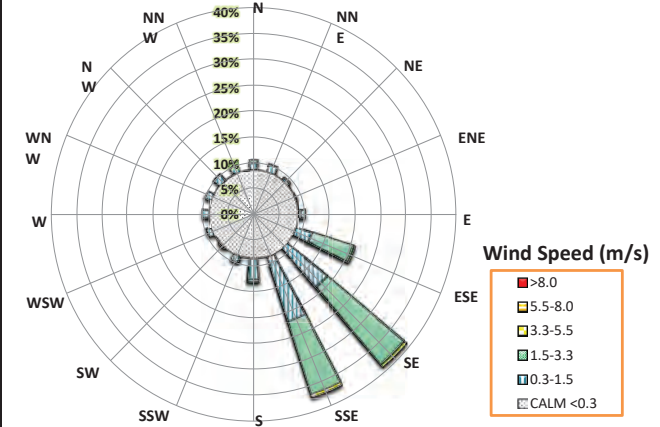
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-31/March/2024

STATION : Ban Don Mod Tanoi



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	1.34%	0.54%	0.00%	0.00%	0.13%	2.02%
NNE	1.48%	0.13%	0.00%	0.00%	0.00%	1.61%
NE	0.54%	0.13%	0.00%	0.00%	0.00%	0.67%
ENE	0.13%	0.00%	0.00%	0.00%	0.00%	0.13%
E	0.54%	0.81%	0.00%	0.00%	0.00%	1.34%
ESE	3.36%	8.47%	0.40%	0.00%	0.00%	12.23%
SE	10.22%	19.76%	0.67%	0.00%	0.00%	30.65%
SSE	13.44%	15.05%	0.67%	0.00%	0.00%	29.17%
S	4.03%	0.67%	0.00%	0.00%	0.00%	4.70%
SSW	1.21%	0.00%	0.00%	0.00%	0.00%	1.21%
SW	0.27%	0.00%	0.00%	0.00%	0.00%	0.27%
WSW	0.94%	0.00%	0.00%	0.00%	0.00%	0.94%
W	1.34%	0.00%	0.00%	0.00%	0.00%	1.34%
WNW	1.21%	0.00%	0.00%	0.00%	0.00%	1.21%
NW	1.48%	0.00%	0.00%	0.00%	0.00%	1.48%
NNW	1.34%	0.94%	0.00%	0.00%	0.00%	2.28%
	42.88%	46.51%	1.75%	0.00%	0.13%	91.26%

No. of Monitored Hours	744	Hours	No. of Calm	65	Hours
No. of Monitored Days	31	Days	Calm (%)	8.74%	
Missing Data	0	Hours	Average Wind Speed	1.54	m/s
No. of Valid Data	744	Hours	Maximum Wind Speed	4.20	m/s
Prevailing Wind Direction				SE	



Equipment Status of Ban Don Mod Tanoi Monitoring Station "March 2024"								
No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No.	Description
1	บ้านดอนมดตะนอย	SO <sub>2</sub>	Thermo Scientific	43i-BZSCA	1162850018	Normal	20511164	
	(วัดน้ำบุญญา)	NO <sub>2</sub>	Thermo Scientific	42i-BZMSDCA	1162850016	Normal	20511166	
		O <sub>3</sub>	Thermo Scientific	49i-B2NCA	1162850020	Normal	20511168	
		DUST (TSP)	Thermo Scientific	5014i/5030i	CM16461002	Normal	20511172	
		DUST (PM - 10)	Thermo Scientific	5014i/5030i	CM16471015	Fail	20511170	-Foil ซาด อยู่ระหว่างส่งตรวจเช็คกับ บ. PICO ทำได้
								ไม่มีข้อมูลตรวจวัดระหว่างวันที่ 1-31 March 2024
		ZERO AIR	Thermo Scientific	1160 BHP2N	1162850022	Normal	20511174	
		CALIBRATOR	Thermo Scientific	146i-BB6BFCA	1162850024	Normal	20511176	
		DATA LOGGER	ADVANTECH	IPC-50	KMA1478934	Normal	60110253.1.3.4	
		Switch Hub 16 port	TP-LINK	TL-SF1016	12B86700507	Normal	-	
		UPS	Power Matic	TR-3000	13KEI00080	Normal	-	
		Display LCD 20"	hp	P201	6CM3151950	Normal	60110253.2	
		Keyboard	Logitech	K220	13145C105F28	Normal	-	
		Mouse	Logitech	M150	-	Normal	-	
		Standard Gas	Airgas	-	LL111365	Normal	-	
		WIND SPEED	LASTEM	DNA-827	-	Normal	-	
		WIND DIRECTION	LASTEM					
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506500	Normal	-	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506500	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404016	Normal	-	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	-	

สถานีบ้านบางกะโด  
(สถานที่ตรวจวัด : วัดบางกะโด)

MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : March

MONITORING STATION : Wat Bang Gado

YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Mar 24	53	33	1	1 - 2	2 - 7	9 - 52
2 Mar 24	57	39	1	1 - 2	2 - 5	10 - 41
3 Mar 24	57	42	1	1 - 2	1 - 4	8 - 47
4 Mar 24	57	39	1	1 - 2	1 - 5	12 - 51
5 Mar 24	56	41	1	1 - 2	2 - 10	4 - 47
6 Mar 24	63	42	2	1 - 4	1 - 17	2 - 72
7 Mar 24	67	54	2	1 - 2	1 - 8	3 - 66
8 Mar 24	55	38	1	1 - 2	1 - 5	3 - 39
9 Mar 24	43	27	1	1 - 2	1 - 3	16 - 41
10 Mar 24	48	24	2	1 - 2	1 - 4	11 - 37
11 Mar 24	63	49	1	1 - 2	1 - 3	16 - 44
12 Mar 24	62	40	1	1 - 2	1 - 6	11 - 48
13 Mar 24	60	47	2	1 - 3	2 - 8	6 - 65
14 Mar 24	51	34	2	1 - 3	2 - 7	7 - 63
15 Mar 24	66	45	2	1 - 4	1 - 11	3 - 65
16 Mar 24	51	36	2	1 - 2	1 - 8	9 - 32
17 Mar 24	51	33	1	1 - 2	2 - 8	13 - 47
18 Mar 24	55	37	2	1 - 2	2 - 9	4 - 50
19 Mar 24	57	40	2	1 - 2	1 - 9	11 - 50
20 Mar 24	55	36	2	1 - 3	2 - 18	5 - 54
21 Mar 24	69	53	2	2 - 4	4 - 26	4 - 80
22 Mar 24	78	59	2	1 - 4	1 - 18	4 - 84
23 Mar 24	50	34	2	1 - 3	1 - 7	14 - 65
24 Mar 24	54	34	2	1 - 2	2 - 8	11 - 54
25 Mar 24	48	31	1	1 - 2	1 - 7	4 - 43
26 Mar 24	42	27	2	1 - 2	1 - 5	13 - 36
27 Mar 24	47	30	2	1 - 2	1 - 9	3 - 51
28 Mar 24	47	29	2	1 - 4	1 - 11	5 - 56
29 Mar 24	49	35	2	1 - 2	1 - 6	6 - 45
30 Mar 24	43	25	2	1 - 2	1 - 7	4 - 43
31 Mar 24	46	31	2	1 - 3	1 - 6	3 - 47
Range	42 - 78	24 - 59	1 - 2	1 - 4	1 - 26	2 - 84
Number of times (exceeded standard)	0	0	0	0	0	0
Total Day	31	31	31	31	31	31
Monitoring Hour	744	744	712	712	711	712
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10  $\mu\text{m}$   
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement

MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : March

MONITORING STATION : Wat Bang Gado

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Mar 24	26.1	35.8	30.0	40	86	68	1,008	1,013	1,011	0.0
2 Mar 24	26.6	35.5	30.1	46	89	70	1,009	1,014	1,011	0.0
3 Mar 24	26.5	35.9	30.5	46	89	69	1,007	1,013	1,011	0.0
4 Mar 24	26.5	37.3	30.6	38	84	68	1,007	1,013	1,010	0.0
5 Mar 24	25.9	39.6	30.9	20	93	66	1,006	1,012	1,009	0.0
6 Mar 24	24.1	36.8	29.8	29	95	69	1,006	1,011	1,008	0.0
7 Mar 24	24.6	36.7	29.6	36	96	71	1,005	1,010	1,008	0.0
8 Mar 24	24.8	34.3	29.3	56	93	75	1,007	1,011	1,009	0.0
9 Mar 24	27.7	34.9	29.9	48	84	70	1,008	1,013	1,010	0.0
10 Mar 24	26.8	35.6	30.3	44	85	69	1,010	1,015	1,012	0.0
11 Mar 24	26.5	36.0	30.5	47	88	71	1,010	1,015	1,013	0.0
12 Mar 24	26.6	35.4	30.0	51	89	74	1,009	1,015	1,012	0.0
13 Mar 24	26.2	36.6	30.4	31	89	65	1,009	1,014	1,012	0.0
14 Mar 24	25.8	37.8	30.6	28	90	65	1,007	1,014	1,011	0.0
15 Mar 24	25.0	36.2	30.2	32	93	66	1,008	1,013	1,011	0.0
16 Mar 24	27.3	31.0	29.1	63	88	76	1,010	1,015	1,012	0.0
17 Mar 24	25.6	35.9	29.9	39	91	68	1,009	1,015	1,012	0.0
18 Mar 24	24.2	36.5	29.7	41	93	71	1,008	1,013	1,010	0.0
19 Mar 24	26.2	35.4	30.1	48	88	71	1,008	1,013	1,011	0.0
20 Mar 24	24.4	29.2	26.2	73	94	85	1,012	1,017	1,014	7.6
21 Mar 24	24.2	33.4	28.0	46	91	71	1,009	1,015	1,012	0.0
22 Mar 24	24.5	36.4	29.7	40	91	69	1,005	1,011	1,009	0.0
23 Mar 24	25.7	36.1	30.2	40	90	70	1,007	1,011	1,009	0.0
24 Mar 24	26.9	37.3	30.9	33	85	66	1,008	1,013	1,010	0.0
25 Mar 24	26.5	35.6	30.6	51	90	72	1,008	1,013	1,010	0.0
26 Mar 24	27.6	34.8	30.4	48	88	71	1,009	1,014	1,012	0.0
27 Mar 24	27.0	35.3	30.3	47	90	72	1,011	1,016	1,013	0.0
28 Mar 24	25.9	36.2	30.2	43	87	71	1,008	1,013	1,011	0.0
29 Mar 24	26.7	35.9	30.8	46	90	71	1,008	1,013	1,011	0.0
30 Mar 24	26.8	36.8	31.3	42	89	68	1,009	1,014	1,012	0.0
31 Mar 24	26.7	37.4	31.6	32	88	65	1,008	1,014	1,011	0.0
Total Day	24.1	39.6	30.0	20	96	70	1,005	1,017	1,011	7.6
Day	31			31			31			31
Hours	744			743			744			744

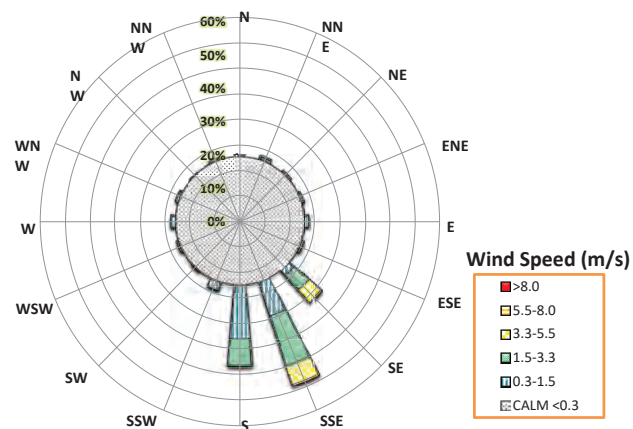
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-31/March/2024

STATION : Wat Bang Gado



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	0.27%	0.40%	0.00%	0.00%	0.00%	0.67%
NNE	0.81%	0.54%	0.00%	0.00%	0.00%	1.34%
NE	0.67%	0.00%	0.00%	0.00%	0.00%	0.67%
ENE	0.67%	0.00%	0.00%	0.00%	0.00%	0.67%
E	1.08%	0.13%	0.00%	0.00%	0.00%	1.21%
ESE	0.54%	0.13%	0.00%	0.00%	0.00%	0.67%
SE	1.75%	6.05%	4.97%	0.00%	0.00%	12.77%
SSE	10.35%	15.99%	6.05%	0.00%	0.00%	32.39%
S	15.86%	8.06%	0.13%	0.00%	0.00%	24.06%
SSW	2.28%	0.00%	0.00%	0.00%	0.00%	2.28%
SW	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
WSW	0.54%	0.00%	0.00%	0.00%	0.00%	0.54%
W	1.48%	0.00%	0.00%	0.00%	0.00%	1.48%
WNW	0.94%	0.00%	0.00%	0.00%	0.00%	0.94%
NW	0.27%	0.00%	0.00%	0.00%	0.00%	0.27%
NNW	0.81%	0.00%	0.00%	0.00%	0.00%	0.81%
	38.31%	31.32%	11.16%	0.00%	0.00%	80.78%
No. of Monitored Hours	744	Hours	No. of Calm		143	Hours
No. of Monitored Days	31	Days	Calm (%)		19.22%	
Missing Data	0	Hours	Average Wind Speed		1.53	m/s
No. of Valid Data	744	Hours	Maximum Wind Speed		5.00	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction		SSE	

Equipment Status of Wat Bang Gado Monitoring Station "March 2024"

No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
2	วัดบางกะได	SO <sub>2</sub>	Thermo Scientific	43i-BZSAB	1315757998	Normal	20210097	
		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDAB	1315757995	Normal	20210099	
		O <sub>3</sub>	Thermo Scientific	49i-BZNAB	1315758000	Normal	20210101	
		DUST (TSP)	Thermo Scientific	5014i (in26-004-2)	CM13211004	Normal	20210095	
		DUST (PM - 10)	Thermo Scientific	5014i (in26-004-1)	CM13211003	Normal	20210093	
		ZERO AIR	Thermo Scientific	1160 BHR2C	1315758003	Normal	20210102.2	
		CALIBRATOR	Thermo Scientific	146i-BB3BEAB	1315758002	Normal	20210102.4	
		DATA LOGGER(Envirodis)	ADVANTECH	IPC-510	KMA1478929	Normal	60110254.0.1.3.4	
		Ethernet Switch	TP-LINK	TL-SF1016	12B86700508	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00077	Normal	-	
		Display LCD 20"	HP	P201	6CM3020GC2	Normal	60110254.2	
		KeyBoard Wireless	Logitech	K220	13145C105MA8	Normal	-	
		Mouse Wireless	Logitech	M150	13135CM0XGW8	Normal	-	
		Standard Gas	Airgas	-	LL156436	Normal	-	
		WIND SPEED	LASTEM	DNA 827	BZ 1506563	Normal	-	
		WIND DIRECTION	LASTEM	DNA 827	BZ 1506563	Normal	-	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506498	Normal	-	
		RELATIVE HUMIDITY	LASTEM	Sensor: DMA672.1	Sensor: 18080122	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404015	Normal	-	
		RAIN GAUGE	LASTEM	DQA 230.1	21120166	Normal	-	

สถานีบ้านคลองแค  
(สถานที่ตรวจวัด : วัดโพธิ์ราษฎร์บูรณะ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd. MONTH : March  
MONITORING STATION : Ban Klong Klæe YEAR : 2024

Date	Concentration					
	TSP (µg/m <sup>3</sup> )	PM-10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Mar 24	44	37	3	3 - 5	2 - 7	9 - 51
2 Mar 24	45	41	3	3 - 4	2 - 6	11 - 45
3 Mar 24	52	50	3	3 - 4	2 - 7	8 - 49
4 Mar 24	45	43	3	3 - 3	2 - 5	12 - 53
5 Mar 24	45	42	3	3 - 5	2 - 13	4 - 56
6 Mar 24	51	48	3	3 - 4	4 - 6	3 - 72
7 Mar 24	54	52	3	3 - 4	3 - 5	3 - 70
8 Mar 24	53	50	3	3 - 3	2 - 11	4 - 42
9 Mar 24	41	37	3	3 - 3	2 - 7	14 - 44
10 Mar 24	42	39	3	3 - 4	2 - 8	9 - 38
11 Mar 24	N/A	53	4	3 - 4	2 - 7	13 - 49
12 Mar 24	56	54	3	3 - 4	2 - 7	13 - 51
13 Mar 24	47	43	3	3 - 5	2 - 9	4 - 76
14 Mar 24	42	38	4	3 - 4	3 - 9	7 - 70
15 Mar 24	55	49	5	4 - 7	2 - 16	4 - 69
16 Mar 24	44	41	4	4 - 5	3 - 6	9 - 35
17 Mar 24	48	46	5	4 - 6	2 - 7	12 - 51
18 Mar 24	50	47	5	4 - 5	2 - 8	4 - 53
19 Mar 24	51	43	5	5 - 6	3 - 6	12 - 59
20 Mar 24	38	34	5	5 - 6	3 - 19	13 - 54
21 Mar 24	55	47	6	5 - 7	5 - 19	12 - 87
22 Mar 24	64	60	5	5 - 6	1 - 17	5 - 88
23 Mar 24	38	33	5	4 - 6	2 - 9	11 - 70
24 Mar 24	36	33	5	4 - 6	3 - 7	12 - 68
25 Mar 24	36	33	5	4 - 5	3 - 7	6 - 53
26 Mar 24	30	27	5	4 - 5	2 - 4	13 - 44
27 Mar 24	43	37	5	4 - 6	2 - 8	4 - 53
28 Mar 24	44	39	5	4 - 5	2 - 8	5 - 56
29 Mar 24	47	41	5	4 - 5	2 - 7	4 - 46
30 Mar 24	37	32	5	4 - 6	2 - 7	4 - 47
31 Mar 24	40	35	5	4 - 6	3 - 7	3 - 59
Range	30 - 64	27 - 60	3 - 6	3 - 7	1 - 19	3 - 88
Number of times (exceeded standard)	0	0	0	0	0	0
Total	30	31	31	31	31	31
Monitoring	Hour	713	738	710	673	710
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-  
1) Standards = Ambient Air Quality Standards of the National Environment Board  
2) TSP = Total Suspended Particulate  
3) PM-10 = Particulate Matter less than 10 µm  
4) SO<sub>2</sub> = Sulfur Dioxide  
5) NO<sub>2</sub> = Nitrogen Dioxide  
6) N/A = Data not Available  
7) \* = Exceeding air quality standard  
8) - = Not Measurement

MONTHLY REPORT

METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

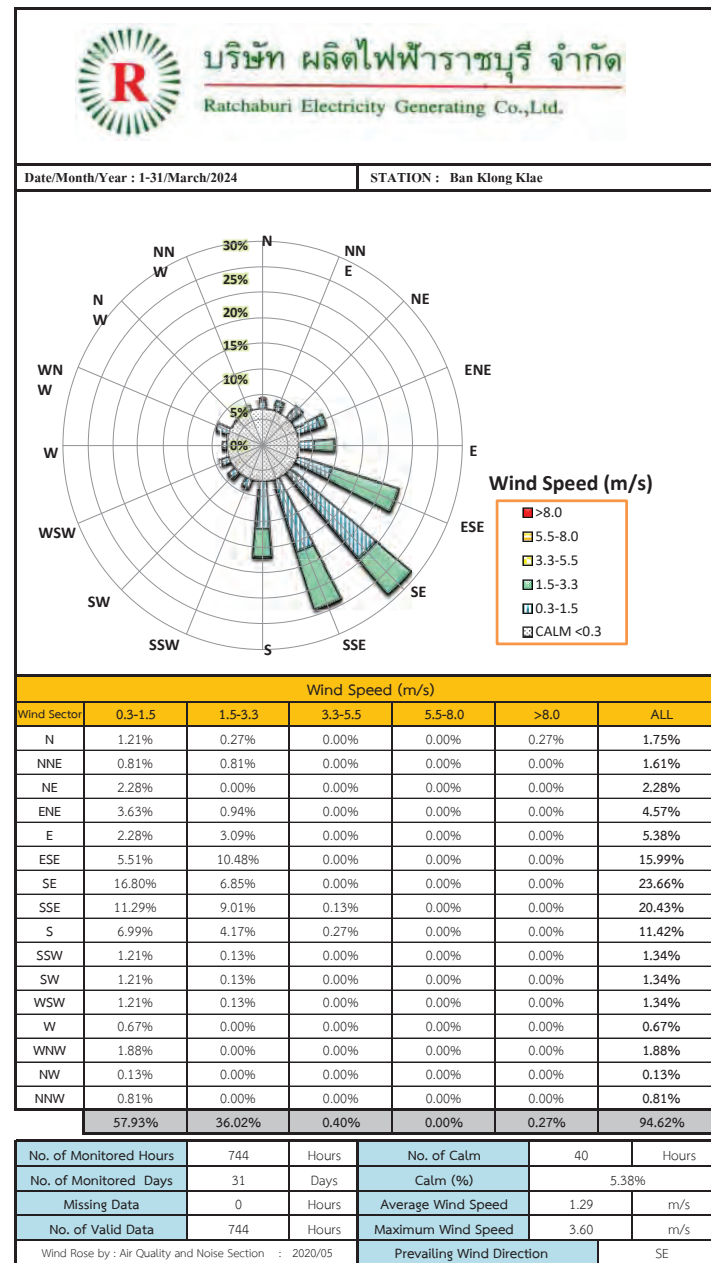
Month : March

MONITORING STATION : Ban Klong Klae

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	
1 Mar 24	26.0	36.3	30.2	40	99	72	1,007	1,012	1,010	0.0
2 Mar 24	26.2	36.1	30.2	43	99	74	1,008	1,012	1,010	0.0
3 Mar 24	26.5	36.3	30.4	43	99	74	1,006	1,012	1,010	0.0
4 Mar 24	26.3	37.4	30.8	36	98	71	1,006	1,012	1,009	0.0
5 Mar 24	26.2	37.9	31.0	23	99	68	1,005	1,011	1,008	0.0
6 Mar 24	24.2	36.8	29.8	26	99	73	1,004	1,009	1,007	0.0
7 Mar 24	24.1	36.7	29.5	34	100	76	1,004	1,009	1,007	0.0
8 Mar 24	24.6	35.2	29.5	52	99	78	1,006	1,010	1,008	0.0
9 Mar 24	27.3	35.6	30.0	44	99	76	1,007	1,012	1,009	0.0
10 Mar 24	26.7	36.1	30.4	42	99	75	1,009	1,014	1,011	0.0
11 Mar 24	26.1	36.7	30.5	44	99	77	1,008	1,014	1,011	0.0
12 Mar 24	26.2	36.4	29.8	45	99	79	1,008	1,014	1,011	0.0
13 Mar 24	25.7	36.2	30.2	33	99	69	1,008	1,013	1,011	0.0
14 Mar 24	25.7	37.7	30.9	27	99	68	1,007	1,013	1,010	0.0
15 Mar 24	25.0	36.4	30.4	32	99	71	1,007	1,012	1,010	0.0
16 Mar 24	27.0	31.3	29.0	57	99	81	1,009	1,014	1,011	0.0
17 Mar 24	25.3	36.7	30.0	37	99	71	1,008	1,013	1,011	0.0
18 Mar 24	24.0	37.2	29.7	38	99	75	1,007	1,012	1,009	0.0
19 Mar 24	26.0	36.0	30.1	45	99	76	1,007	1,012	1,010	0.0
20 Mar 24	24.2	28.2	25.9	89	99	97	1,011	1,016	1,014	4.2
21 Mar 24	23.9	33.1	28.0	47	99	75	1,008	1,014	1,011	0.0
22 Mar 24	24.2	35.8	29.7	41	99	75	1,004	1,010	1,008	0.0
23 Mar 24	25.6	36.3	30.3	37	99	75	1,005	1,010	1,008	0.0
24 Mar 24	26.5	37.0	31.0	37	99	70	1,007	1,012	1,009	0.0
25 Mar 24	26.4	36.4	30.8	47	99	75	1,007	1,011	1,009	0.0
26 Mar 24	27.2	35.9	30.7	45	99	74	1,008	1,013	1,011	0.0
27 Mar 24	26.5	37.1	30.5	42	99	76	1,009	1,015	1,012	0.0
28 Mar 24	25.8	36.1	30.3	42	99	74	1,007	1,012	1,010	0.0
29 Mar 24	26.3	36.6	31.0	41	99	73	1,007	1,011	1,010	0.0
30 Mar 24	26.5	38.1	31.7	35	99	71	1,008	1,013	1,011	0.0
31 Mar 24	26.9	37.4	31.9	39	99	67	1,007	1,012	1,010	0.0
Total	23.9	38.1	30.1	23	100	74	1,004	1,016	1,010	4.2
Day	31			31			31			31
Hours	742			742			742			742

Remarks :- P = Power Fail ,F = Equipment Fail , N/A = Data not Available



Equipment Status of Ban Klong Klae Monitoring Station "March 2024"								
No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
3	บ้านคลองนก	SO <sub>2</sub>	Thermo Scientific	43i-BZSCA	1162850017	Normal	20511163	
(วัดโพธิ์ธารามบุรี)		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDCA	1162850015	Normal	20511165	
		O <sub>3</sub>	Thermo Scientific	49i-BZNCA	1162850019	Normal	20511167	
		DUST (TSP)	Thermo Scientific	5014i/5030i	CM16461001	Normal	20511171	- Filter tape ขาด ทำให้นิยามข้อมูลตรวจวัด
								ในวันที่ 11 March 2024
		DUST (PM - 10)	Thermo Scientific	5014i/5030i	CM16471014	Normal	20511169	
		ZERO AIR	Thermo Scientific	1160 BHP2N	1162850021	Normal	20511173	
		CALIBRATOR	Thermo Scientific	146i-BB6BFCA	1162850023	Normal	20511175	
		DATA LOGGER	ADVANTECH	IPC-50	KMA147893A	Normal	60110255.0.1.3.4	
		DATA LOGGER	HP	HP Compaq	SG5026QWW2	Normal	99050095.1	
		Switch Hub 16 port	D-LINK	DES-101160	F3065CA002170	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00087	Normal	-	
		CPU	hp	d530 SFF	SGH4030WY	Normal	-	
		Display LCD 20"	HP	P201	6CM3151954	Normal	60110255.2	
		KeyBoard Wireless	Logitech	K220	13145C105FH8	Normal	-	
		Mouse Wireless	Logitech	M150	-	Normal	-	
		Standard Gas	Airgas	-	LL156448	Normal	-	
		WIND SPEED	LASTEM	DNA 821	20030210	Normal	-	
		WIND DIRECTION	LASTEM			Normal	-	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506488	Normal	-	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506488	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404017	Normal	-	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	-	

สถานีบ้านชาวเหนือ  
(สถานที่ตรวจวัด : บ้านชาวเหนือ)

MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : March

MONITORING STATION : Ban Chao Nua

YEAR : 2024

Date	Concentration					
	TSP (µg/m <sup>3</sup> )	PM-10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Mar 24	N/A	N/A	1	1 - 2	3 - 10	7 - 56
2 Mar 24	N/A	N/A	1	1 - 2	2 - 8	8 - 47
3 Mar 24	N/A	N/A	1	1 - 2	2 - 6	7 - 51
4 Mar 24	N/A	N/A	1	1 - 2	2 - 9	12 - 63
5 Mar 24	N/A	N/A	1	1 - 2	3 - 9	5 - 60
6 Mar 24	N/A	47	2	1 - 2	3 - 11	4 - 77
7 Mar 24	N/A	56	1	1 - 2	3 - 10	3 - 82
8 Mar 24	N/A	42	1	1 - 2	2 - 10	3 - 40
9 Mar 24	N/A	30	1	1 - 2	2 - 5	17 - 41
10 Mar 24	N/A	34	1	1	2 - 6	7 - 37
11 Mar 24	N/A	56	1	1	2 - 7	12 - 48
12 Mar 24	N/A	53	1	1	2 - 8	8 - 50
13 Mar 24	N/A	46	1	1 - 2	3 - 10	5 - 66
14 Mar 24	N/A	42	2	1 - 2	3 - 16	5 - 67
15 Mar 24	N/A	58	2	1 - 3	3 - 24	3 - 69
16 Mar 24	N/A	46	1	1 - 2	4 - 37	8 - 31
17 Mar 24	N/A	51	1	1 - 2	3 - 26	6 - 47
18 Mar 24	N/A	47	1	1 - 2	3 - 28	5 - 52
19 Mar 24	N/A	55	1	1 - 2	3 - 20	9 - 51
20 Mar 24	N/A	41	1	1 - 2	4 - 26	9 - 55
21 Mar 24	N/A	59	2	1 - 3	5 - 41	5 - 81
22 Mar 24	N/A	67	2	1 - 2	4 - 29	4 - 86
23 Mar 24	N/A	37	1	1 - 2	3 - 25	9 - 66
24 Mar 24	N/A	46	1	1 - 2	3 - 25	5 - 65
25 Mar 24	N/A	37	1	1	3 - 13	3 - 47
26 Mar 24	N/A	29	1	1	2 - 6	13 - 40
27 Mar 24	N/A	33	1	1	3 - 8	3 - 54
28 Mar 24	N/A	33	1	1 - 2	3 - 11	6 - 54
29 Mar 24	N/A	37	1	1	2 - 6	5 - 46
30 Mar 24	N/A	31	1	1	2 - 7	4 - 42
31 Mar 24	N/A	31	1	1 - 2	2 - 7	4 - 52
Range	-	29 - 67	1 - 2	1 - 3	2 - 41	3 - 86
Number of times (exceeded standard)	-	0	0	0	0	0
Total	Day	-	26	31	31	31
Monitoring	Hour	-	622	710	710	710
Ambient Air Quality Standard	-	120	120	300	170	100

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10 µm  
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement

MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : March

MONITORING STATION : Ban Chao Nua

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Mar 24	25.6	36.5	29.9	39	99	76	1,006	1,011	1,008	0.0
2 Mar 24	26.1	35.5	29.9	45	99	77	1,006	1,011	1,008	0.0
3 Mar 24	25.8	36.0	30.1	46	99	77	1,005	1,011	1,008	0.0
4 Mar 24	26.0	37.0	30.4	40	99	77	1,004	1,010	1,007	0.0
5 Mar 24	25.4	37.9	30.6	23	100	71	1,004	1,009	1,006	0.0
6 Mar 24	23.0	36.4	29.4	27	100	76	1,003	1,008	1,005	0.0
7 Mar 24	23.6	36.8	29.2	36	100	76	1,003	1,007	1,005	0.0
8 Mar 24	24.4	34.6	29.2	56	100	83	1,004	1,008	1,006	0.0
9 Mar 24	27.5	35.1	29.8	46	99	80	1,006	1,010	1,008	0.0
10 Mar 24	26.0	35.8	30.3	42	99	78	1,007	1,012	1,009	0.0
11 Mar 24	26.1	36.0	30.4	46	99	79	1,007	1,012	1,010	0.0
12 Mar 24	26.2	35.5	29.9	49	99	81	1,007	1,012	1,010	0.0
13 Mar 24	25.7	36.2	30.1	35	99	73	1,007	1,011	1,009	0.0
14 Mar 24	25.3	37.5	30.4	29	99	71	1,005	1,011	1,008	0.0
15 Mar 24	24.6	35.9	30.0	32	100	74	1,006	1,011	1,008	0.0
16 Mar 24	26.9	30.9	28.9	69	99	86	1,008	1,012	1,009	0.0
17 Mar 24	25.0	36.1	29.8	37	99	73	1,007	1,012	1,009	0.0
18 Mar 24	23.7	36.2	29.5	41	100	77	1,005	1,010	1,008	0.0
19 Mar 24	25.7	35.3	29.9	47	99	78	1,006	1,010	1,008	0.0
20 Mar 24	24.4	28.5	26.0	80	99	97	1,009	1,014	1,012	8.4
21 Mar 24	24.1	32.3	27.6	48	99	79	1,007	1,013	1,010	0.0
22 Mar 24	24.2	35.5	29.4	42	100	77	1,003	1,008	1,006	0.0
23 Mar 24	25.3	36.4	30.1	41	99	77	1,004	1,008	1,006	0.0
24 Mar 24	26.4	36.8	30.8	37	99	74	1,006	1,010	1,008	0.0
25 Mar 24	26.0	35.5	30.4	51	99	78	1,005	1,010	1,008	0.0
26 Mar 24	27.4	34.8	30.4	46	99	78	1,007	1,011	1,009	0.0
27 Mar 24	26.6	35.6	30.1	46	99	80	1,008	1,013	1,011	0.0
28 Mar 24	25.5	35.9	30.1	44	99	79	1,006	1,011	1,008	0.0
29 Mar 24	26.1	36.3	30.6	43	99	78	1,006	1,010	1,008	0.0
30 Mar 24	26.3	36.9	31.1	42	99	75	1,007	1,012	1,009	0.0
31 Mar 24	26.2	37.0	31.4	39	99	72	1,006	1,011	1,009	0.0
Total	23.0	37.9	29.9	23	100	78	1,003	1,014	1,008	8.4
Day	31			31			31			31
Hours	742			742			742			742

Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available

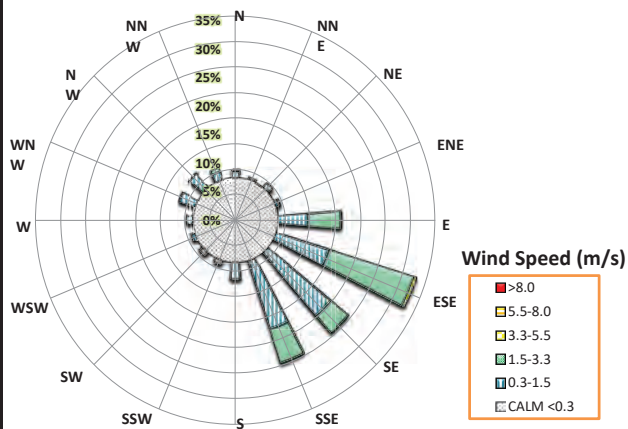


บริษัท ผลิตไฟฟ้าราชบุรี จำกัด

Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-31/March/2024

STATION : Ban Chao Nua



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	0.94%	0.27%	0.00%	0.00%	0.27%	1.48%
NNE	0.40%	0.00%	0.00%	0.00%	0.00%	0.40%
NE	1.08%	0.00%	0.00%	0.00%	0.00%	1.08%
ENE	0.54%	0.27%	0.00%	0.00%	0.00%	0.81%
E	5.11%	5.91%	0.13%	0.00%	0.00%	11.16%
ESE	9.68%	15.59%	0.54%	0.00%	0.00%	25.81%
SE	14.38%	4.03%	0.00%	0.00%	0.00%	18.41%
SSE	12.50%	6.32%	0.00%	0.00%	0.00%	18.82%
S	2.96%	0.00%	0.00%	0.00%	0.00%	2.96%
SSW	0.81%	0.00%	0.00%	0.00%	0.00%	0.81%
SW	0.81%	0.00%	0.00%	0.00%	0.00%	0.81%
WSW	0.67%	0.00%	0.00%	0.00%	0.00%	0.67%
W	1.08%	0.00%	0.00%	0.00%	0.00%	1.08%
WNW	2.82%	0.13%	0.00%	0.00%	0.00%	2.96%
NW	3.09%	0.13%	0.00%	0.00%	0.00%	3.23%
NNW	1.48%	0.67%	0.00%	0.00%	0.00%	2.15%
	58.33%	33.33%	0.67%	0.00%	0.27%	92.61%

No. of Monitored Hours	744	Hours	No. of Calm	55	Hours
No. of Monitored Days	31	Days	Calm (%)	7.39%	
Missing Data	0	Hours	Average Wind Speed	1.30	m/s
No. of Valid Data	744	Hours	Maximum Wind Speed	3.70	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction	ESE	

Equipment Status of Ban Chao Nua Monitoring Station "March 2024"

No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
4	บ้านชาวนาเหือง	SO <sub>2</sub>	Thermo Scientific	43i-BZSAB	1315757997	Normal	20210096	
		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDAA	CM23367032	Normal	20210248	
		O <sub>3</sub>	Thermo Scientific	49i-BZNA8	1315757999	Normal	20210100	
		DUST (TSP)	Thermo Scientific	5014i (in26-004-4)	CM13211006	Fail	20210094	- Pressure Flow Alarm : High และไม่สามารถควบคุม Flow ได้ จึงส่งตรวจเช็คกับ บป.ICO ทำได้ไม่มีข้อมูลตรวจวัดระหว่างวันที่ 1-31 March 2024
		DUST (PM - 10)	Thermo Scientific	5014i (in26-004-3)	CM13211005	Normal	20210092	- Pressure Flow Alarm : High และไม่สามารถควบคุม Flow ได้ จึงส่งตรวจเช็คกับ บป.ICO ทำได้ไม่มีข้อมูลตรวจวัดระหว่างวันที่ 1-5 March 2024 และนำเครื่องทดแทนติดตั้งชั่วคราวในวันที่ 6 March 2024
		ZERO AIR	Thermo Scientific	1160 BHR2C	1315758010	Normal	20210102.1	
		CALIBRATOR	Thermo Scientific	146i-BB3BEAB	1315758001	Normal	20210102.3	
		DATA LOGGER(Envirodata)	ADVANTECH	IPC-510	KMA1478933	Normal	60110252.0000.1.3.4	
		Data LOGGER License	Envitech	Envidas Ultimate	281230	Normal	-	
		Switch Hub 16 port	TP-LINK	TL-SF1016	12886701720	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00082	Normal	-	
		Display LCD 20"	HP	P201	6CM31519JB	Normal	60110252.2	
		KeyBoard Wireless	Logitech	K220	13145C105M68	Normal	-	
		Mouse Wireless	Logitech	M150	13135CM0XH08	Normal	-	
		Standard Gas	Airgas	-	LL121560	Normal	-	
		WIND SPEED	LASTEM	DNA 827	BZ 1506562	Normal	20210013 0013	
		WIND DIRECTION	LASTEM	DNA 827	BZ 1506562	Normal	20210013 0014	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506501	Normal	20210013 0015	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506501	Normal		
		BAROMATIC PRESSURE	LASTEM	DQA 208	-	Normal	20210013 0016	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	20210013 0018	



Preventive maintenance schedule,

Plan and actual

งานบำรุงรักษาสถานีตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง โรงไฟฟ้า บริษัท ราชบริเวาเวอร์ ประจำปี 2024

รายละเอียดงาน	มกราคม			กุมภาพันธ์			มีนาคม			เมษายน			พฤษภาคม			มิถุนายน			กรกฎาคม			สิงหาคม			กันยายน			ตุลาคม			พฤศจิกายน			ธันวาคม																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1. งานประเมินความเสี่ยงทางสุขภาพเบื้องต้นของสารเคมี																																																		
- Single Point	✓		✓																																															
- Multi Point				✓																																														
2. งานสำรวจและจัดทำฐานและรายการข้อมูลเบื้องต้นของสารเคมี ก๊าซ SO <sub>2</sub> , NO <sub>x</sub> และ CO <sub>2</sub>																																																		
3. งานประเมินความเสี่ยงทางสุขภาพเบื้องต้นของ Multi Gas Calibrator																																																		
- ศึกษาการวัดของขนาด								✓										✓							✓																									
4. งานสำรวจและประเมินสุขภาพผู้สัมผัสกับสารเคมี																																																		
5. งานประเมินความเสี่ยงทางสุขภาพเบื้องต้นของสารเคมี ฝุ่น TSP และ PM10																																																		
- ศึกษาการวัดของขนาด								✓																																										
6. งานสำรวจและจัดทำฐานและรายการข้อมูลเบื้องต้นของสารเคมี ฝุ่น TSP PM10																																																		
- ศึกษาการวัดของขนาด																																																		
7. งานนำข้อมูลจากงานวิเคราะห์ทางสถิติ																																																		

✓

Plan

■

Actual

## Corrective maintenance work list

### Corrective maintenance work list

Project : Ratchaburi Power Co.,Ltd.

Page 1 of 1

Site No.: 5

Station : Donsai Sub-district

Month - Year : มี.ค.-2024

[illegible]

Engineer:	Mr. Pongviriya Chaowalit
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Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Remark :

# Weekly report

Weekly Report _ AAQM-RB					
Site :	Ratchaburi Power Plant			Week No.	10
Date :	4-Mar-24		to	10-Mar-24	
ผู้ปฏิบัติงาน :	1) นาย พงศ์วิริยะ เชาวลิตร		2)		
	3)		4)		
พชร. :	นาย สง่า กรุ่มรัมย์				
<u>สรุปรายละเอียดการปฏิบัติงาน</u>					
- Data logger ปกติ					
- สถานีโดยรอบ ปกติ					
- Standard gas 1590 psi					
- Replace filter high-volume (Run 11/03/2024)					
Remark :					
				นาย พงศ์วิริยะ เชาวลิตร	
				ผู้ปฏิบัติงาน	
Date :				11-Mar-2024	

[illegible][illegible]



Calibration result

List Code for Spare Part & Consumable Part AAQM-RPCL (March 2024)

No.	Description	Use for Analyzer	S/N	Unit	Balan	Jan	Balan	Feb	Balan	Mar	Balan
1	1405DF Consumables PKG	PM-10/2.5 TEOM	59-010993	set	1	0	1	0	1	0	1
2	Pump Re-build kit	PM-10/2.5 TEOM	111754-00	set	2	0	2	0	2	0	2
3	Filter box of 20 TX40 TEOM	PM-10/2.5 TEOM	57007225-0020	ea	28	1	27	1	26	1	25
4	Silica Gel * <del>(0.155-1.5)</del>	NO <sub>2</sub>	-	can	2	0	2	0	2	0	2
5	Pump Re-build kit 42IQ	NO <sub>3</sub>	117901-00	set	3	1	2	0	2	0	2
6	Sinter Filter(ECCH 01004701)	SO <sub>2</sub>	E0980001811	set	1	0	1	0	1	0	1
7	Rebuild Kit, External Pump Model:617CD22-194 C	SO <sub>2</sub> O <sub>3</sub>	SK61722	set	6	2	4	0	4	0	4
8	Filter Element, 5 Micron, Consumable (1pk = 50 ea.) 47mm.	SO <sub>2</sub> NO <sub>2</sub> O <sub>3</sub>	F010006-01	ea	67	3	64	3	61	3	58
9	Glass Fiber Filter Media 8" x 10" (100Sheet/Box)(Brand:Whatman)	TSP High-Volume	EPH2000(GNGFG85BX10-T)	SHEET	270	5	265	5	260	5	255
10	Silica/Quartz Micro Filter Filter Media 8" x 10" (50Sheet/Box)(Brand:Whatman)PM-10	PM-10 High-Volume	QMAEOHVQMASK10-T)	SHEET	322	5	317	5	312	5	307

## Calibration Sheet

Project : Ratchaburi Power Plant

Page 01

Site No. : 5      Station : Donsai      Date : 12 Mar 24      Start Time : 9.00

Analyzer	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>	Standard Gas	SO <sub>2</sub>	NO <sub>x</sub>	Remark
Manufacture	ECOTECH	Thermo	ECOTECH	Cylinder No.	D 636099		
Model	EC 9850B	42IQ-BBANN	EC 9810 B	Concentration	50.10	51.90	
Serial No.	05-1274	1181510016	06-0001	Multi Gas Calibrator			
Range	0 - 500 ppb	0 - 500 ppb	0 - 500 ppb	Model : Sabio(4010)	Serial No. : -		

Phase	Set Point	Desire Value			Monitor Value			Drift			% Drift			Factor
SO <sub>2</sub> Before Calibrate	Zero	0.0			5.0			-5.0			-1.0			Gain : 20.12
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			453.0			-3.0			-0.7			
SO <sub>2</sub> After Calibrate	Zero	0.0			3.0			-3.0			-0.6			Gain : 19.88
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			450.0			0.0			0.0			
		NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	
NO <sub>x</sub> Before Calibrate	Zero	0.0	0.0	0.0	3.0	0.3	3.3	-3.0	-0.3	-3.3	-0.6	-0.1	-0.7	NO COEF : 1.084 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 0.992
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	150.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	456.0	-1.0	455.0	-6.0	1.0	-5.0	-1.3	0.2	-1.1	
NO <sub>x</sub> After Calibrate	Zero	0.0	0.0	0.0	1.6	0.1	1.7	-1.6	-0.1	-1.7	-0.3	0.0	-0.3	NO COEF : 1.068 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 0.999
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	150.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	449.0	3.0	452.0	1.0	-3.0	-2.0	0.2	-0.7	-0.4	
O <sub>3</sub> Before Calibrate	Zero	0.0			1.0			-1.0			-0.2			Gain : 0.971
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			459.0			-9.0			-2.0			
O <sub>3</sub> After Calibrate	Zero	0.0			1.0			-1.0			-0.2			Gain : 0.969
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			450.0			0.0			0.0			
	Zero Drift = Desire Value - Monitor Valve % Zero Drift = (Zero Drift/Full Scale) * 100 % Zero Drift +/- 3% Accept Data							Span Drift = Desire Valve - Monitor Value % Span Drift = (Span Drift/Desire Value) * 100 % Span Drift +/- 5% Accept Data						

Calibrate by : Pongviriya

Finish Time : 10.00

Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Comment : \_\_\_\_\_

## Calibration Sheet

Project : Ratchaburi Power Plant

Page 02

Site No. : 5      Station : Donsai      Date : 19 Mar 24      Start Time : 9.00

Analyzer	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>	Standard Gas	SO <sub>2</sub>	NO <sub>x</sub>	Remark
Manufacture	ECOTECH	Thermo	ECOTECH	Cylinder No.	D 636099		
Model	EC 9850B	42IQ-BBANN	EC 9810 B	Concentration	50.10	51.90	
Serial No.	05-1274	1181510016	06-0001	Multi Gas Calibrator			
Range	0 - 500 ppb	0 - 500 ppb	0 - 500 ppb	Model : Sabio(4010)	Serial No. : -		

Phase	Set Point	Desire Value			Monitor Value			Drift			% Drift			Factor
SO <sub>2</sub> Before Calibrate	Zero	0.0			3.0			-3.0			-0.6			Gain : 19.88
	Span(Lo.)	80.0			81.0			-1.0			-1.3			
	Span(Mid.)	150.0			145.0			5.0			3.3			
	Span(Hi.)	450.0			449.0			1.0			0.2			
SO <sub>2</sub> After Calibrate	Zero	0.0			-			-			-			Gain : -
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			-			-			-			
		NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	
NO <sub>x</sub> Before Calibrate	Zero	0.0	0.0	0.0	2.0	1.0	3.0	-2.0	-1.0	-3.0	-0.4	-0.2	-0.6	NO COEF : 1.068 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 0.999
	Span(Lo.)	80.0	0.0	80.0	79.0	1.0	80.0	1.0	-1.0	0.0	1.3	-0.2	0.0	
	Span(Mid.)	150.0	0.0	151.0	147.0	2.0	149.0	3.0	-2.0	2.0	2.0	-0.4	1.3	
	Span(Hi.)	450.0	0.0	450.0	449.0	1.0	451.0	1.0	-1.0	-1.0	0.2	-0.2	-0.2	
NO <sub>x</sub> After Calibrate	Zero	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	NO COEF : - NO <sub>2</sub> COEF : - NO <sub>x</sub> COEF : -
	Span(Lo.)	80.0	1.0	81.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	1.0	151.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	-	-	-	-	-	-	-	-	-	
O <sub>3</sub> Before Calibrate	Zero	0.0			2.0			-2.0			-0.4			Gain : 0.969
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			469.0			-19.0			-4.2			
O <sub>3</sub> After Calibrate	Zero	0.0			2.0			-2.0			-0.4			Gain : 0.955
	Span(Lo.)	80.0			84.0			-4.0			-5.0			
	Span(Mid.)	150.0			154.0			-4.0			-2.7			
	Span(Hi.)	450.0			450.0			0.0			0.0			
Zero Drift = Desire Value - Monitor Valve % Zero Drift = (Zero Drift/Full Scale) * 100 % Zero Drift +/- 3% Accept Data							Span Drift = Desire Valve - Monitor Value % Span Drift = (Span Drift/Desire Value) * 100 % Span Drift +/- 5% Accept Data							

Calibrate by : Pongviriya

Finish Time : 11.00

Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Comment : \_\_\_\_\_



**บริษัท ราชบุรีเพาเวอร์ จำกัด**  
**Ratchaburi Power Co., Ltd.**

**รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง**  
**บริษัท ราชบุรีเพาเวอร์ จำกัด**

**ประจำเดือนเมษายน 2567**

**เสนอต่อ**

**บริษัท ราชบุรีเพาเวอร์ จำกัด**

**โดย**

**ฝ่ายสิ่งแวดล้อมโครงการ**

**การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย**

รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาเวอร์ จำกัด  
ประจำเดือนเมษายน 2567

**รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง**  
**บริษัท ราชบุรีเพาเวอร์ จำกัด**  
**เดือนเมษายน 2567**

ผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง บริษัท ราชบุรีเพาเวอร์ จำกัด ประจำเดือนเมษายน 2567 จากสถานีตรวจวัดคุณภาพอากาศเทศบาลตำบลดอนทราย ผลการตรวจวัดดัชนีคุณภาพอากาศ พบว่า ฝุ่นละอองรวม ฝุ่นละอองขนาดไม่เกิน 10 ไมครอน ก๊าซซัลเฟอร์ไดออกไซด์ ก๊าซไนโตรเจนไดออกไซด์ และก๊าซโอโซน มีค่าอยู่ในเกณฑ์มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไปตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ยกเว้นค่าฝุ่นละอองขนาดไม่เกิน 2.5 ไมครอน ที่พบว่ามีค่าเกินเกณฑ์มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป โดยมีเกินค่ามาตรฐานฯ เป็นครั้งคราวดังนี้

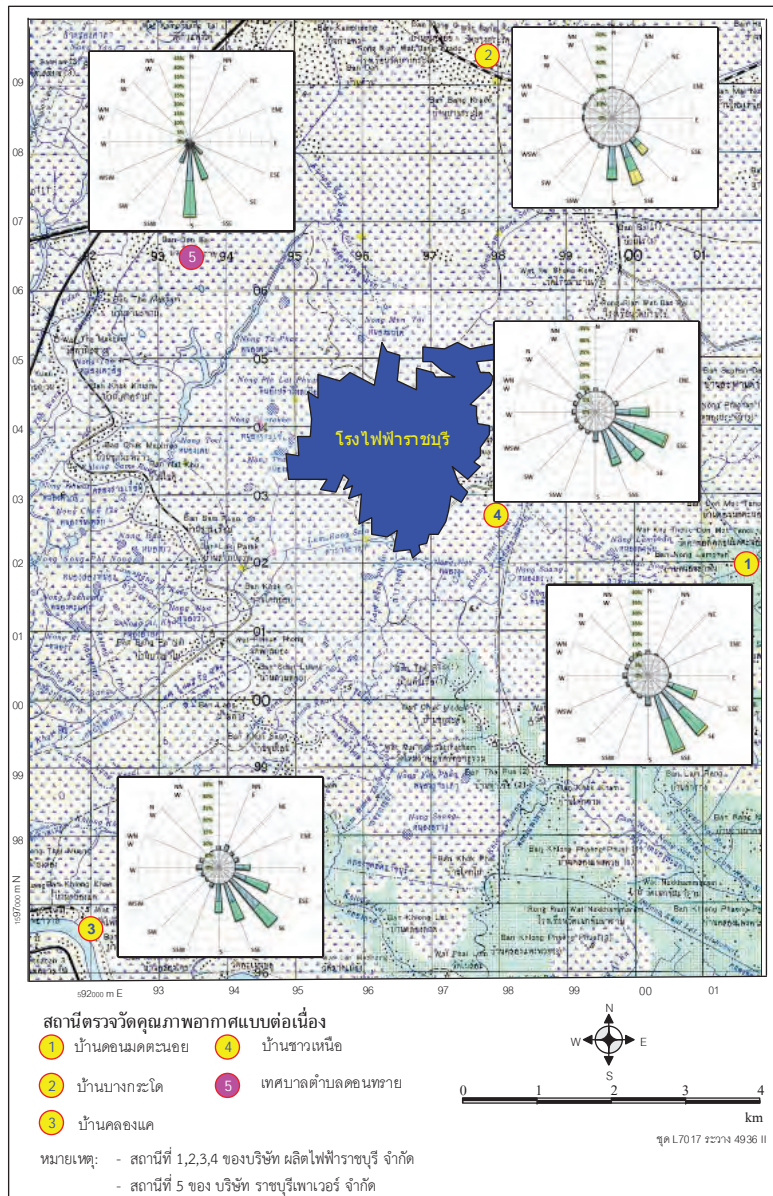
- ฝุ่นละอองขนาดไม่เกิน 2.5 ไมครอน ในวันที่ 11, 17, 20-22, 30 เมษายน 2567 มีค่า 40.4 - 51.0  $\mu\text{g}/\text{m}^3$

**สรุปผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง (เมษายน 2567)**

สถานีตรวจวัด	ค่าเฉลี่ยในเวลา 24 ชั่วโมง				ค่าเฉลี่ยในเวลา 1 ชั่วโมง		
	( $\mu\text{g}/\text{m}^3$ )			(ppb)	(ppb)		
	TSP	PM-10	PM-2.5	SO <sub>2</sub>	SO <sub>2</sub>	NO <sub>2</sub>	O <sub>3</sub>
เทศบาลตำบลดอนทราย	25 - 87	26 - 66	17.1 - 51.0*	0 - 3	0 - 4	0 - 14	2 - 95
มาตรฐาน	330	120	37.5	120	300	170	100

หมายเหตุ : มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป ตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 21 (พ.ศ. 2544) ฉบับที่ 24 (พ.ศ. 2547) ฉบับที่ 28 (พ.ศ. 2550) ฉบับที่ 33 (พ.ศ. 2552), ราชกิจจานุเบกษา เล่ม 139 ตอนพิเศษ 163ง (พ.ศ. 2565)





แผนที่แสดงตำแหน่งที่ตั้งสถานีตรวจวัดคุณภาพอากาศแบบต่อเนื่อง ของ บริษัท ผลิตไฟฟ้าราชบุรี จำกัด และ บริษัท ราชบุรีเพาเวอร์ จำกัด

สถานีเทศบาลตำบลดอนทราย



บริษัท ราชบุรีพาวเวอร์ จำกัด  
Ratchaburi Power Co.,Ltd.

# MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : April

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date						
	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)		O <sub>3</sub> (ppb)	O <sub>2</sub> (%)
	24-Hr. Avg.	1-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Apr 24	2	0 - 3	5	2 - 14	8 - 87	N/A
2 Apr 24	1	0 - 3	3	0 - 11	3 - 67	N/A
3 Apr 24	2	1 - 2	3	0 - 7	4 - 43	N/A
4 Apr 24	1	1 - 2	2	0 - 7	3 - 44	N/A
5 Apr 24	2	1 - 2	2	0 - 4	7 - 30	N/A
6 Apr 24	2	1 - 2	1	0 - 2	7 - 27	N/A
7 Apr 24	2	1 - 2	2	1 - 3	7 - 27	N/A
8 Apr 24	1	0 - 2	2	1 - 3	6 - 27	N/A
9 Apr 24	1	1 - 2	2	1 - 4	4 - 30	N/A
10 Apr 24	2	1 - 3	5	1 - 12	5 - 48	N/A
11 Apr 24	2	1 - 2	7	3 - 14	10 - 83	N/A
12 Apr 24	2	1 - 3	3	2 - 7	10 - 57	N/A
13 Apr 24	0	0 - 2	3	2 - 4	8 - 54	N/A
14 Apr 24	2	1 - 2	3	1 - 4	6 - 49	N/A
15 Apr 24	2	2 - 3	3	1 - 6	4 - 40	N/A
16 Apr 24	1	1 - 2	2	1 - 6	7 - 49	N/A
17 Apr 24	1	0 - 2	5	2 - 9	3 - 60	N/A
18 Apr 24	0	0 - 1	5	2 - 12	5 - 58	N/A
19 Apr 24	2	1 - 3	4	2 - 12	3 - 65	N/A
20 Apr 24	3	2 - 3	4	2 - 10	6 - 74	N/A
21 Apr 24	3	3 - 4	4	2 - 12	4 - 65	N/A
22 Apr 24	3	2 - 4	4	1 - 10	12 - 75	N/A
23 Apr 24	2	0 - 4	2	1 - 4	5 - 95	N/A
24 Apr 24	2	0 - 2	3	2 - 4	7 - 34	N/A
25 Apr 24	1	0 - 2	3	2 - 4	5 - 32	N/A
26 Apr 24	1	0 - 2	3	1 - 4	5 - 41	N/A
27 Apr 24	2	1 - 3	3	2 - 7	5 - 60	N/A
28 Apr 24	N/A	N/A	N/A	2 - 8	3 - 20	N/A
29 Apr 24	N/A	N/A	N/A	2 - 4	9 - 48	N/A
30 Apr 24	0	0 - 2	5	2 - 13	2 - 77	N/A
Range	0 - 3	0 - 4	1 - 7	0 - 14	2 - 95	-
Number of times (exceeded standard)	0	0	0	0	0	-
Total	Day	28	28	30	30	-
Monitoring	Hour	669	669	668	687	-
Ambient Air Quality Standard		120	300	-	170	100

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) SO<sub>2</sub> = Sulfur Dioxide 5) N/A = Data not Available  
 3) NO<sub>2</sub> = Nitrogen Dioxide 6) \* = Exceeding air quality standard  
 4) O<sub>3</sub> = Ozone 7) - = Not Measurement



บริษัท ราชบุรีพาวเวอร์ จำกัด  
Ratchaburi Power Co.,Ltd.

# MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

MONTH : April

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date	Concentration (24-Hr Avg)				
	TSP (µg/m <sup>3</sup> )		PM-10 (µg/m <sup>3</sup> )		PM-2.5 (µg/m <sup>3</sup> )
	Micro balance	Hi volume	Micro balance	Hi volume	Micro balance
1 Apr 24	78		59		34.5
2 Apr 24	74		58		35.4
3 Apr 24	62		57		33.9
4 Apr 24	54	57	49	30	29.9
5 Apr 24	57		48		30.0
6 Apr 24	48		45		28.2
7 Apr 24	40		40		25.0
8 Apr 24	45		38		23.4
9 Apr 24	N/A		29		17.1
10 Apr 24	N/A	58	46	34	32.4
11 Apr 24	78		61		43.7*
12 Apr 24	65		52		34.8
13 Apr 24	58		44		29.4
14 Apr 24	60		45		31.0
15 Apr 24	54		40		26.3
16 Apr 24	51	61	37	29	24.4
17 Apr 24	61		46		51.0*
18 Apr 24	67		50		32.8
19 Apr 24	67		52		37.0
20 Apr 24	83		66		49.9*
21 Apr 24	85		65		45.4*
22 Apr 24	79	68	60	53	40.4*
23 Apr 24	25		57		35.5
24 Apr 24	50		35		23.8
25 Apr 24	37		26		17.1
26 Apr 24	46		29		19.7
27 Apr 24	48		36		26.0
28 Apr 24	N/A	38	N/A	17	N/A
29 Apr 24	N/A		N/A		N/A
30 Apr 24	87		60		42.4*
Range	25 - 87	38 - 68	26 - 66	17 - 53	17.1 - 51.0*
Number of times (exceeded standard)	0	0	0	0	6
Total	Day	26	5	5	28
Monitoring	Hour	621	120	665	665
Ambient Air Quality Standard		330	330	120	120

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10 µm  
 4) PM-2.5 = Particulate Matter with diameter of less than 2.5 micron



## MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : April

MONITORING STATION : Donsai Sub-district

YEAR : 2024

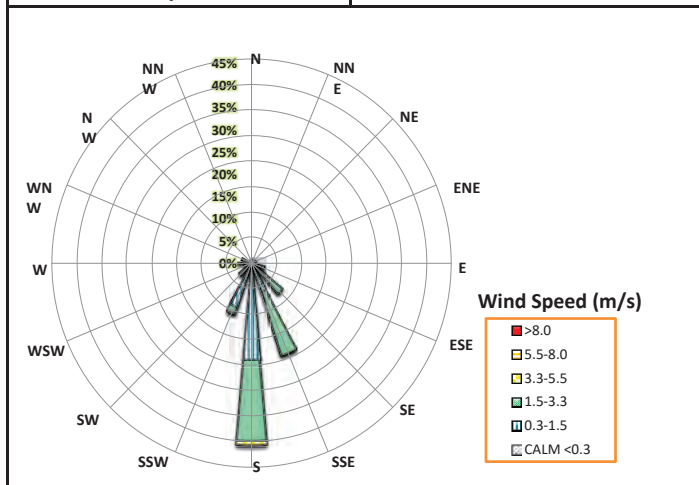
Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Apr 24	25.9	42.1	32.7	28	95	66	1,001	1,006	1,003	0.0
2 Apr 24	25.6	40.9	32.3	39	96	73	1,001	1,005	1,002	0.0
3 Apr 24	26.9	39.8	32.5	46	97	77	1,000	1,006	1,003	0.0
4 Apr 24	27.3	40.3	32.8	46	99	78	1,001	1,005	1,002	0.0
5 Apr 24	28.0	39.7	32.6	53	97	80	1,000	1,004	1,002	0.0
6 Apr 24	28.3	38.9	32.8	56	97	80	1,000	1,005	1,003	0.0
7 Apr 24	28.0	40.7	33.1	47	97	75	1,000	1,005	1,002	0.0
8 Apr 24	27.4	41.1	33.1	47	93	73	1,001	1,006	1,003	0.0
9 Apr 24	28.1	40.1	33.3	53	93	75	1,000	1,005	1,002	0.0
10 Apr 24	28.7	38.4	32.7	56	92	75	1,002	1,007	1,004	0.0
11 Apr 24	28.2	40.8	33.3	47	85	70	1,002	1,010	1,006	0.0
12 Apr 24	27.7	39.6	33.2	51	90	72	1,001	1,009	1,005	0.0
13 Apr 24	28.4	41.2	33.1	49	90	74	1,001	1,008	1,004	0.0
14 Apr 24	27.6	39.8	32.9	49	93	73	1,002	1,009	1,005	0.0
15 Apr 24	27.6	40.2	32.9	49	95	74	1,003	1,010	1,005	0.0
16 Apr 24	27.4	40.8	32.9	46	94	73	1,000	1,008	1,004	0.0
17 Apr 24	27.5	40.5	32.8	47	92	72	1,001	1,007	1,003	0.0
18 Apr 24	27.3	42.3	33.4	36	94	71	1,000	1,005	1,002	0.0
19 Apr 24	27.2	41.9	33.3	37	94	70	1,001	1,004	1,002	0.0
20 Apr 24	26.8	42.3	33.5	35	92	65	1,000	1,004	1,003	0.0
21 Apr 24	27.9	42.4	33.9	38	88	63	1,000	1,006	1,003	0.0
22 Apr 24	28.4	41.2	33.9	44	86	68	1,001	1,005	1,002	0.0
23 Apr 24	28.9	40.5	33.5	48	92	76	1,000	1,004	1,002	0.0
24 Apr 24	28.9	40.1	33.7	50	95	75	1,001	1,005	1,002	0.0
25 Apr 24	28.1	40.7	33.4	51	95	74	1,000	1,006	1,002	0.0
26 Apr 24	27.2	40.0	33.3	53	93	75	1,000	1,004	1,002	0.0
27 Apr 24	29.2	41.9	34.4	42	94	73	1,000	1,004	1,002	0.0
28 Apr 24	29.3	34.8	30.7	64	93	86	1,001	1,005	1,003	0.0
29 Apr 24	31.0	41.3	35.5	46	85	68	1,001	1,001	1,001	0.0
30 Apr 24	27.1	43.7	34.1	35	96	69	1,001	1,003	1,002	0.0
Total	25.6	43.7	33.2	28	99	73	1,000	1,010	1,003	0.0
Day	30			30			30			30
Hours	692			692			416			666

Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



Date/Month/Year : 1-30/April/2024

STATION : Donsai Sub-district



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NNE	0.14%	0.00%	0.00%	0.00%	0.00%	0.14%
NE	0.43%	0.00%	0.00%	0.00%	0.00%	0.43%
ENE	0.72%	0.00%	0.29%	0.00%	0.00%	1.01%
E	0.29%	0.14%	0.00%	0.00%	0.00%	0.43%
ESE	2.02%	0.87%	0.00%	0.00%	0.00%	2.89%
SE	2.02%	7.08%	0.00%	0.00%	0.00%	9.10%
SSE	6.65%	15.17%	0.00%	0.00%	0.00%	21.82%
S	21.82%	18.21%	1.01%	0.00%	0.00%	41.04%
SSW	10.40%	1.73%	0.00%	0.00%	0.00%	12.14%
SW	2.89%	0.72%	0.00%	0.00%	0.00%	3.61%
WSW	1.30%	0.43%	0.00%	0.00%	0.00%	1.73%
W	2.17%	1.01%	0.00%	0.00%	0.00%	3.18%
WNW	2.02%	0.29%	0.00%	0.00%	0.00%	2.31%
NW	0.14%	0.00%	0.00%	0.00%	0.00%	0.14%
NNW	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	53.03%	45.66%	1.30%	0.00%	0.00%	100.00%

No. of Monitored Hours	720	Hours	No. of Calm	0	Hours
No. of Monitored Days	30	Days	Calm (%)	0.00%	
Missing Data	28	Hours	Average Wind Speed	1.37	m/s
No. of Valid Data	692	Hours	Maximum Wind Speed	4.80	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction		S

Equipment Status of Donsai Sub-district Monitoring Station "April 2024"							
No.	Site	Analyzer	Brand	Model	S/N	Status	Description
5	ดอนทราย	SO <sub>2</sub>	Ecotech	EC9850B	05-1274	Normal	- Data Logger ชัตตง ทำใ้ไม่มีข้อมูลตรวจจัด
							ระหว่างวันที่ 28-29 April 2024
		O <sub>3</sub>	Ecotech	EC9810B	06-0001	Normal	
		NO <sub>2</sub>	Thermo	42IQ	-	Normal	- Data Logger ชัตตง ทำใ้ไม่มีข้อมูลตรวจจัด 24 Hr.
							ระหว่างวันที่ 28-29 April 2024
		DUST (PM - 10/2.5)	Thermo	1405DF	1405A248712190	Normal	- Data Logger ชัตตง ทำใ้ไม่มีข้อมูลตรวจจัดระหว่าง
							วันที่ 28-29 April 2024
		DUST (TSP)	Thermo	1405	1405A250862311	Normal	- Sensor Flow Fail ทำใ้ไม่มีข้อมูลตรวจจัดระหว่างวันที่ 9-10 Apr 2024
							และ Data Logger ชัตตง ทำใ้ไม่มีข้อมูลตรวจจัดระหว่าง
							วันที่ 28-29 April 2024
		O <sub>2</sub>	Riken keiki	OX-600		Fail	- Board Fail ไม่สามารถซ่อมได้ อยู่ระหว่างจัดซื้อเครื่องใหม่ทดแทน
		Hivolume air sampler(PM-10)	Ecotech	HVS3000	05-1104	Normal	
		Hivolume air sampler(TSP)	Ecotech	HVS3000	05-1103	Normal	
		WIND SPEED	Met One	010C	ET612	Normal	
		WIND DIRECTION	Met One	020C	F1128	Normal	
		AT/RH	Met One	083D-1-35	F1320	Normal	
		BAROMATIC PRESSURE	Met One	090D	F1231	Normal	
		Raingauge	Met One	-	-	Normal	
		Multi Translator	Met One	2270	F1284	Normal	
		Data Logger	ADVANTECH	IPC-510		Normal	
		Multi Gas Calibration	SABIO	4010	10260306	Normal	
		Zero Air Generator	SABIO	1001	030614768	Normal	
		Modem	Tornado	FMV56.0E	4088712	Normal	
		Air Condition 1	Daikin	AR180V2S	E003687	Normal	
		Air Condition 2	Daikin	AR180V2S	E002831	Normal	

ภาคผนวก

สถานีบ้านดอนมดตะนอย  
(สถานที่ตรวจวัด : วัดนักบุญอันโตนิโอ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : April

MONITORING STATION : Ban Don Mod Tanoi

YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Apr 24	54	N/A	2	1 - 3	3 - 10	1 - 81
2 Apr 24	61	N/A	2	1 - 3	2 - 10	1 - 71
3 Apr 24	52	N/A	1	1 - 2	2 - 9	2 - 53
4 Apr 24	51	N/A	1	1 - 2	2 - 7	1 - 54
5 Apr 24	45	N/A	2	1 - 2	2 - 6	7 - 42
6 Apr 24	44	N/A	2	1 - 2	2 - 6	5 - 39
7 Apr 24	35	N/A	2	1 - 2	2 - 6	5 - 42
8 Apr 24	49	N/A	2	1 - 2	2 - 7	8 - 43
9 Apr 24	34	N/A	1	1 - 2	2 - 7	1 - 44
10 Apr 24	49	N/A	2	1 - 2	2 - 9	7 - 75
11 Apr 24	70	N/A	2	2 - 3	5 - 12	10 - 112*
12 Apr 24	51	N/A	2	1 - 2	3 - 9	15 - 70
13 Apr 24	47	N/A	1	1 - 2	3 - 6	10 - 66
14 Apr 24	51	N/A	1	1 - 2	2 - 7	7 - 53
15 Apr 24	41	N/A	2	1 - 2	2 - 8	5 - 46
16 Apr 24	36	N/A	2	1 - 2	2 - 10	5 - 58
17 Apr 24	49	N/A	2	1 - 2	2 - 11	3 - 59
18 Apr 24	43	N/A	2	1 - 2	2 - 10	3 - 69
19 Apr 24	58	N/A	2	1 - 3	3 - 9	1 - 70
20 Apr 24	59	N/A	2	2 - 3	3 - 10	4 - 83
21 Apr 24	62	N/A	2	1 - 3	3 - 10	1 - 68
22 Apr 24	67	N/A	2	2	2 - 11	7 - 65
23 Apr 24	49	N/A	2	1 - 2	2 - 8	4 - 54
24 Apr 24	39	N/A	2	1 - 2	2 - 9	8 - 47
25 Apr 24	31	N/A	2	1 - 2	2 - 7	3 - 40
26 Apr 24	26	N/A	2	1 - 2	2 - 8	3 - 48
27 Apr 24	40	N/A	2	2 - 3	2 - 7	5 - 69
28 Apr 24	36	N/A	2	2 - 3	2 - 8	3 - 61
29 Apr 24	42	N/A	2	2 - 3	2 - 7	2 - 55
30 Apr 24	56	N/A	2	2 - 3	2 - 9	1 - 91
Range	26 - 70	-	1 - 2	1 - 3	2 - 12	1 - 112*
Number of times (exceeded standard)	0	-	0	0	0	1
Total	30	-	30	30	30	30
Monitoring Hour	719	-	690	690	690	690
Ambient Air Quality Standard	330	-	120	300	170	100

- Remark :-
- Standards = Ambient Air Quality Standards of the National Environment Board
  - TSP = Total Suspended Particulate
  - PM-10 = Particulate Matter less than 10  $\mu\text{m}$
  - SO<sub>2</sub> = Sulfur Dioxide
  - NO<sub>2</sub> = Nitrogen Dioxide
  - N/A = Data not Available
  - \* = Exceeding air quality standard
  - = Not Measurement



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

## MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : April

MONITORING STATION : Ban Don Mod Tanoi

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Apr 24	25.7	40.2	31.4	17	99	65	1,006	1,012	1,009	0.0
2 Apr 24	24.9	38.6	31.1	31	99	74	1,005	1,010	1,008	0.0
3 Apr 24	26.2	37.6	31.1	37	99	79	1,006	1,011	1,008	0.0
4 Apr 24	26.4	37.8	31.4	44	99	80	1,006	1,010	1,008	0.0
5 Apr 24	27.1	37.5	31.3	47	99	82	1,005	1,010	1,007	0.0
6 Apr 24	27.2	37.2	31.3	49	99	81	1,006	1,010	1,008	0.0
7 Apr 24	27.1	38.8	31.8	39	99	74	1,005	1,011	1,007	0.0
8 Apr 24	26.7	38.9	31.8	36	99	73	1,006	1,011	1,008	0.0
9 Apr 24	27.3	38.3	32.0	48	99	77	1,007	1,011	1,009	0.0
10 Apr 24	28.2	37.2	31.9	45	99	73	1,008	1,012	1,010	0.0
11 Apr 24	26.7	39.3	31.9	39	99	70	1,008	1,013	1,011	0.0
12 Apr 24	26.9	38.2	31.9	41	99	71	1,007	1,012	1,010	0.0
13 Apr 24	27.6	39.0	31.7	42	99	74	1,006	1,012	1,009	0.0
14 Apr 24	26.9	38.4	31.5	40	99	73	1,007	1,012	1,010	0.0
15 Apr 24	26.7	38.3	31.4	42	99	75	1,008	1,013	1,010	0.0
16 Apr 24	26.6	38.9	31.4	38	99	72	1,006	1,012	1,009	0.0
17 Apr 24	26.3	38.8	31.5	39	99	70	1,006	1,011	1,008	0.0
18 Apr 24	26.4	40.1	31.7	28	99	72	1,004	1,010	1,007	0.0
19 Apr 24	26.6	40.0	31.8	27	99	69	1,003	1,009	1,006	0.0
20 Apr 24	26.2	40.9	32.1	24	99	65	1,003	1,009	1,006	0.0
21 Apr 24	26.4	40.7	32.3	27	99	62	1,003	1,010	1,007	0.0
22 Apr 24	27.1	39.8	32.4	33	98	68	1,004	1,010	1,006	0.0
23 Apr 24	27.8	39.6	32.1	37	99	77	1,004	1,009	1,006	0.0
24 Apr 24	27.8	38.4	32.1	42	99	76	1,005	1,009	1,007	0.0
25 Apr 24	27.1	38.6	31.9	44	99	74	1,004	1,010	1,007	0.0
26 Apr 24	26.2	38.0	31.8	46	99	76	1,004	1,009	1,006	0.0
27 Apr 24	28.2	39.8	32.9	37	99	75	1,004	1,009	1,006	0.0
28 Apr 24	28.1	39.4	32.7	36	99	72	1,005	1,010	1,007	0.0
29 Apr 24	27.4	39.6	32.6	35	99	71	1,005	1,011	1,008	0.0
30 Apr 24	26.4	42.3	32.6	22	99	68	1,003	1,008	1,006	0.0
Total	24.9	42.3	31.9	17	99	73	1,003	1,013	1,008	0.0
Day	30			30			30			30
Hours	720			720			720			720

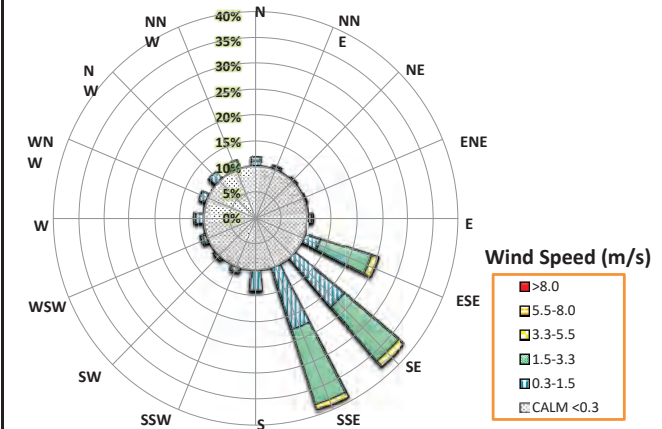
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-30/April/2024

STATION : Ban Don Mod Tanoi



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	1.11%	0.69%	0.00%	0.00%	0.00%	1.81%
NNE	0.42%	0.28%	0.00%	0.00%	0.00%	0.69%
NE	0.14%	0.14%	0.00%	0.00%	0.00%	0.28%
ENE	0.14%	0.00%	0.00%	0.00%	0.00%	0.14%
E	0.56%	0.28%	0.14%	0.00%	0.00%	0.97%
ESE	3.06%	10.56%	1.39%	0.00%	0.00%	15.00%
SE	12.50%	14.03%	1.39%	0.00%	0.00%	27.92%
SSE	12.64%	15.56%	1.11%	0.00%	0.00%	29.31%
S	3.89%	0.14%	0.00%	0.00%	0.00%	4.03%
SSW	0.97%	0.00%	0.00%	0.00%	0.00%	0.97%
SW	0.56%	0.00%	0.00%	0.00%	0.00%	0.56%
WSW	0.69%	0.42%	0.00%	0.00%	0.00%	1.11%
W	1.53%	0.42%	0.00%	0.00%	0.00%	1.94%
WNW	1.39%	0.00%	0.00%	0.00%	0.00%	1.39%
NW	1.81%	0.00%	0.00%	0.00%	0.00%	1.81%
NNW	1.81%	0.00%	0.00%	0.00%	0.00%	1.81%
	43.19%	42.50%	4.03%	0.00%	0.00%	89.72%

No. of Monitored Hours	720	Hours	No. of Calm	74	Hours
No. of Monitored Days	30	Days	Calm (%)	10.28%	
Missing Data	0	Hours	Average Wind Speed	1.58	m/s
No. of Valid Data	720	Hours	Maximum Wind Speed	4.00	m/s
Prevailing Wind Direction				SSE	

Equipment Status of Ban Don Mod Tanoi Monitoring Station "April 2024"								
No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No.	Description
1	บ้านดอนมดตะนอย	SO <sub>2</sub>	Thermo Scientific	43i-BZSCA	1162850018	Normal	20511164	
	(วัดน้ำบุญญา)	NO <sub>2</sub>	Thermo Scientific	42i-BZMSDCA	1162850016	Normal	20511166	
		O <sub>3</sub>	Thermo Scientific	49i-B2NCA	1162850020	Normal	20511168	
		DUST (TSP)	Thermo Scientific	5014i/5030i	CM16461002	Normal	20511172	
		DUST (PM - 10)	Thermo Scientific	5014i/5030i	CM16471015	Fail	20511170	-Foil ซาด อยู่ระหว่างส่งตรวจเช็คกับ บ. PICO ทำได้
								ไม่มีข้อมูลตรวจวัดระหว่างวันที่ 1-30 April 2024
		ZERO AIR	Thermo Scientific	1160 BHP2N	1162850022	Normal	20511174	
		CALIBRATOR	Thermo Scientific	146i-BB6BFCA	1162850024	Normal	20511176	
		DATA LOGGER	ADVANTECH	IPC-50	KMA1478934	Normal	60110253.1.3.4	
		Switch Hub 16 port	TP-LINK	TL-SF1016	12B86700507	Normal	-	
		UPS	Power Matic	TR-3000	13KEI00080	Normal	-	
		Display LCD 20"	hp	P201	6CM3151950	Normal	60110253.2	
		Keyboard	Logitech	K220	13145C105F28	Normal	-	
		Mouse	Logitech	M150	-	Normal	-	
		Standard Gas	Airgas	-	LL111365	Normal	-	
		WIND SPEED	LASTEM	DNA-827	-	Normal	-	
		WIND DIRECTION	LASTEM					
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506500	Normal	-	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506500	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404016	Normal	-	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	-	

สถานีบ้านบางกะโด  
(สถานที่ตรวจวัด : วัดบางกะโด)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : April

MONITORING STATION : Wat Bang Gado

YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Apr 24	78	58	2	2 - 3	2 - 13	N/A
2 Apr 24	77	58	2	1 - 3	1 - 13	24 - 74
3 Apr 24	63	45	2	1 - 2	1 - 9	6 - 59
4 Apr 24	57	41	2	1 - 2	2 - 8	4 - 62
5 Apr 24	56	40	2	1 - 2	1 - 6	10 - 45
6 Apr 24	52	37	2	1 - 2	1 - 5	10 - 40
7 Apr 24	49	32	2	2	1 - 5	11 - 43
8 Apr 24	49	27	2	2	2 - 6	10 - 44
9 Apr 24	43	27	2	1 - 2	2 - 9	3 - 42
10 Apr 24	54	40	2	2 - 4	2 - 13	4 - 72
11 Apr 24	73	57	3	2 - 4	5 - 15	20 - 99
12 Apr 24	61	38	2	2	4 - 11	16 - 61
13 Apr 24	62	37	2	2	4 - 15	12 - 61
14 Apr 24	62	45	2	1 - 2	3 - 12	10 - 53
15 Apr 24	56	43	2	2	3 - 10	7 - 46
16 Apr 24	51	36	2	2	3 - 9	9 - 56
17 Apr 24	58	41	2	2 - 3	3 - 12	5 - 59
18 Apr 24	55	35	2	2 - 3	2 - 9	8 - 69
19 Apr 24	67	49	2	2 - 3	2 - 7	6 - 70
20 Apr 24	85	62	3	2 - 4	4 - 11	8 - 76
21 Apr 24	84	70	2	2 - 3	4 - 8	11 - 67
22 Apr 24	79	57	2	2 - 3	2 - 11	14 - 77
23 Apr 24	63	48	2	2	1 - 8	8 - 58
24 Apr 24	49	35	2	2	0 - 5	12 - 44
25 Apr 24	43	33	2	2 - 3	0 - 6	6 - 40
26 Apr 24	44	24	2	2 - 3	0 - 6	6 - 47
27 Apr 24	52	39	2	2 - 3	0 - 4	7 - 65
28 Apr 24	55	36	2	2 - 4	0 - 4	5 - 64
29 Apr 24	57	39	2	2 - 3	0 - 5	2 - 55
30 Apr 24	77	55	3	2 - 4	0 - 7	2 - 85
Range	43 - 85	24 - 70	2 - 3	1 - 4	0 - 15	2 - 99
Number of times (exceeded standard)	0	0	0	0	0	0
Total Day	30	30	30	30	30	29
Monitoring Hour	720	720	686	686	686	652
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-

1) Standards = Ambient Air Quality Standards of the National Environment Board

2) TSP = Total Suspended Particulate

3) PM-10 = Particulate Matter less than 10  $\mu\text{m}$

4) SO<sub>2</sub> = Sulfur Dioxide

5) NO<sub>2</sub> = Nitrogen Dioxide

6) N/A = Data not Available

7) \* = Exceeding air quality standard

8) - = Not Measurement

MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : April

MONITORING STATION : Wat Bang Gado

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Apr 24	25.8	39.5	31.4	19	91	60	1,005	1,012	1,009	0.0
2 Apr 24	25.3	37.9	30.9	32	89	67	1,005	1,010	1,008	0.0
3 Apr 24	26.7	36.4	30.9	41	94	73	1,006	1,011	1,008	0.0
4 Apr 24	27.1	36.9	31.2	40	94	74	1,005	1,011	1,008	0.0
5 Apr 24	27.6	36.4	31.1	50	93	77	1,005	1,010	1,007	0.0
6 Apr 24	27.9	35.7	31.2	55	94	76	1,005	1,010	1,007	0.0
7 Apr 24	27.6	37.4	31.5	43	92	71	1,005	1,010	1,007	0.0
8 Apr 24	27.2	37.3	31.6	43	86	68	1,006	1,011	1,008	0.0
9 Apr 24	27.5	37.2	31.8	53	88	71	1,006	1,011	1,008	0.0
10 Apr 24	28.4	35.6	31.4	52	85	70	1,008	1,012	1,010	0.0
11 Apr 24	27.4	38.0	31.9	43	80	65	1,007	1,013	1,010	0.0
12 Apr 24	27.4	36.5	31.7	46	82	67	1,007	1,012	1,009	0.0
13 Apr 24	28.0	38.2	31.6	45	85	69	1,006	1,011	1,009	0.0
14 Apr 24	27.2	36.9	31.3	45	86	68	1,007	1,012	1,009	0.0
15 Apr 24	27.2	36.8	31.3	46	88	70	1,008	1,012	1,010	0.0
16 Apr 24	27.1	37.2	31.2	42	89	67	1,006	1,011	1,009	0.0
17 Apr 24	26.8	37.3	31.5	43	90	66	1,006	1,010	1,008	0.0
18 Apr 24	26.9	39.9	31.7	27	87	66	1,003	1,009	1,006	0.0
19 Apr 24	27.1	38.7	31.7	29	92	64	1,002	1,008	1,005	0.0
20 Apr 24	26.3	40.0	31.9	26	88	59	1,002	1,008	1,005	0.0
21 Apr 24	26.8	39.7	32.4	29	80	56	1,002	1,010	1,006	0.0
22 Apr 24	27.8	38.4	32.3	38	80	62	1,003	1,009	1,006	0.0
23 Apr 24	28.3	37.6	32.0	45	87	71	1,003	1,008	1,006	0.0
24 Apr 24	28.2	37.0	31.9	47	89	71	1,004	1,009	1,006	0.0
25 Apr 24	27.4	37.2	31.8	49	90	69	1,004	1,009	1,006	0.0
26 Apr 24	26.8	36.7	31.6	51	90	71	1,004	1,009	1,006	0.0
27 Apr 24	28.6	38.7	32.7	36	89	68	1,003	1,008	1,006	0.0
28 Apr 24	28.4	38.1	32.5	37	90	67	1,005	1,009	1,007	0.0
29 Apr 24	27.6	37.8	32.3	42	90	66	1,004	1,010	1,007	0.0
30 Apr 24	26.7	40.6	32.3	25	91	64	1,002	1,008	1,005	0.0
Total	25.3	40.6	31.7	19	94	68	1,002	1,013	1,007	0.0
Day	30			30			30			30
Hours	720			720			720			720

Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available

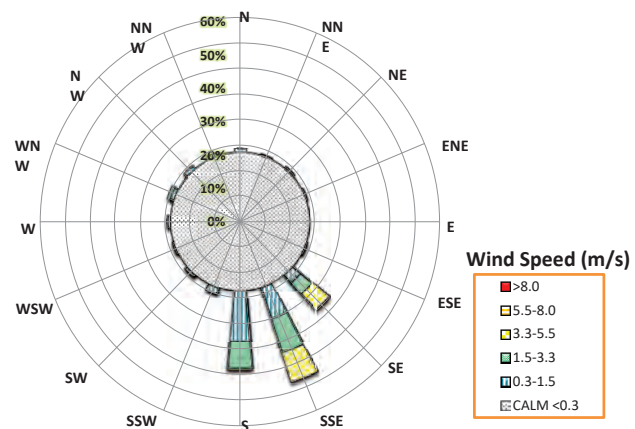




บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-30/April/2024

STATION : Wat Bang Gado



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	0.97%	0.14%	0.00%	0.00%	0.00%	1.11%
NNE	0.14%	0.14%	0.00%	0.00%	0.00%	0.28%
NE	0.56%	0.00%	0.00%	0.00%	0.00%	0.56%
ENE	0.28%	0.14%	0.00%	0.00%	0.00%	0.42%
E	0.00%	0.14%	0.00%	0.00%	0.00%	0.14%
ESE	0.28%	0.14%	0.00%	0.00%	0.00%	0.42%
SE	2.92%	4.58%	6.94%	0.00%	0.00%	14.44%
SSE	9.86%	10.56%	9.44%	0.00%	0.00%	29.86%
S	15.14%	8.19%	0.28%	0.00%	0.00%	23.61%
SSW	1.94%	0.00%	0.00%	0.00%	0.00%	1.94%
SW	0.83%	0.00%	0.00%	0.00%	0.00%	0.83%
WSW	0.42%	0.00%	0.00%	0.00%	0.00%	0.42%
W	0.69%	0.42%	0.00%	0.00%	0.00%	1.11%
WNW	1.11%	0.97%	0.00%	0.00%	0.00%	2.08%
NW	1.11%	0.14%	0.00%	0.00%	0.00%	1.25%
NNW	0.83%	0.00%	0.00%	0.00%	0.00%	0.83%
	37.08%	25.56%	16.67%	0.00%	0.00%	79.31%
No. of Monitored Hours	720	Hours	No. of Calm	149	Hours	
No. of Monitored Days	30	Days	Calm (%)	20.69%		
Missing Data	0	Hours	Average Wind Speed	1.59	m/s	
No. of Valid Data	720	Hours	Maximum Wind Speed	5.10	m/s	
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction		SSE	

Equipment Status of Wat Bang Gado Monitoring Station "April 2024"

No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
2	วัดบางกะโด	SO <sub>2</sub>	Thermo Scientific	43i-BZSAB	1315757998	Normal	20210097	
		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDAB	1315757995	Normal	20210099	
		O <sub>3</sub>	Thermo Scientific	49i-BZNA8	1315758000	Normal	20210101	- Alarm Flow : Low ทำไม่ได้ไม่มีข้อมูลตรวจวัด
								ในวันที่ 1 April 2024
		DUST (TSP)	Thermo Scientific	5014i (in26-004-2)	CM13211004	Normal	20210095	
		DUST (PM - 10)	Thermo Scientific	5014i (in26-004-1)	CM13211003	Normal	20210093	
		ZERO AIR	Thermo Scientific	1160 BHR2C	1315758003	Normal	20210102.2	
		CALIBRATOR	Thermo Scientific	146i-BB3BEAB	1315758002	Normal	20210102.4	
		DATA LOGGER(Envigas)	ADVANTECH	IPC-510	KMA1478929	Normal	60110254.0.1.3.4	
		Ethernet Switch	TP-LINK	TL-SF1016	12B86700508	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00077	Normal	-	
		Display LCD 20"	HP	P201	6CM3020GC2	Normal	60110254.2	
		KeyBoard Wireless	Logitech	K220	1314SC105MA8	Normal	-	
		Mouse Wireless	Logitech	M150	1313SCM0XGW8	Normal	-	
		Standard Gas	Airgas	-	LL156436	Normal	-	
		WIND SPEED	LASTEM	DNA 827	BZ 1506563	Normal	-	
		WIND DIRECTION	LASTEM	DNA 827	BZ 1506563	Normal	-	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506498	Normal	-	
		RELATIVE HUMIDITY	LASTEM	Sensor: DMA672.1	Sensor: 18080122	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404015	Normal	-	
		RAIN GAUGE	LASTEM	DQA 230.1	21120166	Normal	-	

สถานีบ้านคลองแค  
(สถานที่ตรวจวัด : วัดโพธิ์ราษฎร์บูรณะ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.  
MONITORING STATION : Ban Klong Klæe

MONTH : April  
YEAR : 2024

Date	Concentration					
	TSP (µg/m <sup>3</sup> )	PM-10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Apr 24	63	57	5	4 - 6	2 - 12	3 - 78
2 Apr 24	52	48	4	2 - 6	2 - 7	3 - 83
3 Apr 24	61	53	2	1 - 4	3 - 7	6 - 65
4 Apr 24	49	43	2	1 - 4	3 - 6	6 - 65
5 Apr 24	50	42	3	2 - 4	3 - 6	10 - 55
6 Apr 24	44	40	2	2 - 3	3 - 6	12 - 45
7 Apr 24	39	34	2	2 - 4	2 - 6	11 - 52
8 Apr 24	40	33	3	2 - 3	3 - 6	13 - 49
9 Apr 24	41	31	3	2 - 3	3 - 7	4 - 59
10 Apr 24	46	41	3	2 - 4	3 - 14	8 - 62
11 Apr 24	64	60	3	2 - 4	5 - 14	22 - 102*
12 Apr 24	52	45	2	1 - 3	3 - 10	21 - 70
13 Apr 24	56	49	2	1 - 3	3 - 9	14 - 63
14 Apr 24	52	45	2	2 - 3	3 - 7	8 - 57
15 Apr 24	54	45	2	1 - 2	2 - 9	10 - 50
16 Apr 24	52	45	2	1 - 3	2 - 8	10 - 57
17 Apr 24	47	39	2	1 - 2	3 - 10	3 - 66
18 Apr 24	46	43	2	2 - 3	2 - 9	8 - 68
19 Apr 24	53	45	3	2 - 4	3 - 11	4 - 75
20 Apr 24	68	65	3	2 - 4	3 - 13	5 - 81
21 Apr 24	73	64	2	2	2 - 12	4 - 75
22 Apr 24	70	64	2	2 - 3	2 - 9	14 - 70
23 Apr 24	53	44	2	2	2 - 9	6 - 58
24 Apr 24	39	38	3	2 - 4	2 - 8	12 - 50
25 Apr 24	30	25	3	2 - 3	2 - 7	7 - 47
26 Apr 24	35	31	2	2 - 3	2 - 8	7 - 57
27 Apr 24	40	34	3	2 - 5	2 - 8	9 - 73
28 Apr 24	44	40	2	1 - 4	1 - 7	6 - 64
29 Apr 24	41	34	2	1 - 3	2 - 10	3 - 63
30 Apr 24	69	63	3	2 - 4	2 - 11	3 - 84
Range	30 - 73	25 - 65	2 - 5	1 - 6	1 - 14	3 - 102*
Number of times (exceeded standard)	0	0	0	0	0	1
Total	30	30	30	30	30	30
Monitoring	Hour	720	717	688	684	691
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10  $\mu\text{m}$   
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement

MONTHLY REPORT

METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : April

MONITORING STATION : Ban Klong Klae

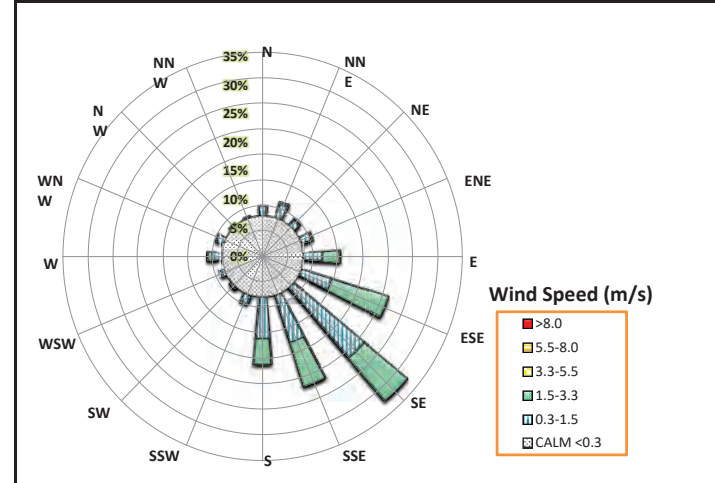
YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Apr 24	26.0	39.9	31.9	17	99	60	1,004	1,010	1,008	0.0
2 Apr 24	25.3	38.4	31.1	31	99	72	1,004	1,009	1,006	0.0
3 Apr 24	26.4	37.4	31.2	38	99	78	1,005	1,010	1,007	0.0
4 Apr 24	27.1	38.1	31.5	41	99	78	1,005	1,009	1,007	0.0
5 Apr 24	27.2	37.4	31.3	46	99	80	1,003	1,009	1,006	0.0
6 Apr 24	27.5	36.9	31.4	50	99	80	1,004	1,009	1,006	0.0
7 Apr 24	27.2	38.4	31.9	42	99	73	1,004	1,009	1,006	0.0
8 Apr 24	26.8	38.3	31.7	36	99	72	1,005	1,010	1,007	0.0
9 Apr 24	27.5	38.4	32.0	46	99	73	1,005	1,009	1,007	0.0
10 Apr 24	28.4	36.7	31.7	45	98	71	1,007	1,011	1,009	0.0
11 Apr 24	27.3	38.0	32.1	42	98	64	1,006	1,011	1,009	0.0
12 Apr 24	27.8	37.0	32.0	43	82	63	1,006	1,010	1,008	0.0
13 Apr 24	27.8	38.7	31.8	42	93	68	1,005	1,010	1,008	0.0
14 Apr 24	26.9	37.4	31.6	42	99	69	1,006	1,011	1,008	0.0
15 Apr 24	27.2	37.7	31.7	41	99	70	1,006	1,011	1,009	0.0
16 Apr 24	26.9	38.2	31.6	38	99	71	1,005	1,010	1,008	0.0
17 Apr 24	26.6	38.0	31.8	40	99	67	1,004	1,009	1,007	0.0
18 Apr 24	27.1	39.6	32.2	25	99	67	1,003	1,008	1,006	0.0
19 Apr 24	26.9	38.8	32.1	29	99	66	1,002	1,007	1,005	0.0
20 Apr 24	26.4	39.3	32.3	26	99	62	1,002	1,007	1,005	0.0
21 Apr 24	26.9	40.3	32.8	26	98	57	1,002	1,009	1,005	0.0
22 Apr 24	28.0	39.8	32.6	32	85	60	1,003	1,008	1,005	0.0
23 Apr 24	28.4	38.5	32.2	40	99	74	1,002	1,008	1,005	0.0
24 Apr 24	27.9	38.1	32.2	44	99	74	1,003	1,008	1,005	0.0
25 Apr 24	27.5	38.4	32.1	45	99	71	1,003	1,008	1,005	0.0
26 Apr 24	26.6	37.5	31.8	47	99	72	1,003	1,007	1,005	0.0
27 Apr 24	28.8	39.1	33.0	38	99	70	1,002	1,007	1,005	0.0
28 Apr 24	28.4	38.9	32.7	40	99	69	1,004	1,008	1,006	0.0
29 Apr 24	27.4	39.0	32.5	35	99	69	1,003	1,009	1,006	0.0
30 Apr 24	26.8	42.1	32.9	21	99	63	1,001	1,007	1,004	0.0
Total	25.3	42.1	32.0	17	99	69	1,001	1,011	1,006	0.0
Day	30			30			30			30
Hours	720			720			720			720

Remarks :- P = Power Fail ,F = Equipment Fail , N/A = Data not Available

Date/Month/Year : 1-30/April/2024

STATION : Ban Klong Klae



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	1.67%	0.00%	0.00%	0.00%	0.00%	1.67%
NNE	2.50%	0.42%	0.00%	0.00%	0.00%	2.92%
NE	1.25%	0.28%	0.00%	0.00%	0.00%	1.53%
ENE	1.67%	0.28%	0.14%	0.00%	0.00%	2.08%
E	3.33%	3.06%	0.00%	0.00%	0.00%	6.39%
ESE	5.56%	10.42%	0.00%	0.00%	0.00%	15.97%
SE	16.11%	9.86%	0.00%	0.00%	0.00%	25.97%
SSE	8.61%	8.19%	0.00%	0.00%	0.00%	16.81%
S	7.22%	4.58%	0.00%	0.00%	0.00%	11.81%
SSW	1.53%	0.14%	0.00%	0.00%	0.00%	1.67%
SW	0.42%	0.00%	0.00%	0.00%	0.00%	0.42%
WSW	0.69%	0.14%	0.00%	0.00%	0.00%	0.83%
W	1.81%	0.69%	0.14%	0.00%	0.00%	2.64%
WNW	1.39%	0.14%	0.00%	0.00%	0.00%	1.53%
NW	0.42%	0.00%	0.00%	0.00%	0.00%	0.42%
NNW	0.28%	0.00%	0.00%	0.00%	0.00%	0.28%
	54.44%	38.19%	0.28%	0.00%	0.00%	92.92%

No. of Monitored Hours	720	Hours	No. of Calm	51	Hours
No. of Monitored Days	30	Days	Calm (%)	7.08%	
Missing Data	0	Hours	Average Wind Speed	1.29	m/s
No. of Valid Data	720	Hours	Maximum Wind Speed	3.50	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05				Prevailing Wind Direction	
				SE	

Equipment Status of Ban Klong Klae Monitoring Station "April 2024"								
No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
3	บ้านคลองนก	SO <sub>2</sub>	Thermo Scientific	43i-BZSCA	1162850017	Normal	20511163	
	(วัดโพธิ์ราษฎร์)	NO <sub>2</sub>	Thermo Scientific	42i-BZMSDCA	1162850015	Normal	20511165	
		O <sub>3</sub>	Thermo Scientific	49i-BZNCA	1162850019	Normal	20511167	
		DUST (TSP)	Thermo Scientific	5014i/5030i	CM16461001	Normal	20511171	
		DUST (PM - 10)	Thermo Scientific	5014i/5030i	CM16471014	Normal	20511169	
		ZERO AIR	Thermo Scientific	1160 BHP2N	1162850021	Normal	20511173	
		CALIBRATOR	Thermo Scientific	146i-BB6BFCA	1162850023	Normal	20511175	
		DATA LOGGER	ADVANTECH	IPC-50	KMA147893A	Normal	60110255.0.1.3.4	
		DATA LOGGER	HP	HP Compaq	SG5026QWW2	Normal	99050095.1	
		Switch Hub 16 port	D-LINK	DES-101160	F3065CA002170	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00087	Normal	-	
		CPU	hp	d530 SFF	SGH4030WY	Normal	-	
		Display LCD 20"	HP	P201	6CM3151954	Normal	60110255.2	
		KeyBoard Wireless	Logitech	K220	13145C105FH8	Normal	-	
		Mouse Wireless	Logitech	M150	-	Normal	-	
		Standard Gas	Airgas	-	LL156448	Normal	-	
		WIND SPEED	LASTEM	DNA 821	20030210	Normal	-	
		WIND DIRECTION	LASTEM			Normal	-	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506488	Normal	-	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506488	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404017	Normal	-	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	-	

สถานีบ้านชาวเหนือ  
(สถานที่ตรวจวัด : บ้านชาวเหนือ)

MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.  
MONITORING STATION : Ban Chao Nua

MONTH : April  
YEAR : 2024

Date	Concentration					
	TSP (µg/m <sup>3</sup> )	PM-10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Apr 24	N/A	59	2	1 - 3	3 - 10	3 - 78
2 Apr 24	N/A	62	2	1 - 2	3 - 10	3 - 73
3 Apr 24	N/A	59	1	1 - 1	5 - 33	2 - 64
4 Apr 24	N/A	49	1	1 - 2	3 - 22	0 - 62
5 Apr 24	N/A	51	1	1 - 1	4 - 29	0 - 47
6 Apr 24	N/A	47	1	1 - 3	3 - 30	0 - 42
7 Apr 24	N/A	40	2	2 - 3	4 - 15	2 - 44
8 Apr 24	N/A	37	2	2	4 - 10	10 - 46
9 Apr 24	N/A	30	2	2	3 - 8	4 - 43
10 Apr 24	N/A	40	2	2	4 - 9	6 - 70
11 Apr 24	N/A	64	2	2 - 3	5 - 11	14 - 104*
12 Apr 24	N/A	51	2	2	3 - 10	15 - 66
13 Apr 24	N/A	50	2	2 - 3	3 - 8	10 - 59
14 Apr 24	N/A	52	2	2	3 - 9	7 - 53
15 Apr 24	N/A	39	2	2	3 - 8	8 - 47
16 Apr 24	N/A	40	2	2	3 - 9	9 - 56
17 Apr 24	N/A	45	2	2 - 3	3 - 12	5 - 61
18 Apr 24	N/A	44	2	2 - 3	3 - 10	9 - 64
19 Apr 24	N/A	54	2	2 - 3	4 - 9	6 - 67
20 Apr 24	N/A	72	2	2 - 3	4 - 8	9 - 78
21 Apr 24	N/A	73	2	2 - 3	3 - 7	8 - 66
22 Apr 24	N/A	67	2	2 - 3	3 - 11	11 - 67
23 Apr 24	N/A	49	2	2	2 - 8	7 - 54
24 Apr 24	N/A	38	2	2	2 - 7	8 - 45
25 Apr 24	N/A	26	2	2	3 - 7	5 - 42
26 Apr 24	N/A	34	2	2	2 - 8	6 - 49
27 Apr 24	N/A	39	2	2	3 - 17	7 - 69
28 Apr 24	N/A	38	2	2	2 - 7	5 - 63
29 Apr 24	N/A	44	2	2	3 - 7	5 - 56
30 Apr 24	N/A	65	2	2 - 3	3 - 10	4 - 83
Range	-	26 - 73	1 - 2	1 - 3	2 - 33	0 - 104*
Number of times (exceeded standard)	-	0	0	0	0	1
Total	-	30	30	30	30	30
Monitoring Hour	-	720	693	693	689	693
Ambient Air Quality Standard	-	120	120	300	170	100

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10 µm  
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement

MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : April

MONITORING STATION : Ban Chao Nua

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Apr 24	25.2	39.0	31.1	18	100	65	1,003	1,009	1,006	0.0
2 Apr 24	24.8	37.9	30.7	32	100	75	1,002	1,008	1,005	0.0
3 Apr 24	26.3	36.6	30.9	40	100	81	1,003	1,008	1,005	0.0
4 Apr 24	26.4	36.9	31.1	41	100	81	1,003	1,008	1,005	0.0
5 Apr 24	27.2	36.4	31.0	50	100	84	1,002	1,007	1,004	0.0
6 Apr 24	27.4	35.9	31.0	55	100	83	1,003	1,008	1,005	0.0
7 Apr 24	27.2	37.3	31.5	44	99	76	1,002	1,008	1,005	0.0
8 Apr 24	26.4	37.6	31.4	41	99	75	1,004	1,008	1,006	0.0
9 Apr 24	27.0	37.1	31.6	52	99	78	1,004	1,008	1,006	0.0
10 Apr 24	27.9	36.2	31.4	50	99	76	1,005	1,009	1,007	0.0
11 Apr 24	27.1	37.9	31.7	43	99	72	1,005	1,010	1,008	0.0
12 Apr 24	27.0	36.6	31.6	45	99	73	1,004	1,009	1,007	0.0
13 Apr 24	27.6	37.8	31.5	46	99	76	1,003	1,009	1,006	0.0
14 Apr 24	26.6	36.9	31.2	44	99	74	1,004	1,009	1,007	0.0
15 Apr 24	27.0	37.0	31.2	46	99	76	1,005	1,010	1,007	0.0
16 Apr 24	26.6	37.5	31.1	40	99	74	1,003	1,009	1,006	0.0
17 Apr 24	26.3	37.5	31.2	43	99	72	1,003	1,008	1,005	0.0
18 Apr 24	26.7	39.2	31.7	28	99	72	1,001	1,007	1,004	0.0
19 Apr 24	26.4	38.6	31.5	30	99	71	1,000	1,006	1,003	0.0
20 Apr 24	26.4	39.2	32.0	27	99	63	1,000	1,006	1,003	0.0
21 Apr 24	27.1	39.6	32.3	30	99	60	1,001	1,007	1,004	0.0
22 Apr 24	27.5	38.8	32.2	35	94	66	1,001	1,006	1,003	0.0
23 Apr 24	27.8	38.0	31.8	42	99	79	1,001	1,006	1,003	0.0
24 Apr 24	27.8	37.0	31.9	48	99	77	1,002	1,006	1,004	0.0
25 Apr 24	27.2	37.0	31.5	49	99	76	1,001	1,007	1,004	0.0
26 Apr 24	26.3	36.6	31.4	51	99	78	1,001	1,006	1,003	0.0
27 Apr 24	28.3	38.9	32.6	37	99	76	1,001	1,006	1,003	0.0
28 Apr 24	28.0	38.0	32.3	39	99	74	1,002	1,007	1,004	0.0
29 Apr 24	27.3	37.8	32.1	40	99	73	1,002	1,007	1,005	0.0
30 Apr 24	26.3	41.3	32.4	21	100	68	1,000	1,005	1,002	0.0
Total	24.8	41.3	31.6	18	100	74	1,000	1,010	1,005	0.0
Day	30			30			30			30
Hours	720			720			720			720

Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available

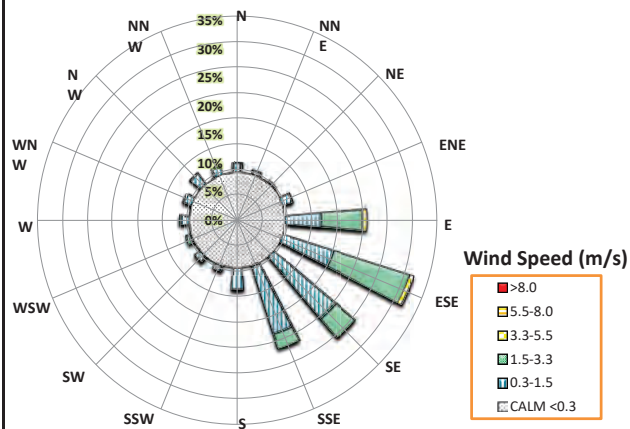


บริษัท ผลิตไฟฟ้าราชบุรี จำกัด

Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-30/April/2024

STATION : Ban Chao Nua



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	1.67%	0.00%	0.00%	0.00%	0.00%	1.67%
NNE	0.69%	0.14%	0.00%	0.00%	0.00%	0.83%
NE	0.28%	0.14%	0.00%	0.00%	0.00%	0.42%
ENE	1.67%	0.14%	0.00%	0.00%	0.00%	1.81%
E	6.25%	7.22%	0.83%	0.00%	0.00%	14.31%
ESE	9.31%	13.89%	0.83%	0.00%	0.00%	24.03%
SE	14.17%	4.44%	0.00%	0.00%	0.00%	18.61%
SSE	12.50%	2.78%	0.00%	0.00%	0.00%	15.28%
S	3.75%	0.14%	0.00%	0.00%	0.00%	3.89%
SSW	1.11%	0.00%	0.00%	0.00%	0.00%	1.11%
SW	1.25%	0.00%	0.00%	0.00%	0.00%	1.25%
WSW	0.42%	0.69%	0.00%	0.00%	0.00%	1.11%
W	1.39%	0.28%	0.00%	0.00%	0.00%	1.67%
WNW	1.39%	0.28%	0.00%	0.00%	0.00%	1.67%
NW	2.22%	0.14%	0.00%	0.00%	0.00%	2.36%
NNW	1.39%	0.28%	0.00%	0.00%	0.00%	1.67%
	59.44%	30.56%	1.67%	0.00%	0.00%	91.67%

No. of Monitored Hours	720	Hours	No. of Calm	60	Hours
No. of Monitored Days	30	Days	Calm (%)	8.33%	
Missing Data	0	Hours	Average Wind Speed	1.30	m/s
No. of Valid Data	720	Hours	Maximum Wind Speed	3.70	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction	ESE	

Equipment Status of Ban Chao Nua Monitoring Station "April 2024"

No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
4	บ้านชาวนาเหือง	SO <sub>2</sub>	Thermo Scientific	43i-BZSAB	1315757997	Normal	20210096	
		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDAA	CM23367032	Normal	20210248	
		O <sub>3</sub>	Thermo Scientific	49i-BZNA8	1315757999	Normal	20210100	
		DUST (TSP)	Thermo Scientific	5014i (in26-004-4)	CM13211006	Fail	20210094	Pressure Flow Alarm : High และไม่สามารถควบคุม Flow ได้ จึงส่งตรวจเช็คกับ บ.พีซีโอ ทำให้ไม่มีข้อมูลตรวจวัดระหว่างวันที่ 1-30 April 2024
		DUST (PM - 10)	Thermo Scientific	5014i (in26-004-3)	CM13211005	Fail	20210092	ใช้เครื่องตรวจวัดทดแทนจาก บ.พีซีโอ ติดตั้งทดแทนตั้งแต่วันที่ 6/3/2024 เนื่องจากเครื่องตรวจวัดประจำสถานี Pressure Flow Alarm : High และไม่สามารถควบคุม Flow ได้
		ZERO AIR	Thermo Scientific	1160 BHR2C	1315758010	Normal	20210102.1	
		CALIBRATOR	Thermo Scientific	146i-BB3BEAB	1315758001	Normal	20210102.3	
		DATA LOGGER(Envirodata)	ADVANTECH	IPC-510	K9A1478933	Normal	60110252.0000.1.3.4	
		Data LOGGER License	Envitech	Envidas Ultimate	281230	Normal	-	
		Switch Hub 16 port	TP-LINK	TL-SF1016	12886701720	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00082	Normal	-	
		Display LCD 20"	HP	P201	6CM31519JB	Normal	60110252.2	
		Keyboard Wireless	Logitech	K220	13145C105M68	Normal	-	
		Mouse Wireless	Logitech	M150	13135CM0XHD8	Normal	-	
		Standard Gas	Airgas	-	LL121560	Normal	-	
		WIND SPEED	LASTEM	DNA 827	BZ 1506562	Normal	20210013 0013	
		WIND DIRECTION	LASTEM	DNA 827	BZ 1506562	Normal	20210013 0014	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506501	Normal	20210013 0015	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506501	Normal		
		BAROMETRIC PRESSURE	LASTEM	DQA 208	-	Normal	20210013 0016	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	20210013 0018	

Preventive maintenance schedule,

Plan and actual

งานบำรุงรักษาสถานีตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง โรงไฟฟ้า บริษัท ราชบุรีเพาเวอร์ ประจำปี 2564

รายละเอียดงาน	มกราคม				กุมภาพันธ์				มีนาคม				เมษายน				พฤษภาคม				มิถุนายน				กรกฎาคม				สิงหาคม				กันยายน				ตุลาคม				พฤศจิกายน				ธันวาคม					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1. งานประเมินความเสี่ยงตามคู่มือเครื่องมือสารพัดใช้																																																		
- Single Point	✓		✓					✓																																										
- Multi Point																																																		
2. งานสำรวจและจัดทำความสะอาดอากาศด้านเคมีของสารพัดใช้ ก๊าซ SO <sub>2</sub> , NO <sub>x</sub> และ CO <sub>2</sub>																																																		
3. งานประเมินความเสี่ยงตามคู่มือเครื่อง Multi Gas Calibrator																																																		
- ศึกษาวิธีการของภาคฯ																																																		
4. งานสำรวจและประเมินสุขภาพผู้ปฏิบัติงาน																																																		
5. งานประเมินความเสี่ยงตามคู่มือเครื่องมือสารพัดใช้ รุ่น TSP และ PM10																																																		
- ศึกษาวิธีการของภาคฯ																																																		
6. งานสำรวจและจัดทำความสะอาดอากาศด้านอากาศเคมีของสารพัดใช้ TSP PM10																																																		
7. งานนำข้อมูลจากงานวิเคราะห์ภาคกลางมาขึ้น																																																		

✓

Plan

Actual

# Weekly report

Weekly Report _ AAQM-RB			
Site :	Ratchaburi Power Plant		Week No. 14
Date :	1-Apr-24	to 7-Apr-24	
ผู้ปฏิบัติงาน :	1) นาย พงศ์วิริยะ เชาวลิตร    2) _____ 3) _____    4) _____		
พชร. :	นาย สง่า กรุ่มรัมย์		
<u>สรุปรายละเอียดการปฏิบัติงาน</u>			
- Data logger ปกติ			
- สถานีโดยรอบ ปกติ			
- Standard gas 1550 psi			
- Replace filter high-volume (Run 4/04/2024)			
- Replace Filter 47 mm. of all analyzer			
Remark :			
		นาย พงศ์วิริยะ เชาวลิตร _____ ผู้ปฏิบัติงาน	
Date :		8-Apr-2024	







Calibration result

List Code for Spare Part & Consumable Part AAQM-RPCL (April 2024)

No.	Description	Use for Analyzer	S/N	Unit	Balan	Jan	Balan	Feb	Balan	Mar	Balan	Apr	Balan
1	I405DF Consumables PKG	PM-10/2.5 TEOM	59-010993	set	1	0	1	0	1	0	1	0	1
2	Pump Re-build kit	PM-10/2.5 TEOM	111754-00	set	2	0	2	0	2	0	2	0	2
3	Filter box of 20 TX40 TEOM	PM-10/2.5 TEOM	S7007225-0020	ea	28	1	27	1	26	1	25	1	24
4	Silica Gel <del>*(unit:500g)</del>	NO <sub>2</sub>	-	can	2	0	2	0	2	0	2	0	2
5	Pump Re-build kit 42IQ	NO <sub>2</sub>	117901-00	set	3	1	2	0	2	0	2	0	2
6	Sinter Filter(ECCH 01004701)	SO <sub>2</sub>	E0980001811	set	1	0	1	0	1	0	1	0	1
7	Rebuild Kit, External Pump Model-617CD22-194 C	SO <sub>2</sub> O <sub>3</sub>	SK61722	set	6	2	4	0	4	0	4	0	4
8	Filter Element, 5 Micron, Consumable (1pk = 50 ea) 47mm.	SO <sub>2</sub> NO <sub>2</sub> O <sub>3</sub>	F010006-01	ea	67	3	64	3	61	3	58	3	44
9	Glass Fiber Filter Media 8" x 10" (100Sheet/Box)(Brand/Whatman)	TSP High-Volume	EPM2000(GNGFG858X10-T)	SHEET	270	5	265	5	260	5	255	5	250
10	Silica/Quartz Micro Filter Filter Media 8" x 10" (50Sheet/Box)(Brand/Whatman)PM-10	PM-10 High-Volume	QMAIECHVQMASX10-T)	SHEET	322	5	317	5	312	5	307	5	302

## Calibration Sheet

Project : Ratchaburi Power Plant

Page 01

Site No. : 5      Station : Donsai      Date : 24 Apr 24      Start Time : 9.00

Analyzer	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>	Standard Gas	SO <sub>2</sub>	NO <sub>x</sub>	Remark
Manufacture	ECOTECH	Thermo	ECOTECH	Cylinder No.	D 636099		
Model	EC 9850B	42IQ-BBANN	EC 9810 B	Concentration	50.10	51.90	
Serial No.	05-1274	1181510016	06-0001	Multi Gas Calibrator			
Range	0 - 500 ppb	0 - 500 ppb	0 - 500 ppb	Model : Sabio(4010)	Serial No. : -		

Phase	Set Point	Desire Value			Monitor Value			Drift			% Drift			Factor
SO <sub>2</sub> Before Calibrate	Zero	0.0			3.0			-3.0			-0.6			Gain : 19.88
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			444.0			6.0			1.3			
SO <sub>2</sub> After Calibrate	Zero	0.0			2.0			-2.0			-0.4			Gain : 20.23
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			449.0			1.0			0.2			
		NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	
NO <sub>x</sub> Before Calibrate	Zero	0.0	0.0	0.0	1.6	0.2	1.8	-1.6	-0.2	-1.8	-0.3	0.0	-0.4	NO COEF : 1.068 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 0.999
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	150.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	458.0	1.0	459.0	-8.0	-1.0	-9.0	-1.8	-0.2	-2.0	
NO <sub>x</sub> After Calibrate	Zero	0.0	0.0	0.0	1.6	0.2	1.8	-1.6	-0.2	-1.8	-0.3	0.0	-0.4	NO COEF : 1.045 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 0.999
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	150.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	449.0	0.0	449.0	1.0	0.0	1.0	0.2	0.0	0.2	
O <sub>3</sub> Before Calibrate	Zero	0.0			0.0			0.0			0.0			Gain : 1.049
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			464.0			-14.0			-3.1			
O <sub>3</sub> After Calibrate	Zero	0.0			1.0			-1.0			-0.2			Gain : 1.036
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			450.0			0.0			0.0			
	Zero Drift = Desire Value - Monitor Valve							Span Drift = Desire Valve - Monitor Value						
	% Zero Drift = (Zero Drift/Full Scale) * 100							% Span Drift = (Span Drift/Desire Value) * 100						
	% Zero Drift +/- 3% Accept Data							% Span Drift +/- 5% Accept Data						

Calibrate by : Pongviriya

Finish Time : 10.00

Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Comment : \_\_\_\_\_

## Calibration Sheet

Project : Ratchaburi Power Plant

Page 02

Site No. : 5      Station : Donsai      Date : 30 Apr 24      Start Time : 8.30

Analyzer	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>	Standard Gas	SO <sub>2</sub>	NO <sub>x</sub>	Remark
Manufacture	ECOTECH	Thermo	ECOTECH	Cylinder No.	D 636099		
Model	EC 9850B	42IQ-BBANN	EC 9810 B	Concentration	50.10	51.90	
Serial No.	05-1274	1181510016	06-0001	Multi Gas Calibrator			
Range	0 - 500 ppb	0 - 500 ppb	0 - 500 ppb	Model : Sabio(4010)	Serial No. : -		

Phase	Set Point	Desire Value			Monitor Value			Drift			% Drift			Factor
SO <sub>2</sub> Before Calibrate	Zero	0.0			1.0			-1.0			-0.2			Gain : 20.23
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			450.0			0.0			0.0			
SO <sub>2</sub> After Calibrate	Zero	0.0			-			-			-			Gain : -
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			-			-			-			
		NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	
NO <sub>x</sub> Before Calibrate	Zero	0.0	0.0	0.0	2.1	0.1	2.2	-2.1	-0.1	-2.2	-0.4	0.0	-0.4	NO COEF : 1.045 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 0.999
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	151.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	451.0	0.0	451.0	-1.0	0.0	-1.0	-0.2	0.0	-0.2	
NO <sub>x</sub> After Calibrate	Zero	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	NO COEF : - NO <sub>2</sub> COEF : - NO <sub>x</sub> COEF : -
	Span(Lo.)	80.0	1.0	81.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	1.0	151.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	-	-	-	-	-	-	-	-	-	
O <sub>3</sub> Before Calibrate	Zero	0.0			1.0			-1.0			-0.2			Gain : 1.036
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			450.0			0.0			0.0			
O <sub>3</sub> After Calibrate	Zero	0.0			-			-			-			Gain : -
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			-			-			-			
Zero Drift = Desire Value - Monitor Valve								Span Drift = Desire Valve - Monitor Value						
% Zero Drift = (Zero Drift/Full Scale) * 100								% Span Drift = (Span Drift/Desire Value) * 100						
% Zero Drift +/- 3% Accept Data								% Span Drift +/- 5% Accept Data						

Calibrate by : Pongviriya

Finish Time : 10.00

Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Comment : \_\_\_\_\_



**บริษัท ราชบุรีเพาวเวอร์ จำกัด**  
**Ratchaburi Power Co., Ltd.**

**รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง**  
**บริษัท ราชบุรีเพาวเวอร์ จำกัด**

ประจำเดือนพฤษภาคม 2567

เสนอต่อ

บริษัท ราชบุรีเพาวเวอร์ จำกัด

โดย

ฝ่ายสิ่งแวดล้อมโครงการ

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาวเวอร์ จำกัด  
ประจำเดือนพฤษภาคม 2567

**รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง**  
**บริษัท ราชบุรีเพาวเวอร์ จำกัด**  
**เดือนพฤษภาคม 2567**

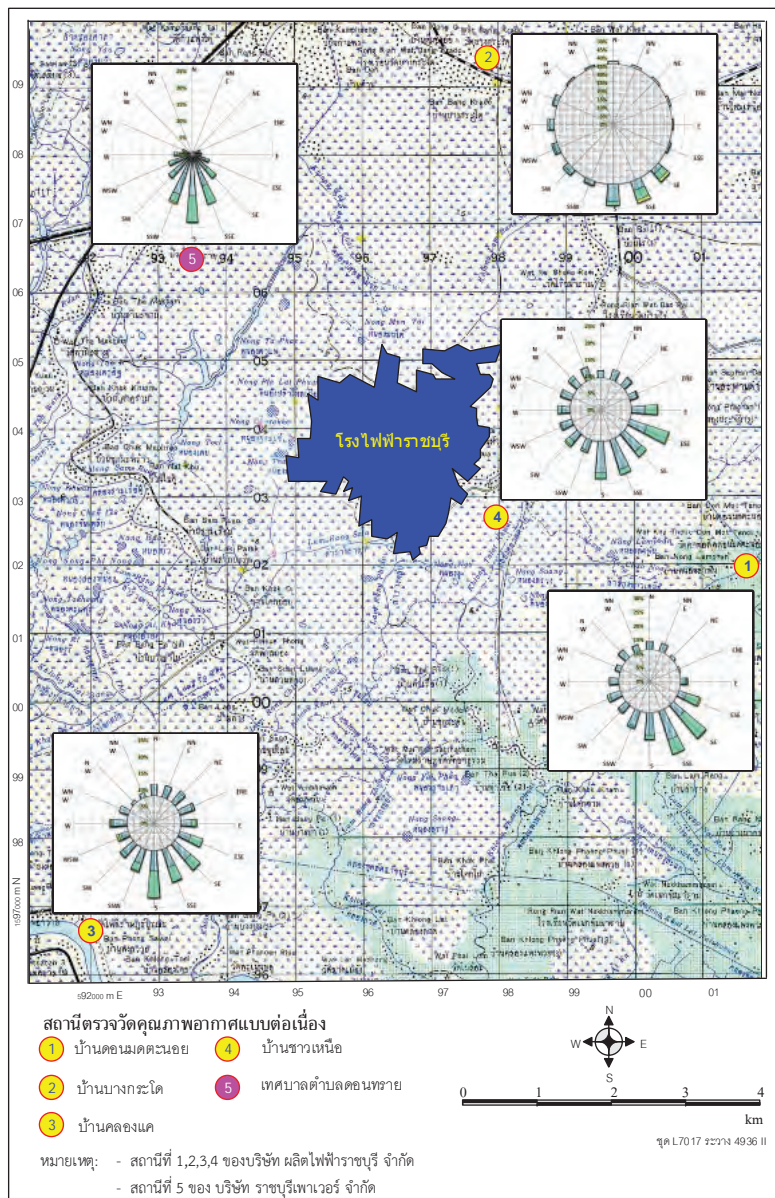
ผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง บริษัท ราชบุรีเพาวเวอร์ จำกัด ประจำเดือนพฤษภาคม 2567 จากสถานีตรวจวัดคุณภาพอากาศเทศบาลตำบลดอนทราย ผลการตรวจวัดดัชนีคุณภาพอากาศ พบว่า ฝุ่นละอองรวม ฝุ่นละอองขนาดไม่เกิน 10 ไมครอน ก๊าซซัลเฟอร์ไดออกไซด์ ก๊าซไนโตรเจนไดออกไซด์ และก๊าซโอโซน มีค่าอยู่ในเกณฑ์มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไปตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ยกเว้นค่าฝุ่นละอองขนาดไม่เกิน 2.5 ไมครอน ที่พบว่ามีค่าเกินเกณฑ์มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป โดยมีเกินค่ามาตรฐานฯ เป็นครั้งคราวดังนี้

- ฝุ่นละอองขนาดไม่เกิน 2.5 ไมครอน ระหว่างวันที่ 1-2, 5-6 พฤษภาคม 2567 มีค่า 37.6 - 41.4  $\mu\text{g}/\text{m}^3$

สรุปผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง (พฤษภาคม 2567)

สถานีตรวจวัด	ค่าเฉลี่ยในเวลา 24 ชั่วโมง				ค่าเฉลี่ยในเวลา 1 ชั่วโมง		
	( $\mu\text{g}/\text{m}^3$ )			(ppb)	(ppb)		
	TSP	PM-10	PM-2.5	SO <sub>2</sub>	SO <sub>2</sub>	NO <sub>2</sub>	O <sub>3</sub>
เทศบาลตำบลดอนทราย	15 - 81	7 - 62	6.6 - 41.4*	0 - 4	0 - 6	2 - 28	2 - 84
มาตรฐาน	330	120	37.5	120	300	170	100

หมายเหตุ : มาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป ตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 21 (พ.ศ. 2544) ฉบับที่ 24 (พ.ศ. 2547) ฉบับที่ 28 (พ.ศ. 2550) ฉบับที่ 33 (พ.ศ. 2552), ราชกิจจานุเบกษา เล่ม 139 ตอนพิเศษ 163ง (พ.ศ. 2565)



สถานีเทศบาลตำบลดอนทราย



## MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : May

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date						
	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)		O <sub>3</sub> (ppb)	O <sub>2</sub> (%)
	24-Hr. Avg.	1-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 May 24	0	0 - 1	5	3 - 10	3 - 73	N/A
2 May 24	2	0 - 3	6	2 - 28	6 - 54	N/A
3 May 24	1	0 - 2	4	3 - 10	6 - 65	N/A
4 May 24	1	0 - 2	4	2 - 9	6 - 63	N/A
5 May 24	3	2 - 5	5	2 - 12	3 - 53	N/A
6 May 24	2	2 - 4	4	2 - 9	7 - 61	N/A
7 May 24	2	2 - 3	5	3 - 8	5 - 51	N/A
8 May 24	2	2 - 6	7	4 - 14	9 - 77	N/A
9 May 24	2	1 - 4	6	2 - 17	5 - 61	N/A
10 May 24	3	2 - 4	5	2 - 15	3 - 50	N/A
11 May 24	3	3 - 4	7	2 - 12	16 - 49	N/A
12 May 24	3	2 - 4	6	3 - 11	5 - 63	N/A
13 May 24	4	3 - 5	8	4 - 13	5 - 64	N/A
14 May 24	3	1 - 4	7	4 - 12	7 - 74	N/A
15 May 24	2	1 - 4	8	3 - 20	3 - 84	N/A
16 May 24	3	2 - 5	7	3 - 18	2 - 65	N/A
17 May 24	2	1 - 3	6	3 - 13	5 - 53	N/A
18 May 24	2	1 - 3	7	3 - 13	2 - 43	N/A
19 May 24	2	1 - 3	6	3 - 13	2 - 56	N/A
20 May 24	2	1 - 4	7	4 - 13	3 - 44	N/A
21 May 24	3	2 - 4	8	3 - 13	2 - 30	N/A
22 May 24	1	1 - 2	5	3 - 9	3 - 44	N/A
23 May 24	1	0 - 2	7	3 - 13	3 - 32	N/A
24 May 24	1	1 - 2	4	2 - 8	3 - 33	N/A
25 May 24	1	1 - 2	5	2 - 10	2 - 27	N/A
26 May 24	1	0 - 2	5	2 - 8	2 - 25	N/A
27 May 24	2	1 - 3	5	3 - 8	2 - 25	N/A
28 May 24	1	1 - 3	5	3 - 10	2 - 29	N/A
29 May 24	1	0 - 3	5	2 - 9	2 - 24	N/A
30 May 24	3	2 - 4	4	2 - 9	2 - 27	N/A
31 May 24	3	3 - 4	3	2 - 7	3 - 35	N/A
Range	0 - 4	0 - 6	3 - 8	2 - 28	2 - 84	-
Number of times (exceeded standard)	0	0	0	0	0	-
Total	Day	31	31	31	31	-
Monitoring	Hour	738	738	738	738	-
Ambient Air Quality Standard		120	300	-	170	100

Remark :-

1) Standards	= Ambient Air Quality Standards of the National Environment Board
2) SO <sub>2</sub>	= Sulfur Dioxide
3) NO <sub>2</sub>	= Nitrogen Dioxide
4) O <sub>3</sub>	= Ozone
5) N/A	= Data not Available
6) *	= Exceeding air quality standard
7) -	= Not Measurement



## MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

MONTH : May

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date	Concentration (24-Hr Avg)				
	TSP (µg/m <sup>3</sup> )		PM-10 (µg/m <sup>3</sup> )		PM-2.5 (µg/m <sup>3</sup> )
	Micro balance	Hi volume	Micro balance	Hi volume	Micro balance
1 May 24	81		62		41.4*
2 May 24	80		59		39.8*
3 May 24	75		54		37.4
4 May 24	70	60	50	34	35.2
5 May 24	71		53		37.6*
6 May 24	71		55		38.9*
7 May 24	69		43		23.9
8 May 24	56		38		26.3
9 May 24	42		31		23.4
10 May 24	41	37	28	19	19.5
11 May 24	32		23		16.5
12 May 24	32		23		17.2
13 May 24	44		30		18.9
14 May 24	42		32		25.1
15 May 24	49		39		32.1
16 May 24	40	41	25	22	19.3
17 May 24	38		23		17.7
18 May 24	30		20		15.5
19 May 24	28		17		13.0
20 May 24	33		22		16.0
21 May 24	25		14		10.1
22 May 24	23	17	16	9	12.6
23 May 24	21		16		13.0
24 May 24	18		12		8.5
25 May 24	26		15		8.8
26 May 24	25		17		10.0
27 May 24	31		17		9.5
28 May 24	32	22	16	15	11.7
29 May 24	25		15		10.6
30 May 24	25		12		9.3
31 May 24	15		7		6.6
Range	15 - 81	17 - 60	7 - 62	9 - 34	6.6 - 41.4*
Number of times (exceeded standard)	0	0	0	0	
Total	Day	31	5	31	5
Monitoring	Hour	739	120	744	120
Ambient Air Quality Standard		330	330	120	120

Remark :-

1) Standards	= Ambient Air Quality Standards of the National Environment Board
2) TSP	= Total Suspended Particulate
3) PM-10	= Particulate Matter less than 10 µm
4) PM-2.5	= Particulate Matter with diameter of less than 2.5 micron



# MONTHLY REPORT

## METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : May

MONITORING STATION : Donsai Sub-district

YEAR : 2024

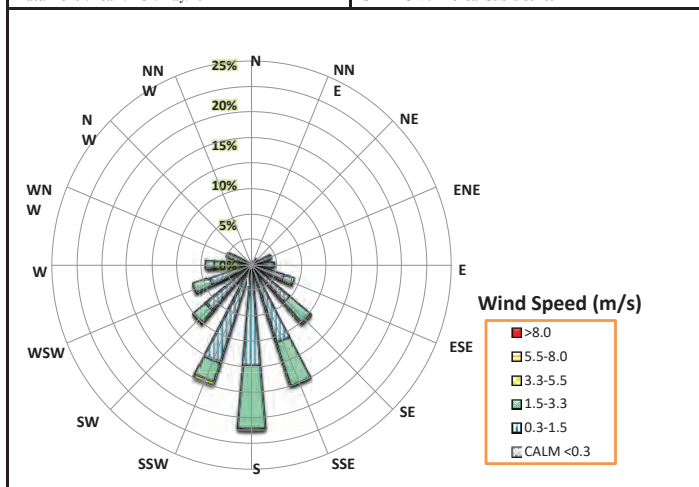
Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge Sum. (mm)
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	
1 May 24	28.4	42.1	34.4	40	94	68	1,000	1,002	1,001	0.0
2 May 24	28.8	40.2	34.0	49	91	73	1,001	1,002	1,001	18.6
3 May 24	29.2	42.8	34.5	40	94	72	1,000	1,005	1,002	0.8
4 May 24	29.6	42.9	34.6	42	95	72	1,000	1,005	1,002	0.0
5 May 24	28.7	42.6	34.4	39	91	68	1,000	1,004	1,002	0.0
6 May 24	29.4	40.8	33.4	49	91	74	1,000	1,006	1,002	0.0
7 May 24	27.9	36.5	30.5	59	92	79	1,003	1,010	1,006	0.0
8 May 24	27.6	40.1	32.5	45	90	71	1,001	1,009	1,005	14.8
9 May 24	27.7	40.6	33.4	47	96	73	1,001	1,007	1,004	0.0
10 May 24	28.8	39.6	33.0	51	95	76	1,002	1,009	1,005	0.0
11 May 24	27.4	37.7	30.9	58	95	80	1,004	1,011	1,007	4.2
12 May 24	27.0	40.7	32.8	47	96	73	1,001	1,009	1,005	0.0
13 May 24	26.9	39.9	31.7	53	100	79	1,001	1,007	1,004	3.2
14 May 24	26.6	38.2	31.6	52	99	78	1,002	1,008	1,005	0.0
15 May 24	28.4	41.3	34.1	44	94	70	1,001	1,008	1,005	0.0
16 May 24	29.3	39.5	32.6	50	93	78	1,001	1,007	1,004	0.0
17 May 24	28.7	39.5	31.8	51	94	82	1,000	1,007	1,003	11.6
18 May 24	27.8	39.1	32.4	51	97	77	1,000	1,004	1,002	0.0
19 May 24	27.2	41.0	32.6	48	100	78	1,000	1,003	1,001	2.8
20 May 24	27.5	39.8	30.8	52	100	87	1,000	1,002	1,001	17.2
21 May 24	26.7	37.8	30.1	57	100	88	1,000	1,007	1,003	10.2
22 May 24	26.7	37.1	30.3	63	100	87	1,002	1,009	1,006	8.4
23 May 24	26.8	33.7	28.5	76	100	95	1,002	1,007	1,005	10.4
24 May 24	26.8	36.0	30.4	64	100	86	1,002	1,008	1,005	0.4
25 May 24	26.1	36.1	29.6	62	100	88	1,004	1,009	1,006	58.4
26 May 24	25.2	38.3	29.7	63	100	88	1,004	1,011	1,007	22.8
27 May 24	26.0	38.5	31.8	53	100	80	1,003	1,008	1,006	0.0
28 May 24	26.5	39.6	32.6	52	98	76	1,003	1,008	1,006	0.0
29 May 24	28.5	38.3	33.0	53	92	70	1,002	1,007	1,005	0.0
30 May 24	26.7	39.5	31.7	50	100	79	1,001	1,008	1,005	59.8
31 May 24	26.2	37.9	30.2	60	100	87	1,001	1,008	1,005	43.4
Total	25.2	42.9	32.1	39	100	78	1,000	1,011	1,004	287.0
Day	31			31			31			31
Hours	744			744			643			744

Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



Date/Month/Year : 1-31/May/2024

STATION : Donsai Sub-district



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NNE	0.27%	0.00%	0.00%	0.00%	0.00%	0.27%
NE	0.81%	0.00%	0.00%	0.00%	0.00%	0.81%
ENE	2.15%	0.40%	0.00%	0.00%	0.00%	2.55%
E	2.69%	0.13%	0.00%	0.00%	0.00%	2.82%
ESE	4.17%	1.21%	0.13%	0.00%	0.00%	5.51%
SE	6.05%	3.36%	0.27%	0.00%	0.00%	9.68%
SSE	10.08%	5.78%	0.00%	0.00%	0.00%	15.86%
S	12.50%	7.93%	0.13%	0.00%	0.00%	20.56%
SSW	12.77%	2.55%	0.40%	0.00%	0.00%	15.73%
SW	7.39%	2.02%	0.13%	0.00%	0.00%	9.54%
WSW	5.38%	2.28%	0.00%	0.00%	0.00%	7.66%
W	4.57%	1.08%	0.00%	0.00%	0.00%	5.65%
WNW	3.09%	0.13%	0.00%	0.00%	0.00%	3.23%
NW	0.13%	0.00%	0.00%	0.00%	0.00%	0.13%
NNW	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	72.04%	26.88%	1.08%	0.00%	0.00%	100.00%

No. of Monitored Hours	744	Hours	No. of Calm	0	Hours
No. of Monitored Days	31	Days	Calm (%)	0.00%	
Missing Data	0	Hours	Average Wind Speed	1.03	m/s
No. of Valid Data	744	Hours	Maximum Wind Speed	5.40	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction	S	



Equipment Status of Donsai Sub-district Monitoring Station "May 2024"							
No.	Site	Analyzer	Brand	Model	S/N	Status	Description
5	ดอนทราย	SO <sub>2</sub>	Ecotech	EC98508	05-1274	Normal	
		O <sub>3</sub>	Ecotech	EC98108	06-0001	Normal	
		NO <sub>2</sub>	Thermo	42iQ	-	Normal	
		DUST (PM - 10/2.5)	Thermo	1405DF	1405A248712190	Normal	
		DUST (TSP)	Thermo	1405	1405A250862311	Normal	
		O <sub>2</sub>	Riken keiki	OX-600		Fail	- Board Fail ไม่สามารถเชื่อมต่อได้ อยู่ระหว่างจัดซื้อเครื่องใหม่ทดแทน
		Hivolume air sampler(PM-10)	Ecotech	HV53000	05-1104	Normal	
		Hivolume air sampler(TSP)	Ecotech	HV53000	05-1103	Normal	
		WIND SPEED	Met One	010C	E7612	Normal	
		WIND DIRECTION	Met One	020C	F1128	Normal	
		AT/RH	Met One	083D-1-35	F1320	Normal	
		BAROMATIC PRESSURE	Met One	090D	F1231	Normal	
		Raingauge	Met One	-	-	Normal	
		Multi Translator	Met One	2270	F1284	Normal	
		Data Logger	ADVANTECH	IPC-510		Normal	
		Multi Gas Calibration	SABIO	4010	10260306	Normal	
		Zero Air Generator	SABIO	1001	030614768	Normal	
		Modem	Tornado	FMV56.0E	4088712	Normal	
		Air Condition 1	Daikin	AR18DV2S	E003687	Normal	
		Air Condition 2	Daikin	AR18DV2S	E002831	Normal	

ภาคผนวก

สถานีบ้านดอนมดตะนอย  
(สถานที่ตรวจวัด : วัดนักบุญอันโตนิโอ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : May

MONITORING STATION : Ban Don Mod Tanol

YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 May 24	65	N/A	2	2 - 3	3 - 7	1 - 75
2 May 24	64	N/A	2	2	2 - 10	6 - 48
3 May 24	65	57	2	2	3 - 7	7 - 65
4 May 24	57	57	2	2	3 - 6	10 - 69
5 May 24	62	59	2	2 - 3	3 - 10	3 - 65
6 May 24	55	53	2	2	3 - 6	11 - 56
7 May 24	50	40	2	2 - 4	3 - 10	8 - 57
8 May 24	38	36	2	2 - 5	3 - 12	7 - 89
9 May 24	35	29	2	2 - 3	2 - 10	8 - 67
10 May 24	32	28	2	2 - 4	3 - 10	7 - 52
11 May 24	33	30	2	2 - 3	3 - 9	9 - 55
12 May 24	31	27	2	2 - 3	2 - 7	12 - 66
13 May 24	38	37	2	2	2 - 10	2 - 67
14 May 24	33	26	2	2	3 - 15	13 - 80
15 May 24	45	40	2	2 - 3	3 - 13	3 - 97
16 May 24	28	24	2	2	2 - 9	8 - 61
17 May 24	29	25	2	2 - 3	2 - 8	10 - 54
18 May 24	26	23	2	2	2 - 12	3 - 53
19 May 24	24	21	2	2 - 3	2 - 8	7 - 62
20 May 24	28	19	2	2	2 - 11	4 - 50
21 May 24	22	20	2	2 - 3	3 - 9	2 - 56
22 May 24	23	17	2	2	2 - 7	4 - 55
23 May 24	16	12	2	2	2 - 8	5 - 40
24 May 24	22	16	2	2 - 3	2 - 10	4 - 42
25 May 24	21	15	2	2	2 - 8	2 - 32
26 May 24	24	16	2	2	2 - 6	2 - 34
27 May 24	23	19	2	2	2 - 7	3 - 33
28 May 24	28	22	2	2	3 - 7	2 - 45
29 May 24	23	16	2	2 - 4	1 - 8	2 - 38
30 May 24	23	18	2	2 - 3	2 - 7	2 - 38
31 May 24	19	12	2	2 - 3	2 - 8	5 - 44
Range	16 - 65	12 - 59	2	2 - 5	1 - 15	1 - 97
Number of times (exceeded standard)	0	0	0	0	0	0
Total	Day	31	29	31	31	31
Monitoring	Hour	740	693	714	714	714
Ambient Air Quality Standard		330	120	120	300	170
					100	

Remark :-

1) Standards = Ambient Air Quality Standards of the National Environment Board

2) TSP = Total Suspended Particulate

3) PM-10 = Particulate Matter less than 10  $\mu\text{m}$

4) SO<sub>2</sub> = Sulfur Dioxide

5) NO<sub>2</sub> = Nitrogen Dioxide

6) N/A = Data not Available

7) \* = Exceeding air quality standard

8) - = Not Measurement



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

## MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : May

MONITORING STATION : Ban Don Mod Tanoi

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge Sum. (mm)
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	
1 May 24	27.7	40.4	32.9	28	99	68	1,002	1,007	1,005	0.0
2 May 24	27.7	38.9	32.7	39	99	72	1,004	1,008	1,006	0.0
3 May 24	27.8	40.6	32.7	33	99	73	1,005	1,010	1,007	0.0
4 May 24	28.7	40.2	33.1	37	99	69	1,004	1,010	1,007	0.0
5 May 24	27.7	41.8	33.0	29	99	68	1,004	1,009	1,006	0.0
6 May 24	28.3	39.4	32.0	42	99	74	1,006	1,010	1,008	0.0
7 May 24	26.8	34.3	28.9	55	99	82	1,009	1,013	1,011	0.0
8 May 24	26.4	38.6	31.0	33	99	71	1,007	1,012	1,010	0.0
9 May 24	26.5	39.4	31.9	36	99	71	1,007	1,011	1,009	0.2
10 May 24	27.8	38.6	31.9	40	99	75	1,008	1,012	1,010	0.0
11 May 24	27.0	36.8	30.7	47	99	80	1,009	1,013	1,011	0.0
12 May 24	25.9	39.4	31.7	36	99	69	1,007	1,012	1,010	0.0
13 May 24	26.3	37.8	30.7	46	99	80	1,007	1,011	1,009	2.0
14 May 24	25.4	36.9	30.5	39	99	76	1,007	1,012	1,010	0.0
15 May 24	27.1	40.5	32.9	33	99	68	1,007	1,012	1,009	0.0
16 May 24	28.5	39.1	31.4	37	99	80	1,007	1,011	1,009	0.0
17 May 24	27.8	37.2	31.5	47	99	76	1,006	1,011	1,009	0.0
18 May 24	27.0	38.6	31.6	36	99	76	1,003	1,009	1,007	0.0
19 May 24	26.5	40.1	31.6	37	99	76	1,002	1,008	1,005	3.2
20 May 24	26.6	38.7	29.8	43	99	88	1,003	1,007	1,005	7.6
21 May 24	25.9	36.2	28.8	50	100	90	1,005	1,009	1,007	10.2
22 May 24	25.8	35.4	29.3	53	100	87	1,004	1,010	1,007	7.4
23 May 24	25.7	32.2	27.5	69	100	95	1,005	1,008	1,007	26.4
24 May 24	25.7	34.8	29.3	55	100	85	1,005	1,009	1,007	0.2
25 May 24	25.6	35.9	28.8	51	100	87	1,006	1,010	1,008	4.2
26 May 24	23.8	36.3	28.7	54	100	86	1,006	1,010	1,009	17.6
27 May 24	24.8	37.3	30.3	44	100	78	1,005	1,009	1,008	0.2
28 May 24	25.9	36.8	31.1	47	100	77	1,005	1,009	1,007	12.0
29 May 24	27.5	36.0	31.4	44	99	69	1,004	1,008	1,007	0.0
30 May 24	25.9	37.1	30.5	45	100	78	1,004	1,009	1,007	11.4
31 May 24	25.3	36.5	29.2	49	100	84	1,004	1,009	1,007	14.2
Total	23.8	41.8	30.9	28	100	78	1,002	1,013	1,008	116.8
Day	31			31			31			31
Hours	743			743			743			743

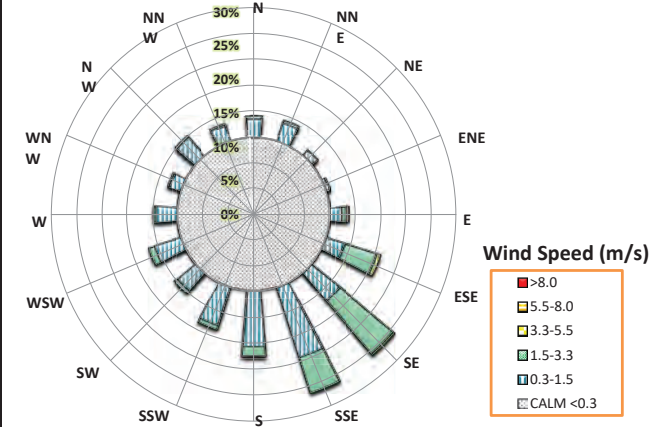
Remarks :- P = Power Fail ,F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-31/May/2024

STATION : Ban Don Mod Tanoi



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	2.83%	0.40%	0.00%	0.00%	0.00%	3.23%
NNE	2.83%	0.40%	0.00%	0.00%	0.00%	3.23%
NE	1.08%	0.00%	0.00%	0.00%	0.00%	1.08%
ENE	0.54%	0.00%	0.00%	0.00%	0.00%	0.54%
E	1.62%	0.67%	0.13%	0.27%	0.00%	2.69%
ESE	2.83%	4.98%	0.54%	0.00%	0.00%	8.34%
SE	5.38%	10.23%	0.27%	0.00%	0.00%	15.88%
SSE	10.90%	5.52%	0.00%	0.00%	0.00%	16.42%
S	8.21%	1.48%	0.13%	0.00%	0.00%	9.83%
SSW	5.92%	0.67%	0.00%	0.00%	0.00%	6.59%
SW	3.36%	0.54%	0.00%	0.00%	0.00%	3.90%
WSW	4.04%	0.94%	0.00%	0.00%	0.00%	4.98%
W	3.10%	0.40%	0.00%	0.00%	0.00%	3.50%
WNW	1.75%	0.27%	0.00%	0.00%	0.00%	2.02%
NW	3.50%	0.27%	0.00%	0.00%	0.00%	3.77%
NNW	2.42%	0.27%	0.00%	0.00%	0.00%	2.69%
	60.30%	27.05%	1.08%	0.27%	0.00%	88.69%

No. of Monitored Hours	744	Hours	No. of Calm	84	Hours
No. of Monitored Days	31	Days	Calm (%)	11.31%	
Missing Data	1	Hours	Average Wind Speed	1.17	m/s
No. of Valid Data	743	Hours	Maximum Wind Speed	6.30	m/s
Prevailing Wind Direction				SSE	

Equipment Status of Ban Don Mod Tanoi Monitoring Station "May 2024"								
No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No.	Description
1	บ้านดอนมดตะนอย	SO <sub>2</sub>	Thermo Scientific	43i-BZSCA	1162850018	Normal	20511164	
	(วัดน้ำบุญญา)	NO <sub>2</sub>	Thermo Scientific	42i-BZMSDCA	1162850016	Normal	20511166	
		O <sub>3</sub>	Thermo Scientific	49i-B2NCA	1162850020	Normal	20511168	
		DUST (TSP)	Thermo Scientific	5014i/5030i	CM16461002	Normal	20511172	
		DUST (PM - 10)	Thermo Scientific	5014i/5030i	CM16471015	Normal	20511170	-Foil ซ้ำชุด ทำให้งานไม่มีข้อมูลตรวจวัดระหว่างวันที่
								1 - 2 May 2024
		ZERO AIR	Thermo Scientific	1160 BHP2N	1162850022	Normal	20511174	
		CALIBRATOR	Thermo Scientific	146i-BB6BFCA	1162850024	Normal	20511176	
		DATA LOGGER	ADVANTECH	IPC-50	KMA1478934	Normal	60110253.1.3.4	
		Switch Hub 16 port	TP-LINK	TL-SF1016	12B86700507	Normal	-	
		UPS	Power Matic	TR-3000	13KEI00080	Normal	-	
		Display LCD 20"	hp	P201	6CM3151950	Normal	60110253.2	
		Keyboard	Logitech	K220	13145C105F28	Normal	-	
		Mouse	Logitech	M150	-	Normal	-	
		Standard Gas	Airgas	-	LL111365	Normal	-	
		WIND SPEED	LASTEM	DNA-827	-	Normal	-	
		WIND DIRECTION	LASTEM					
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506500	Normal	-	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506500	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404016	Normal	-	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	-	

สถานีบ้านบางกะโด  
(สถานที่ตรวจวัด : วัดบางกะโด)

MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : May

MONITORING STATION : Wat Bang Gado

YEAR : 2024

Date	Concentration					
	TSP (µg/m <sup>3</sup> )	PM-10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 May 24	80	63	3	2 - 4	0 - 8	7 - 73
2 May 24	76	57	2	2 - 3	1 - 7	9 - 55
3 May 24	70	57	2	2 - 3	2 - 6	9 - 71
4 May 24	67	45	2	2 - 3	2 - 6	12 - 67
5 May 24	79	57	3	2 - 4	1 - 11	9 - 56
6 May 24	72	52	2	2 - 4	1 - 9	15 - 60
7 May 24	58	39	2	2 - 3	2 - 9	10 - 55
8 May 24	53	38	3	2 - 5	3 - 11	13 - 86
9 May 24	47	29	3	2 - 3	1 - 14	11 - 63
10 May 24	43	26	2	2 - 5	1 - 11	11 - 59
11 May 24	41	22	2	2 - 3	1 - 9	20 - 52
12 May 24	38	29	2	2 - 3	2 - 11	10 - 66
13 May 24	51	26	2	2 - 3	2 - 15	7 - 69
14 May 24	41	24	3	2 - 3	2 - 15	15 - 76
15 May 24	58	38	3	2 - 3	2 - 17	10 - 89
16 May 24	41	24	2	2 - 3	2 - 10	10 - 58
17 May 24	40	23	2	2 - 3	1 - 11	16 - 56
18 May 24	39	25	2	2 - 3	2 - 11	7 - 46
19 May 24	38	19	2	2 - 4	1 - 9	8 - 61
20 May 24	38	23	2	2 - 2	1 - 11	7 - 46
21 May 24	36	20	2	2 - 3	1 - 17	5 - 60
22 May 24	33	23	2	2 - 2	4 - 10	8 - 72
23 May 24	29	11	2	2 - 3	1 - 11	5 - 34
24 May 24	29	15	2	2 - 3	1 - 11	0 - 36
25 May 24	32	16	2	2 - 3	2 - 8	0 - 31
26 May 24	32	15	2	2 - 3	2 - 7	0 - 38
27 May 24	37	22	3	2 - 3	2 - 7	0 - 32
28 May 24	39	23	3	2 - 3	1 - 7	0 - 34
29 May 24	35	21	3	2 - 3	2 - 10	2 - 41
30 May 24	33	13	3	3 - 4	0 - 9	6 - 28
31 May 24	26	14	3	3 - 4	0 - 5	1 - 42
Range	26 - 80	11 - 63	2 - 3	2 - 5	0 - 17	0 - 89
Number of times (exceeded standard)	0	0	0	0	0	0
Total Day	31	31	31	31	31	31
Monitoring Hour	735	738	714	714	715	714
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10 µm  
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement

MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : May

MONITORING STATION : Wat Bang Gado

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 May 24	28.0	39.4	32.7	33	89	63	1,001	1,007	1,004	0.0
2 May 24	28.1	37.3	32.4	45	86	67	1,003	1,007	1,005	0.0
3 May 24	28.5	39.2	32.5	37	89	68	1,004	1,010	1,007	0.0
4 May 24	29.1	39.1	32.8	38	89	66	1,003	1,009	1,006	0.0
5 May 24	28.0	39.8	32.7	30	86	62	1,003	1,009	1,006	0.0
6 May 24	28.9	38.1	32.0	45	85	69	1,005	1,010	1,008	0.0
7 May 24	27.2	34.1	29.1	55	84	73	1,008	1,013	1,010	0.0
8 May 24	26.5	37.0	30.9	37	87	66	1,006	1,012	1,010	0.4
9 May 24	26.9	37.4	31.7	41	91	67	1,006	1,011	1,009	0.0
10 May 24	28.1	36.5	31.5	47	90	71	1,007	1,012	1,010	0.0
11 May 24	26.9	35.5	29.6	52	89	75	1,009	1,013	1,011	6.6
12 May 24	26.2	37.8	31.4	40	91	67	1,006	1,012	1,010	0.0
13 May 24	26.3	36.9	30.4	48	96	74	1,006	1,011	1,009	2.0
14 May 24	26.0	36.2	30.5	45	94	72	1,007	1,012	1,010	0.0
15 May 24	27.6	38.7	32.8	37	91	63	1,006	1,011	1,009	0.0
16 May 24	28.9	37.1	31.3	44	86	72	1,006	1,010	1,009	0.0
17 May 24	28.4	36.6	31.2	48	88	72	1,006	1,011	1,008	0.0
18 May 24	27.6	36.7	31.3	44	90	70	1,003	1,009	1,007	0.0
19 May 24	26.8	38.6	31.3	41	96	73	1,001	1,007	1,005	1.8
20 May 24	27.0	37.3	29.9	45	98	80	1,003	1,007	1,005	2.4
21 May 24	26.2	36.0	29.1	50	99	85	1,004	1,009	1,006	7.6
22 May 24	26.2	34.6	29.3	55	99	84	1,004	1,010	1,007	5.8
23 May 24	25.5	31.4	27.6	73	99	93	1,005	1,008	1,007	40.4
24 May 24	26.5	33.8	29.4	58	99	81	1,005	1,009	1,007	0.0
25 May 24	25.9	34.5	28.8	56	99	85	1,006	1,010	1,008	15.2
26 May 24	24.5	34.8	28.7	57	99	84	1,006	1,011	1,009	16.0
27 May 24	25.5	36.2	30.5	48	99	76	1,005	1,009	1,008	0.0
28 May 24	26.3	36.0	31.0	48	95	73	1,005	1,009	1,007	0.0
29 May 24	27.7	35.5	31.6	48	92	66	1,004	1,008	1,007	0.0
30 May 24	26.1	36.4	30.3	46	99	75	1,004	1,009	1,007	47.2
31 May 24	25.9	35.4	29.2	55	99	83	1,004	1,009	1,007	15.2
Total	24.5	39.8	30.8	30	99	73	1,001	1,013	1,008	160.6
Day	31			31			31			31
Hours	743			743			743			743

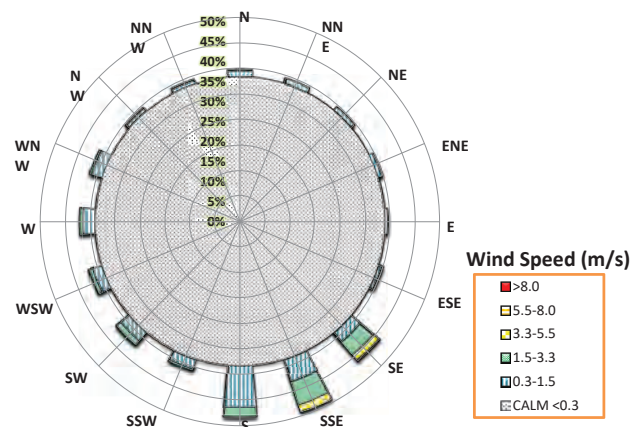
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-31/May/2024

STATION : Wat Bang Gado



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	1.48%	0.40%	0.00%	0.00%	0.00%	1.88%
NNE	1.34%	0.13%	0.00%	0.00%	0.00%	1.48%
NE	1.21%	0.00%	0.00%	0.00%	0.00%	1.21%
ENE	1.08%	0.13%	0.00%	0.00%	0.00%	1.21%
E	0.54%	0.27%	0.00%	0.00%	0.00%	0.81%
ESE	0.94%	0.27%	0.13%	0.00%	0.00%	1.34%
SE	3.09%	4.30%	1.88%	0.27%	0.00%	9.54%
SSE	5.65%	6.18%	2.02%	0.00%	0.00%	13.84%
S	10.22%	2.42%	0.13%	0.00%	0.00%	12.77%
SSW	2.42%	0.40%	0.00%	0.00%	0.00%	2.82%
SW	2.82%	1.21%	0.13%	0.00%	0.00%	4.17%
WSW	2.42%	0.81%	0.13%	0.00%	0.00%	3.36%
W	2.96%	0.94%	0.00%	0.00%	0.00%	3.90%
WNW	2.55%	0.54%	0.00%	0.00%	0.00%	3.09%
NW	0.81%	0.40%	0.00%	0.00%	0.00%	1.21%
NNW	0.81%	0.40%	0.00%	0.00%	0.00%	1.21%
	40.32%	18.82%	4.44%	0.27%	0.00%	63.84%
No. of Monitored Hours	744	Hours	No. of Calm	269	Hours	
No. of Monitored Days	31	Days	Calm (%)		36.16%	
Missing Data	0	Hours	Average Wind Speed	1.00	m/s	
No. of Valid Data	744	Hours	Maximum Wind Speed	6.10	m/s	
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction		SSE	

Equipment Status of Wat Bang Gado Monitoring Station "May 2024"

No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
2	วัดบางกะโด	SO <sub>2</sub>	Thermo Scientific	43i-BZSAB	1315757998	Normal	20210097	
		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDAB	1315757995	Normal	20210099	
		O <sub>3</sub>	Thermo Scientific	49i-BZNAB	1315758000	Normal	20210101	
		DUST (TSP)	Thermo Scientific	5014i (in26-004-2)	CM13211004	Normal	20210095	
		DUST (PM - 10)	Thermo Scientific	5014i (in26-004-1)	CM13211003	Normal	20210093	
		ZERO AIR	Thermo Scientific	1160 BHR2C	1315758003	Normal	20210102.2	
		CALIBRATOR	Thermo Scientific	146i-BB3BEAB	1315758002	Normal	20210102.4	
		DATA LOGGER(Envirodis)	ADVANTECH	IPC-510	KMA1478929	Normal	60110254.0.1.3.4	
		Ethernet Switch	TP-LINK	TL-SF1016	12B86700508	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00077	Normal	-	
		Display LCD 20"	HP	P201	6CM3020GC2	Normal	60110254.2	
		KeyBoard Wireless	Logitech	K220	13145C105MA8	Normal	-	
		Mouse Wireless	Logitech	M150	13135CM0XGW8	Normal	-	
		Standard Gas	Airgas	-	LL156436	Normal	-	
		WIND SPEED	LASTEM	DNA 827	BZ 1506563	Normal	-	
		WIND DIRECTION	LASTEM	DNA 827	BZ 1506563	Normal	-	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506498	Normal	-	
		RELATIVE HUMIDITY	LASTEM	Sensor: DMA672.1	Sensor: 18080122	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404015	Normal	-	
		RAIN GAUGE	LASTEM	DQA 230.1	21120166	Normal	-	

สถานีบ้านคลองแค  
(สถานที่ตรวจวัด : วัดโพธิ์ราษฎร์บูรณะ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd. MONTH : May  
MONITORING STATION : Ban Klong Klae YEAR : 2024

Date	Concentration					
	TSP (µg/m <sup>3</sup> )	PM-10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 May 24	67	59	3	2 - 4	3 - 9	7 - 73
2 May 24	69	62	4	3 - 4	2 - 13	8 - 52
3 May 24	57	54	2	2 - 3	2 - 9	6 - 61
4 May 24	57	50	3	2 - 3	3 - 7	11 - 66
5 May 24	64	58	3	2 - 5	2 - 10	7 - 54
6 May 24	64	59	3	2 - 4	2 - 9	10 - 56
7 May 24	72	58	3	2 - 4	2 - 10	5 - 52
8 May 24	37	30	3	2 - 5	3 - 9	10 - 75
9 May 24	36	31	3	2 - 4	2 - 14	9 - 55
10 May 24	28	23	2	2 - 3	2 - 8	8 - 44
11 May 24	26	25	2	2 - 3	2 - 8	12 - 45
12 May 24	28	23	3	2 - 4	2 - 7	13 - 62
13 May 24	44	39	2	1 - 3	2 - 14	4 - 56
14 May 24	23	20	1	1	3 - 11	18 - 71
15 May 24	42	39	1	1 - 2	3 - 15	5 - 89
16 May 24	29	24	1	1 - 2	2 - 14	4 - 62
17 May 24	24	23	2	1 - 3	1 - 10	10 - 55
18 May 24	28	24	2	1 - 4	2 - 12	5 - 50
19 May 24	25	24	2	1 - 3	2 - 12	4 - 57
20 May 24	22	21	1	1 - 2	1 - 13	3 - 42
21 May 24	21	16	1	1 - 2	3 - 11	3 - 47
22 May 24	19	17	1	1 - 2	2 - 10	4 - 50
23 May 24	15	14	2	1 - 2	2 - 11	7 - 38
24 May 24	14	12	2	1 - 2	1 - 9	6 - 36
25 May 24	17	14	1	1 - 2	2 - 11	3 - 32
26 May 24	18	17	1	1	2 - 9	2 - 30
27 May 24	20	15	1	1 - 2	1 - 7	3 - 28
28 May 24	22	21	3	1 - 4	2 - 8	3 - 41
29 May 24	22	18	3	2 - 4	2 - 10	3 - 23
30 May 24	25	16	2	1 - 3	1 - 11	2 - 32
31 May 24	11	10	1	0 - 2	2 - 8	5 - 41
Range	11 - 72	10 - 62	1 - 4	0 - 5	1 - 15	2 - 89
Number of times (exceeded standard)	0	0	0	0	0	0
Total	31	31	31	31	31	31
Monitoring	Hour	737	730	706	706	706
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-  
1) Standards = Ambient Air Quality Standards of the National Environment Board  
2) TSP = Total Suspended Particulate  
3) PM-10 = Particulate Matter less than 10  $\mu\text{m}$   
4) SO<sub>2</sub> = Sulfur Dioxide  
5) NO<sub>2</sub> = Nitrogen Dioxide  
6) N/A = Data not Available  
7) \* = Exceeding air quality standard  
8) - = Not Measurement

MONTHLY REPORT

METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : May

MONITORING STATION : Ban Klong Klae

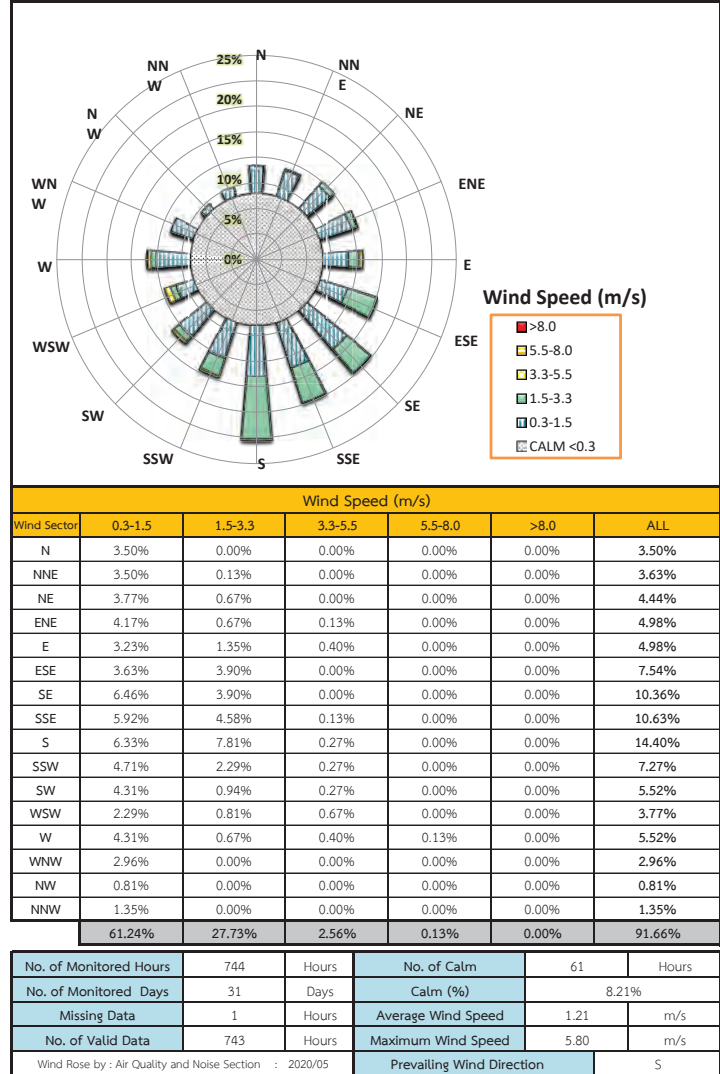
YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	
1 May 24	28.5	40.1	33.2	31	99	63	1,000	1,006	1,003	0.0
2 May 24	28.4	38.0	32.6	41	96	69	1,002	1,006	1,004	0.0
3 May 24	28.9	39.1	32.8	36	99	71	1,003	1,008	1,006	0.0
4 May 24	29.1	39.4	33.2	35	99	68	1,002	1,008	1,005	0.0
5 May 24	28.1	40.2	33.0	29	99	63	1,002	1,007	1,005	0.0
6 May 24	28.8	37.7	32.0	45	99	71	1,004	1,009	1,007	0.0
7 May 24	27.0	34.2	29.2	52	99	77	1,007	1,011	1,009	0.0
8 May 24	26.5	36.5	30.9	37	98	69	1,005	1,011	1,008	0.0
9 May 24	27.0	37.8	32.1	39	99	69	1,005	1,009	1,007	0.0
10 May 24	27.8	37.4	31.8	42	99	73	1,006	1,011	1,008	0.0
11 May 24	27.2	36.2	30.5	48	99	75	1,008	1,012	1,010	0.0
12 May 24	26.6	38.2	31.7	38	99	69	1,005	1,011	1,009	0.0
13 May 24	27.0	37.0	30.7	48	99	77	1,005	1,010	1,008	1.2
14 May 24	25.9	35.8	30.6	43	99	73	1,006	1,010	1,008	0.0
15 May 24	27.7	38.8	32.9	36	99	65	1,005	1,010	1,008	0.0
16 May 24	28.4	38.5	31.8	39	99	75	1,005	1,009	1,008	0.0
17 May 24	28.4	37.6	31.8	44	99	74	1,005	1,010	1,007	0.0
18 May 24	27.7	35.8	31.4	46	99	72	1,002	1,008	1,005	0.0
19 May 24	26.7	38.7	31.4	40	99	75	1,000	1,006	1,004	2.8
20 May 24	26.8	38.1	30.0	39	99	82	1,002	1,006	1,004	0.0
21 May 24	25.8	35.9	28.8	50	100	89	1,004	1,008	1,005	9.8
22 May 24	25.3	35.1	28.9	55	100	88	1,003	1,008	1,006	5.2
23 May 24	25.7	32.8	27.7	71	100	96	1,004	1,007	1,006	4.6
24 May 24	25.7	34.2	29.2	57	100	87	1,003	1,007	1,006	0.0
25 May 24	24.8	35.0	28.5	55	100	88	1,005	1,009	1,007	26.0
26 May 24	24.0	36.1	28.5	51	100	87	1,005	1,009	1,007	18.4
27 May 24	25.1	38.3	30.9	43	100	78	1,004	1,008	1,006	0.0
28 May 24	26.5	36.7	31.5	49	100	77	1,004	1,007	1,006	0.0
29 May 24	27.8	36.0	31.9	47	99	65	1,003	1,007	1,005	20.6
30 May 24	25.5	37.5	30.5	44	100	77	1,002	1,008	1,005	33.6
31 May 24	25.1	35.9	28.6	53	100	87	1,003	1,007	1,006	16.8
Total	24.0	40.2	30.9	29	100	76	1,000	1,012	1,006	139.0
Day	31			31			31			31
Hours	743			743			743			743

Remarks :- P = Power Fail ,F = Equipment Fail , N/A = Data not Available

Date/Month/Year : 1-31/May/2024

STATION : Ban Klong Klae





Equipment Status of Ban Klong Klae Monitoring Station "May 2024"								
No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
3	บ้านคลองนก	SO <sub>2</sub>	Thermo Scientific	43i-BZSCA	1162850017	Normal	20511163	
(ให้ใช้รายงานประจำ)		NO <sub>2</sub>	Thermo Scientific	42i-BZMSDCA	1162850015	Normal	20511165	
		O <sub>3</sub>	Thermo Scientific	49i-BZNCA	1162850019	Normal	20511167	
		DUST (TSP)	Thermo Scientific	5014i/5030i	CM16461001	Normal	20511171	
		DUST (PM - 10)	Thermo Scientific	5014i/5030i	CM16471014	Normal	20511169	
		ZERO AIR	Thermo Scientific	1160 BHP2N	1162850021	Normal	20511173	
		CALIBRATOR	Thermo Scientific	146i-BB6BFCA	1162850023	Normal	20511175	
		DATA LOGGER	ADVANTECH	IPC-50	KMA147893A	Normal	60110255.0.1.3.4	
		DATA LOGGER	HP	HP Compaq	SG5026QWW2	Normal	99050095.1	
		Switch Hub 16 port	D-LINK	DES-101160	F3065CA002170	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00087	Normal	-	
		CPU	hp	d530 SFF	SGH4030WY	Normal	-	
		Display LCD 20"	HP	P201	6CM3151954	Normal	60110255.2	
		KeyBoard Wireless	Logitech	K220	13145C105FH8	Normal	-	
		Mouse Wireless	Logitech	M150	-	Normal	-	
		Standard Gas	Airgas	-	LL156448	Normal	-	
		WIND SPEED	LASTEM	DNA 821	20030210	Normal	-	
		WIND DIRECTION	LASTEM			Normal	-	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506488	Normal	-	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506488	Normal	-	
		BAROMATIC PRESSURE	LASTEM	DQA 208	R404017	Normal	-	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	-	

สถานีบ้านชาวเหนือ  
(สถานที่ตรวจวัด : บ้านชาวเหนือ)

MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONITORING STATION : Ban Chao Nua

MONTH : May

YEAR : 2024

Date	Concentration					
	TSP (µg/m <sup>3</sup> )	PM-10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr. Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 May 24	N/A	67	1	1 - 2	2 - 7	6 - 78
2 May 24	N/A	52	1	1	2 - 8	11 - 57
3 May 24	61	52	1	1	2 - 8	11 - 72
4 May 24	57	50	1	1	2 - 6	12 - 72
5 May 24	62	58	1	1	2 - 9	8 - 64
6 May 24	58	53	1	1	2 - 6	15 - 63
7 May 24	44	37	1	1 - 2	3 - 10	9 - 62
8 May 24	38	33	1	1 - 4	3 - 11	15 - 89
9 May 24	31	27	1	1 - 2	2 - 9	14 - 66
10 May 24	28	24	1	1	2 - 9	11 - 61
11 May 24	28	26	1	1	2 - 8	18 - 58
12 May 24	27	22	1	1	2 - 8	18 - 69
13 May 24	40	35	1	1 - 2	2 - 9	10 - 76
14 May 24	28	25	1	1	2 - 35	18 - 79
15 May 24	51	46	1	1 - 2	3 - 15	14 - 94
16 May 24	25	23	1	0 - 1	2 - 7	12 - 68
17 May 24	31	27	1	0 - 1	2 - 7	17 - 58
18 May 24	25	24	1	1 - 2	2 - 10	12 - 54
19 May 24	24	22	1	1	2 - 8	11 - 63
20 May 24	23	20	1	1	2 - 11	11 - 48
21 May 24	21	19	1	1	3 - 10	8 - 49
22 May 24	19	18	1	1	2 - 7	11 - 58
23 May 24	13	12	1	1	2 - 8	10 - 44
24 May 24	15	11	1	1	2 - 10	10 - 43
25 May 24	17	15	1	1	1 - 7	8 - 36
26 May 24	18	17	1	1	1 - 7	8 - 37
27 May 24	27	22	1	1	2 - 6	2 - 33
28 May 24	23	22	1	1	2 - 7	1 - 36
29 May 24	20	19	1	1 - 2	2 - 7	1 - 32
30 May 24	16	15	1	1 - 2	2 - 7	1 - 30
31 May 24	13	12	1	1	2 - 6	3 - 38
Range	13 - 62	11 - 67	1	0 - 4	1 - 35	1 - 94
Number of times (exceeded standard)	0	0	0	0	0	0
Total	Day	29	31	31	31	31
Monitoring	Hour	692	728	714	714	715
Ambient Air Quality Standard		330	120	120	300	170
					100	

Remark :-  
 1) Standards = Ambient Air Quality Standards of the National Environment Board  
 2) TSP = Total Suspended Particulate  
 3) PM-10 = Particulate Matter less than 10 µm  
 4) SO<sub>2</sub> = Sulfur Dioxide  
 5) NO<sub>2</sub> = Nitrogen Dioxide  
 6) N/A = Data not Available  
 7) \* = Exceeding air quality standard  
 8) - = Not Measurement

MONTHLY REPORT  
METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : May

MONITORING STATION : Ban Chao Nua

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 May 24	27.6	39.2	32.7	31	99	68	999	1,004	1,002	0.0
2 May 24	27.8	37.0	32.2	45	99	75	1,001	1,005	1,003	0.0
3 May 24	28.3	39.2	32.6	36	99	75	1,001	1,007	1,004	0.0
4 May 24	28.8	39.0	32.8	36	99	71	1,001	1,007	1,004	0.0
5 May 24	27.8	39.3	32.7	33	99	69	1,001	1,006	1,003	0.0
6 May 24	28.6	37.9	31.8	47	99	75	1,003	1,007	1,005	0.0
7 May 24	26.7	34.2	29.0	55	99	81	1,005	1,010	1,008	0.0
8 May 24	26.4	37.2	30.7	38	99	73	1,004	1,009	1,007	0.0
9 May 24	26.6	37.6	31.6	41	99	73	1,004	1,008	1,006	0.0
10 May 24	27.6	36.6	31.2	46	99	78	1,005	1,009	1,007	0.0
11 May 24	26.7	35.0	30.0	54	99	82	1,006	1,010	1,008	0.0
12 May 24	26.1	37.8	31.3	41	99	71	1,004	1,009	1,007	0.0
13 May 24	26.4	37.2	30.6	49	100	81	1,004	1,009	1,006	0.8
14 May 24	25.7	35.6	30.1	45	100	79	1,004	1,009	1,007	0.2
15 May 24	27.2	38.5	32.5	38	99	69	1,004	1,009	1,006	0.0
16 May 24	28.5	38.2	31.3	40	99	82	1,004	1,008	1,006	0.0
17 May 24	28.2	36.8	31.2	47	99	79	1,003	1,008	1,006	0.0
18 May 24	27.5	36.5	31.3	43	99	78	1,000	1,006	1,004	0.0
19 May 24	26.6	38.7	31.4	40	100	78	999	1,005	1,002	1.6
20 May 24	26.8	36.9	29.9	48	100	87	1,000	1,004	1,002	0.2
21 May 24	26.3	36.0	29.0	51	100	89	1,002	1,006	1,004	5.2
22 May 24	26.0	34.4	29.1	57	100	88	1,001	1,007	1,005	6.4
23 May 24	26.0	32.2	27.7	75	100	96	1,002	1,005	1,004	15.0
24 May 24	26.3	33.9	29.3	58	100	87	1,002	1,006	1,004	0.2
25 May 24	25.7	34.7	28.6	55	100	89	1,003	1,007	1,005	12.6
26 May 24	24.2	34.9	28.5	56	100	87	1,003	1,007	1,006	18.4
27 May 24	25.3	36.3	30.4	49	100	80	1,002	1,006	1,005	3.4
28 May 24	26.0	37.5	31.3	47	100	78	1,002	1,006	1,004	0.0
29 May 24	27.4	36.6	31.9	45	99	68	1,002	1,005	1,004	0.0
30 May 24	25.8	37.3	30.4	46	100	79	1,001	1,006	1,004	26.6
31 May 24	25.6	35.4	29.1	54	100	86	1,001	1,006	1,004	16.8
Total	24.2	39.3	30.7	31	100	79	999	1,010	1,005	107.4
Day	31			31			31			31
Hours	743			743			743			743

Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available

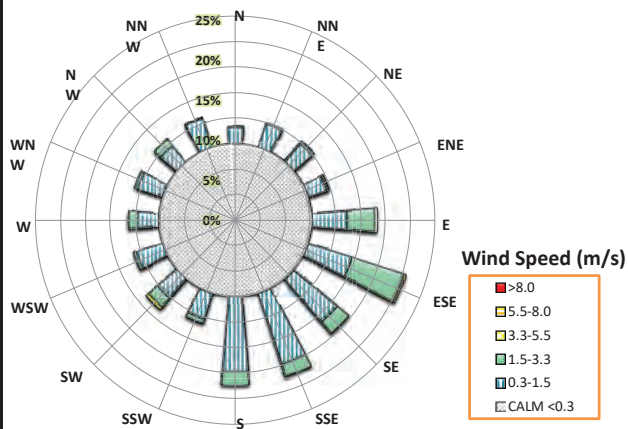


บริษัท ผลิตไฟฟ้าราชบุรี จำกัด

Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-31/May/2024

STATION : Ban Chao Nua



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	2.02%	0.13%	0.00%	0.00%	0.00%	2.15%
NNE	3.09%	0.00%	0.00%	0.00%	0.00%	3.09%
NE	2.96%	0.27%	0.00%	0.00%	0.00%	3.23%
ENE	2.28%	0.27%	0.13%	0.00%	0.00%	2.69%
E	4.30%	3.63%	0.27%	0.00%	0.00%	8.20%
ESE	5.65%	6.85%	0.27%	0.00%	0.00%	12.77%
SE	6.99%	1.88%	0.00%	0.00%	0.00%	8.87%
SSE	9.27%	1.61%	0.00%	0.00%	0.00%	10.89%
S	9.27%	1.75%	0.00%	0.00%	0.00%	11.02%
SSW	3.36%	0.54%	0.00%	0.00%	0.00%	3.90%
SW	3.09%	1.48%	0.40%	0.00%	0.00%	4.97%
WSW	3.36%	0.40%	0.00%	0.00%	0.00%	3.76%
W	2.55%	1.21%	0.00%	0.00%	0.00%	3.76%
WNW	3.23%	0.40%	0.00%	0.00%	0.00%	3.63%
NW	2.55%	1.08%	0.00%	0.00%	0.00%	3.63%
NNW	3.76%	0.13%	0.00%	0.00%	0.00%	3.90%
	67.74%	21.64%	1.08%	0.00%	0.00%	90.46%

No. of Monitored Hours	744	Hours	No. of Calm	71	Hours
No. of Monitored Days	31	Days	Calm (%)	9.54%	
Missing Data	0	Hours	Average Wind Speed	1.08	m/s
No. of Valid Data	744	Hours	Maximum Wind Speed	5.20	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction	ESE	

Equipment Status of Ban Chao Nua Monitoring Station "May 2024"

No.	Site	Analyzer	Brand	Model	S/N	Status	Asset No	Description
4	บ้านชาวนาเหือง	SO <sub>2</sub>	Thermo Scientific	43i-BZSAB	1315757997	Normal	20210096	
		NO <sub>2</sub>	Thermo Scientific	42i-BZM5DAA	CM23367032	Normal	20210248	
		O <sub>3</sub>	Thermo Scientific	49i-BZNA8	1315757999	Normal	20210100	
		DUST (TSP)	Thermo Scientific	5014i (in26-004-4)	CM13211006	Normal	20210094	Pressure Flow Alarm : High และไม่สามารถควบคุม Flow ได้
								ทำให้ไม่มีข้อมูลตรวจวัดระหว่างวันที่ 1-2 May 2024
		DUST (PM - 10)	Thermo Scientific	5014i (in26-004-3)	CM13211005	Normal	20210092	
		ZERO AIR	Thermo Scientific	1160 BHR2C	1315758010	Normal	20210102.1	
		CALIBRATOR	Thermo Scientific	146i-BB38EAB	1315758001	Normal	20210102.3	
		DATA LOGGER(Enviro)	ADVANTECH	IPC-510	KMA1478933	Normal	60110252.0000.1.3.4	
		Data LOGGER License	Envitech	Envidas Ultimate	281230	Normal	-	
		Switch Hub 16 port	TP-LINK	TL-SF1016	12886701720	Normal	-	
		UPS	Power Matic	TR-3000	13 KEI 00082	Normal	-	
		Display LCD 20"	HP	P201	6CM31519JB	Normal	60110252.2	
		Keyboard Wireless	Logitech	K220	13145C105M68	Normal	-	
		Mouse Wireless	Logitech	M150	13135CMDX08	Normal	-	
		Standard Gas	Airgas	-	LL121560	Normal	-	
		WIND SPEED	LASTEM	DNA 827	BZ 1506562	Normal	20210013 0013	
		WIND DIRECTION	LASTEM	DNA 827	BZ 1506562	Normal	20210013 0014	
		AIR TEMPERATURE	LASTEM	DMA 875	CH 1506501	Normal	20210013 0015	
		RELATIVE HUMIDITY	LASTEM	DMA 875	CH 1506501	Normal	20210013 0015	
		BAROMATIC PRESSURE	LASTEM	DQA 208	-	Normal	20210013 0016	
		RAIN GAUGE	LASTEM	DQA 030	-	Normal	20210013 0018	

Preventive maintenance schedule,

Plan and actual

งานบำรุงรักษาสถานีตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง โรงไฟฟ้า บริษัท ราชบุรีเพาเวอร์ ประจำปี 2564

รายละเอียดงาน	มกราคม			กุมภาพันธ์			มีนาคม			เมษายน			พฤษภาคม			มิถุนายน			กรกฎาคม			สิงหาคม			กันยายน			ตุลาคม			พฤศจิกายน			ธันวาคม																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
1. งานประเมินความถูกต้องเครื่องตรวจวัด																																																			
- Single Point	✓		✓																																																
- Multi Point				✓																																															
2. งานตรวจสอบและกำจัดความสะอาดจากตัวก๊าซ เครื่องตรวจวัดก๊าซ ก๊าซ SO <sub>x</sub> , NO <sub>x</sub> , และ O <sub>2</sub>																																																			
3. งานประเมินความถูกต้องเครื่อง Multi Gas Calibrator																																																			
- ตรวจสอบโดยรองศาสตราจารย์																																																			
4. งานตรวจสอบเครื่องมาตรฐานอัตโนมัติภาค																																																			
5. งานประเมินความถูกต้องเครื่องตรวจวัดฝุ่น TSP และ PM10																																																			
- ตรวจสอบโดยรองศาสตราจารย์																																																			
6. งานตรวจสอบและกำจัดความสะอาดจากตัวภาชนะเครื่องมือตรวจวัดฝุ่น TSP PM10																																																			
7. งานบำรุงรักษาและทำความสะอาดสถานี																																																			

✓

Plan

Actual

# Weekly report

[illegible]

Weekly Report _ AAQM-RB					
Site :	Ratchaburi Power Plant		Week No.	19	
Date :	6-May-24	to	12-May-24		
ผู้ปฏิบัติงาน : 1)	นาย พงศ์วิริยะ เชาวลิตร	2)			
3)		4)			
พชร. :	นาย สંગา กรุ่มรัมย์				
<b>สรุปรายละเอียดการปฏิบัติงาน</b>					
- Data logger ปกติ					
- สถานีโดยรอบ ปกติ					
- Standard gas 1450 psi					
- Replace filter high-volume (Run 10/05/2024)					
Remark :					
<div style="text-align: right;">             นาย พงศ์วิริยะ เชาวลิตร  <u>ผู้ปฏิบัติงาน</u>  Date :      13-May-2024           </div>					

Weekly Report _ AAQM-RB					
Site :	Ratchaburi Power Plant		Week No.	20	
Date :	13-May-24	to	19-May-24		
ผู้ปฏิบัติงาน : 1)	นาย พงศ์วิริยะ เชาวลิตร	2)			
	3)	4)			
พพร. :	นาย สง่า กรุ่มรัมย์ย์				
<b>สรุปรายละเอียดการปฏิบัติงาน</b>					
- Data logger ปกติ					
- สถานีโดยรอบ ปกติ					
- Standard gas 1450 psi					
- Replace filter high-volume (Run 16/05/2024)					
- Replace filter 47 mm.					
Remark :					
			นาย พงศ์วิริยะ เชาวลิตร		
			ผู้ปฏิบัติงาน		
Date :			20-May-2024		

[illegible][illegible]

Consumable and spare part list

List Code for Spare Part & Consumable Part AAQM-RPCL (May 2024)

No.	Description	Use for Analyzer	S/N	Unit	Balan	Jan	Balan	Feb	Balan	Mar	Balan	Apr	Balan	May	Balan
					ce	24	ce	24	ce	24	ce	24	ce	24	ce
1	1405DF Consumables PKG	PM-10/2.5 TEOM	59-010993	set	1	0	1	0	1	0	1	0	1	0	1
2	Pump Re-build kit	PM-10/2.5 TEOM	111754-00	set	2	0	2	0	2	0	2	0	2	0	2
3	Filter box of 20 T1400 TEOM	PM-10/2.5 TEOM	57007225-0020	ea	28	1	27	1	26	1	25	1	24	1	23
4	Silica Gel <sup>(<del>silica gel</del>)</sup>	NO <sub>2</sub>	-	can	2	0	2	0	2	0	2	0	2	0	2
5	Pump Re-build kit 420Q	NO <sub>2</sub>	117901-00	set	3	1	2	0	2	0	2	0	2	0	2
6	Sinter Filter(ECC1 01004701)	SO <sub>2</sub>	E0980001811	set	1	0	1	0	1	0	1	0	1	0	1
7	Rebuild Kit, External Pump Model617C022-194 C	SO <sub>2</sub> /O <sub>3</sub>	5K61722	set	6	2	4	0	4	0	4	0	4	0	4
8	Filter Element, 5 Micron, Consumable (1pk = 50 ea.) 47mm.	SO <sub>2</sub> /NO <sub>2</sub> /O <sub>3</sub>	F010006-01	ea	67	3	64	3	61	3	58	3	44	3	41
9	Glass Fiber Filter Media 8" x 10" (100Sheet/Box)(Brand/Whatman)	TSP High-Volume	EPH2000(GHFG85BX10-T)	SHEET	270	5	265	5	260	5	255	5	250	5	245
10	Silica/Quartz Micro Filter Filter Media 8" x 10" (50Sheet/Box)(Brand/Whatman)PM-10	PM-10 High-Volume	QMAEQHVQMASX10-T	SHEET	322	5	317	5	312	5	307	5	302	5	297



## Calibration result

## Calibration Sheet

Project : Ratchaburi Power Plant

Page 01

Site No. : 5

Station : Donsai

Date : 14 May 24

Start Time : 9.30

Analyzer	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>	Standard Gas	SO <sub>2</sub>	NO <sub>x</sub>	Remark
Manufacture	ECOTECH	Thermo	ECOTECH	Cylinder No.	D 636099		
Model	EC 9850B	42IQ-BBANN	EC 9810 B	Concentration	50.10	51.90	
Serial No.	05-1274	1181510016	06-0001	Multi Gas Calibrator			
Range	0 - 500 ppb	0 - 500 ppb	0 - 500 ppb	Model : Sabio(4010)	Serial No. : -		

Phase	Set Point	Desire Value			Monitor Value			Drift			% Drift			Factor
SO <sub>2</sub> Before Calibrate	Zero	0.0			2.0			-2.0			-0.4			Gain : 19.16
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			450.0			0.0			0.0			
SO <sub>2</sub> After Calibrate	Zero	0.0			-			-			-			Gain : -
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			-			-			-			
		NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	
NO <sub>x</sub> Before Calibrate	Zero	0.0	0.0	0.0	1.8	1.5	3.2	-1.8	-1.5	-3.2	-0.4	-0.3	-0.6	NO COEF : 1.129 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 0.999
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	150.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	452.0	1.0	453.0	-2.0	-1.0	-3.0	-0.4	-0.2	-0.7	
NO <sub>x</sub> After Calibrate	Zero	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	NO COEF : - NO <sub>2</sub> COEF : - NO <sub>x</sub> COEF : -
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	150.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	-	-	-	-	-	-	-	-	-	
O <sub>3</sub> Before Calibrate	Zero	0.0			0.0			0.0			0.0			Gain : 1.036
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			464.0			-14.0			-3.1			
O <sub>3</sub> After Calibrate	Zero	0.0			0.0			0.0			0.0			Gain : 0.996
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			450.0			0.0			0.0			
	Zero Drift = Desire Value - Monitor Valve % Zero Drift = (Zero Drift/Full Scale) * 100 % Zero Drift +/- 3% Accept Data							Span Drift = Desire Valve - Monitor Value % Span Drift = (Span Drift/Desire Value) * 100 % Span Drift +/- 5% Accept Data						

Calibrate by : Pongviriyi

Finish Time : 11.00

Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Comment : \_\_\_\_\_

## Calibration Sheet

Project : Ratchaburi Power Plant

Page 02

Site No. : 5

Station : Donsai

Date : 28 May 24

Start Time : 13.00

Analyzer	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>	Standard Gas	SO <sub>2</sub>	NO <sub>x</sub>	Remark
Manufacture	ECOTECH	Thermo	ECOTECH	Cylinder No.	D 636099		
Model	EC 9850B	42IQ-BBANN	EC 9810 B	Concentration	50.10	51.90	
Serial No.	05-1274	1181510016	06-0001	Multi Gas Calibrator			
Range	0 - 500 ppb	0 - 500 ppb	0 - 500 ppb	Model : Sabio(4010)	Serial No. : -		

Phase	Set Point	Desire Value			Monitor Value			Drift			% Drift			Factor
SO <sub>2</sub> Before Calibrate	Zero	0.0			2.0			-2.0			-0.4			Gain : 19.16
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			448.0			2.0			0.4			
SO <sub>2</sub> After Calibrate	Zero	0.0			2.0			-2.0			-0.4			Gain : 19.39
	Span(Lo.)	80.0			78.0			2.0			2.5			
	Span(Mid.)	150.0			145.0			5.0			3.3			
	Span(Hi.)	450.0			451.0			-1.0			-0.2			
		NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	NO	NO <sub>2</sub>	NO <sub>x</sub>	
NO <sub>x</sub> Before Calibrate	Zero	0.0	0.0	0.0	1.5	2.4	3.9	-1.5	-2.4	-3.9	-0.3	-0.5	-0.8	NO COEF : 1.129 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 0.999
	Span(Lo.)	80.0	0.0	80.0	-	-	-	-	-	-	-	-	-	
	Span(Mid.)	150.0	0.0	151.0	-	-	-	-	-	-	-	-	-	
	Span(Hi.)	450.0	0.0	450.0	463.0	2.0	465.0	-13.0	-2.0	-15.0	-2.9	-0.4	-3.3	
NO <sub>x</sub> After Calibrate	Zero	0.0	0.0	0.0	1.5	2.0	3.5	-1.5	-2.0	-3.5	-0.3	-0.4	-0.7	NO COEF : 1.095 NO <sub>2</sub> COEF : 1.000 NO <sub>x</sub> COEF : 1.002
	Span(Lo.)	80.0	1.0	81.0	78.5	0.5	79.0	1.5	0.5	2.0	1.9	0.1	2.5	
	Span(Mid.)	150.0	1.0	151.0	147.2	1.2	148.4	2.8	-0.2	2.6	1.9	0.0	1.7	
	Span(Hi.)	450.0	0.0	450.0	450.0	1.0	451.0	0.0	-1.0	-1.0	0.0	-0.2	-0.2	
O <sub>3</sub> Before Calibrate	Zero	0.0			1.0			-1.0			-0.2			Gain : 0.996
	Span(Lo.)	80.0			-			-			-			
	Span(Mid.)	150.0			-			-			-			
	Span(Hi.)	450.0			426.0			24.0			5.3			
O <sub>3</sub> After Calibrate	Zero	0.0			1.0			-1.0			-0.2			Gain : 1.011
	Span(Lo.)	80.0			85.0			-5.0			-6.3			
	Span(Mid.)	150.0			154.0			-4.0			-2.7			
	Span(Hi.)	450.0			450.0			0.0			0.0			
	Zero Drift = Desire Value - Monitor Valve % Zero Drift = (Zero Drift/Full Scale) * 100 % Zero Drift +/- 3% Accept Data							Span Drift = Desire Value - Monitor Valve % Span Drift = (Span Drift/Desire Value) * 100 % Span Drift +/- 5% Accept Data						

Calibrate by : Pongviriya

Finish Time : 15.00

Air Quality & Noise Section, Environmental Quality Monitoring Department, Project Environment Division, EGAT

Comment : \_\_\_\_\_



บริษัท ราชบุรีเพาเวอร์ จำกัด  
Ratchaburi Power Co.,Ltd.

รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศโดยทั่วไปแบบต่อเนื่อง  
บริษัท ราชบุรีเพาเวอร์ จำกัด

ประจำเดือน มิถุนายน 2567

เสนอต่อ  
บริษัท ราชบุรีเพาเวอร์ จำกัด

โดย  
ฝ่ายสิ่งแวดล้อมโครงการ  
การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

สถานีเทศบาลตำบลคอนทราย



บริษัท ราชนิวเอนเนอร์จี้ จำกัด  
Ratchaburi Power Co.,Ltd.

# MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : June

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)		O <sub>3</sub> (ppb)	O <sub>2</sub> (%)
	24-Hr. Avg.	1-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Jun 24	3	2 - 4	5	2 - 11	3 - 32	N/A
2 Jun 24	3	2 - 4	4	2 - 9	2 - 32	N/A
3 Jun 24	4	3 - 5	5	2 - 10	3 - 27	N/A
4 Jun 24	3	2 - 5	5	2 - 10	2 - 25	N/A
5 Jun 24	3	2 - 4	3	1 - 5	5 - 26	N/A
6 Jun 24	2	1 - 3	4	2 - 8	5 - 34	N/A
7 Jun 24	3	2 - 4	5	3 - 9	10 - 61	N/A
8 Jun 24	2	1 - 4	6	3 - 11	3 - 35	N/A
9 Jun 24	1	1 - 2	3	1 - 6	13 - 30	N/A
10 Jun 24	3	1 - 13	4	2 - 9	2 - 29	N/A
11 Jun 24	1	0 - 5	5	3 - 9	2 - 38	N/A
12 Jun 24	3	2 - 4	5	3 - 11	5 - 28	N/A
13 Jun 24	3	2 - 5	5	3 - 7	2 - 33	N/A
14 Jun 24	3	2 - 5	5	2 - 10	2 - 26	N/A
15 Jun 24	3	2 - 4	5	3 - 8	2 - 24	N/A
16 Jun 24	4	3 - 5	5	2 - 12	3 - 31	N/A
17 Jun 24	2	2 - 5	5	3 - 10	2 - 42	N/A
18 Jun 24	3	2 - 5	7	4 - 13	2 - 41	N/A
19 Jun 24	2	1 - 4	5	3 - 8	4 - 31	N/A
20 Jun 24	1	0 - 2	4	3 - 8	5 - 26	N/A
21 Jun 24	1	1 - 3	4	2 - 7	7 - 25	N/A
22 Jun 24	2	1 - 4	5	2 - 8	8 - 33	N/A
23 Jun 24	1	0 - 2	4	3 - 8	11 - 29	N/A
24 Jun 24	2	1 - 3	4	2 - 7	8 - 28	N/A
25 Jun 24	3	2 - 3	5	3 - 9	9 - 36	N/A
26 Jun 24	4	3 - 5	5	3 - 10	5 - 31	N/A
27 Jun 24	2	1 - 5	6	3 - 12	4 - 35	N/A
28 Jun 24	3	1 - 4	7	4 - 15	4 - 52	N/A
29 Jun 24	2	1 - 3	6	3 - 9	4 - 43	N/A
30 Jun 24	2	2 - 3	5	2 - 8	5 - 41	N/A
Range	1 - 4	0 - 13	3 - 7	1 - 15	2 - 61	-
Number of times (exceeded standard)	0	0	0	0	0	-
Total Day	30	30	30	30	30	-
Monitoring Hour	713	713	713	713	714	-
Ambient Air Quality Standard	120	300	-	170	100	-

Remark :-

1) Standards	= Ambient Air Quality Standards of the National Environment Board
2) SO <sub>2</sub>	= Sulfur Dioxide
3) NO <sub>2</sub>	= Nitrogen Dioxide
4) O <sub>3</sub>	= Ozone
5) N/A	= Data not Available
6) *	= Exceeding air quality standard
7) -	= Not Measurement



บริษัท ราชนิวเอนเนอร์จี้ จำกัด  
Ratchaburi Power Co.,Ltd.

# MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

MONTH : June

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date	Concentration (24-Hr Avg)				
	TSP (μg/m <sup>3</sup> )		PM-10 (μg/m <sup>3</sup> )		PM-2.5 (μg/m <sup>3</sup> )
	Micro balance	Hi volume	Micro balance	Hi volume	Micro balance
1 Jun 24	28		14		9.5
2 Jun 24	25		14		10.3
3 Jun 24	33		18		11.9
4 Jun 24	37		19		13.6
5 Jun 24	25		9		6.2
6 Jun 24	30		12		8.2
7 Jun 24	35		22		18.1
8 Jun 24	31		18		13.1
9 Jun 24	17		8		7.3
10 Jun 24	23		13		10.8
11 Jun 24	27		17		12.9
12 Jun 24	32		17		13.8
13 Jun 24	32		19		11.5
14 Jun 24	36		21		9.8
15 Jun 24	34		21		10.5
16 Jun 24	33		18		9.7
17 Jun 24	32		20		10.2
18 Jun 24	31		19		9.6
19 Jun 24	26		17		8.7
20 Jun 24	20		11		6.3
21 Jun 24	20		11		6.0
22 Jun 24	21		11		5.5
23 Jun 24	24		13		6.1
24 Jun 24	20		10		5.5
25 Jun 24	25		13		6.9
26 Jun 24	26		15		9.8
27 Jun 24	33		24		16.7
28 Jun 24	25		16		10.3
29 Jun 24	27		18		11.8
30 Jun 24	18		13		8.0
Range	17 - 37	0 - 0	8 - 24	0 - 0	5.5 - 18.1
Number of times (exceeded standard)	0	0	0	0	0
Total Day	30	0	30	0	30
Monitoring Hour	718	0	714	0	714
Ambient Air Quality Standard	330	330	120	120	37.5

Remark :-

1) Standards	= Ambient Air Quality Standards of the National Environment Board
2) TSP	= Total Suspended Particulate
3) PM-10	= Particulate Matter less than 10 μm
4) PM-2.5	= Particulate Matter with diameter of less than 2.5 micron





บริษัท ราชบุรีเอนเนอร์จี้ จำกัด  
Ratchaburi Power Co.,Ltd.

## MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Power Co.,Ltd.

Month : June

MONITORING STATION : Donsai Sub-district

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Jun 24	26.5	35.3	30.3	68	100	86	1,005	1,012	1,008	0.0
2 Jun 24	27.6	36.6	31.4	59	96	78	1,008	1,014	1,011	0.0
3 Jun 24	27.1	35.8	31.0	56	92	75	1,007	1,013	1,009	0.0
4 Jun 24	28.1	37.2	32.2	60	94	76	1,006	1,011	1,008	0.0
5 Jun 24	28.2	37.7	32.3	51	87	70	1,006	1,012	1,008	0.0
6 Jun 24	27.7	39.0	32.5	54	90	70	1,006	1,012	1,009	0.0
7 Jun 24	27.4	36.7	31.7	57	90	73	1,003	1,011	1,007	0.0
8 Jun 24	27.6	35.9	31.5	55	91	72	1,001	1,009	1,005	0.0
9 Jun 24	26.8	36.1	31.4	57	92	73	1,002	1,007	1,004	0.0
10 Jun 24	28.2	34.0	30.2	71	92	80	1,003	1,008	1,005	3.8
11 Jun 24	26.8	35.3	30.9	60	97	77	1,006	1,010	1,008	0.4
12 Jun 24	27.3	35.5	31.0	62	89	78	1,008	1,014	1,010	0.0
13 Jun 24	27.0	39.2	32.8	50	95	71	1,005	1,012	1,009	2.2
14 Jun 24	27.1	39.4	33.3	50	93	69	1,003	1,008	1,006	0.0
15 Jun 24	27.0	40.5	33.4	44	92	68	1,001	1,007	1,004	0.0
16 Jun 24	27.5	39.8	32.4	48	87	70	1,002	1,008	1,005	0.0
17 Jun 24	26.6	37.8	31.2	55	99	79	1,003	1,009	1,006	20.4
18 Jun 24	25.8	38.7	30.0	53	99	86	1,002	1,008	1,005	13.4
19 Jun 24	25.7	39.4	31.3	51	99	79	1,000	1,008	1,004	0.0
20 Jun 24	26.7	39.7	32.4	48	92	69	1,001	1,006	1,004	0.0
21 Jun 24	27.8	39.1	32.4	48	87	70	1,000	1,005	1,003	0.0
22 Jun 24	27.3	38.1	32.1	51	88	69	998	1,004	1,001	0.0
23 Jun 24	28.1	36.3	31.4	52	87	70	1,000	1,005	1,003	0.0
24 Jun 24	27.4	35.2	30.8	59	87	73	1,000	1,006	1,003	0.0
25 Jun 24	26.1	36.2	30.7	54	94	74	1,001	1,006	1,003	0.8
26 Jun 24	25.7	34.3	29.1	66	99	88	1,003	1,009	1,005	2.2
27 Jun 24	27.9	36.5	30.7	57	97	83	1,005	1,010	1,008	9.6
28 Jun 24	25.7	38.9	30.3	51	100	84	1,003	1,010	1,007	3.8
29 Jun 24	26.6	37.5	30.2	60	100	86	1,005	1,011	1,008	0.0
30 Jun 24	25.9	37.2	29.9	56	100	85	1,005	1,013	1,009	37.2
Total	25.7	40.5	31.4	44	100	76	998	1,014	1,006	93.8
Day	30			30			30			30
Hours	720			720			720			719

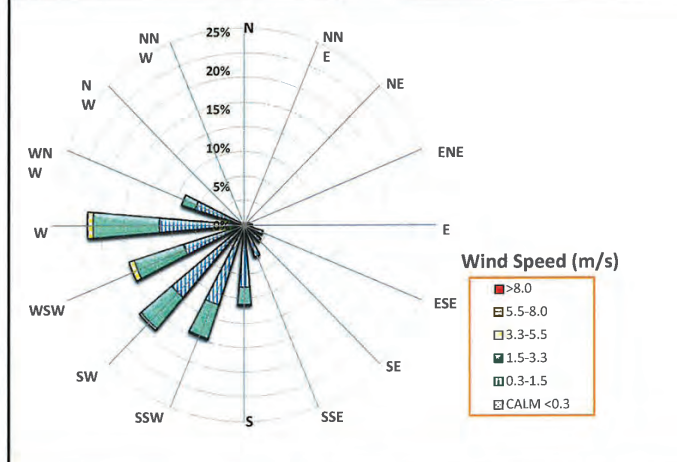
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ราชบุรีเอนเนอร์จี้ จำกัด  
Ratchaburi Power Co.,Ltd.

Date/Month/Year : 1-30/June/2024

STATION : Donsai Sub-district



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NNE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ENE	0.69%	0.00%	0.00%	0.00%	0.00%	0.69%
E	0.97%	0.00%	0.00%	0.00%	0.00%	0.97%
ESE	2.50%	0.00%	0.00%	0.00%	0.00%	2.50%
SE	2.64%	0.14%	0.00%	0.00%	0.00%	2.78%
SSE	4.31%	0.00%	0.00%	0.00%	0.00%	4.31%
S	8.06%	2.22%	0.14%	0.00%	0.00%	10.42%
SSW	10.83%	4.58%	0.14%	0.00%	0.00%	15.56%
SW	12.22%	5.28%	0.28%	0.00%	0.00%	17.78%
WSW	8.19%	6.81%	0.69%	0.00%	0.00%	15.69%
W	10.97%	8.75%	0.69%	0.00%	0.00%	20.42%
WNW	6.67%	1.81%	0.00%	0.00%	0.00%	8.47%
NW	0.28%	0.00%	0.00%	0.00%	0.00%	0.28%
NNW	0.14%	0.00%	0.00%	0.00%	0.00%	0.14%
	68.47%	29.58%	1.94%	0.00%	0.00%	100.00%

No. of Monitored Hours	720	Hours	No. of Calm	0	Hours
No. of Monitored Days	30	Days	Calm (%)	0.00%	
Missing Data	0	Hours	Average Wind Speed	1.13	m/s
No. of Valid Data	720	Hours	Maximum Wind Speed	4.10	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction		W

สถานีบ้านบางกะโด  
(สถานที่ตรวจวัด : วัดบางกะโด)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd. MONTH : June  
MONITORING STATION : Wat Bang Gado YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr Avg.	24-Hr Avg.	24-Hr Avg.	1-Hr Avg.	24-Hr Avg.	1-Hr Avg.
1 Jun 24	36	13	3	3 - 4	0 - 8	1 - 77
2 Jun 24	39	21	3	3 - 4	1 - 4	14 - 33
3 Jun 24	33	19	4	3 - 5	1 - 7	3 - 32
4 Jun 24	40	22	4	3 - 7	0 - 7	0 - 30
5 Jun 24	31	17	2	1 - 5	0 - 5	1 - 31
6 Jun 24	31	13	1	1 - 2	0 - 4	2 - 36
7 Jun 24	31	16	1	1 - 2	1 - 5	10 - 34
8 Jun 24	38	23	2	1 - 2	0 - 7	5 - 39
9 Jun 24	26	11	1	1 - 2	0 - 7	14 - 31
10 Jun 24	29	13	1	1 - 2	0 - 6	0 - 33
11 Jun 24	36	21	1	1 - 2	0 - 8	0 - 40
12 Jun 24	33	16	1	0 - 2	0 - 5	5 - 27
13 Jun 24	36	21	1	1 - 2	0 - 1	1 - 37
14 Jun 24	40	25	1	1 - 2	0 - 2	1 - 30
15 Jun 24	36	18	1	1 - 2	0 - 2	1 - 25
16 Jun 24	34	17	1	1 - 2	0 - 6	3 - 37
17 Jun 24	38	20	1	1 - 2	0 - 7	1 - 44
18 Jun 24	36	16	1	1 - 2	1 - 10	2 - 47
19 Jun 24	39	19	1	1 - 2	1 - 6	0 - 40
20 Jun 24	30	15	2	1 - 3	1 - 6	3 - 34
21 Jun 24	29	9	2	1 - 2	1 - 7	3 - 34
22 Jun 24	28	15	2	1 - 2	1 - 6	7 - 37
23 Jun 24	31	13	2	1 - 2	0 - 6	8 - 30
24 Jun 24	28	13	2	1 - 2	1 - 4	7 - 34
25 Jun 24	32	11	1	1 - 2	0 - 7	8 - 40
26 Jun 24	34	17	1	1 - 2	1 - 15	2 - 36
27 Jun 24	46	25	1	1 - 2	1 - 12	0 - 63
28 Jun 24	35	24	1	1 - 2	1 - 15	0 - 57
29 Jun 24	45	22	1	1 - 2	2 - 10	0 - 46
30 Jun 24	45	18	1	1 - 2	2 - 7	1 - 34
Range	26 - 46	9 - 25	1 - 4	0 - 7	0 - 15	0 - 77
Number of times (exceeded standard)	0	0	0	0	0	0
Total Day	30	30	30	30	30	30
Monitoring Hour	720	720	689	689	688	688
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-  
1) Standards = Ambient Air Quality Standards of the National Environment Board  
2) TSP = Total Suspended Particulate  
3) PM-10 = Particulate Matter less than 10  $\mu\text{m}$  6) N/A = Data not Available  
4) SO<sub>2</sub> = Sulfur Dioxide 7) \* = Exceeding air quality standard  
5) NO<sub>2</sub> = Nitrogen Dioxide 8) - = Not Measurement





บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

### MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : June

MONITORING STATION : Wat Bang Gado

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Jun 24	26.4	32.9	29.5	63	98	81	1,008	1,012	1,009	0.0
2 Jun 24	27.5	33.8	30.2	54	90	72	1,009	1,012	1,011	0.2
3 Jun 24	26.8	33.4	29.7	50	85	71	1,008	1,012	1,010	0.0
4 Jun 24	27.7	34.3	30.8	56	90	72	1,007	1,011	1,009	0.0
5 Jun 24	27.2	34.9	30.7	47	83	66	1,007	1,012	1,009	0.0
6 Jun 24	27.0	34.9	30.6	50	90	68	1,007	1,011	1,010	0.0
7 Jun 24	26.3	33.8	30.1	55	90	69	1,005	1,011	1,008	0.2
8 Jun 24	26.9	33.6	30.0	51	87	68	1,004	1,009	1,007	0.0
9 Jun 24	25.7	33.5	29.8	53	93	69	1,004	1,008	1,006	0.0
10 Jun 24	27.2	31.0	28.8	67	91	76	1,006	1,009	1,007	0.4
11 Jun 24	26.5	32.6	29.5	55	91	71	1,007	1,011	1,009	0.0
12 Jun 24	26.6	33.5	29.5	57	83	74	1,009	1,013	1,011	0.0
13 Jun 24	26.5	36.0	31.1	46	95	68	1,006	1,011	1,009	0.0
14 Jun 24	26.6	36.2	31.5	46	92	65	1,005	1,009	1,008	0.0
15 Jun 24	26.5	37.2	31.4	39	91	65	1,003	1,008	1,007	0.0
16 Jun 24	26.3	37.1	30.6	42	86	66	1,005	1,009	1,007	0.2
17 Jun 24	25.5	35.7	29.7	48	94	75	1,005	1,010	1,008	17.6
18 Jun 24	25.5	36.4	28.7	46	97	81	1,005	1,009	1,008	18.4
19 Jun 24	25.8	36.4	29.8	47	97	76	1,004	1,009	1,007	0.0
20 Jun 24	26.0	36.1	30.6	45	88	66	1,004	1,008	1,006	0.0
21 Jun 24	26.5	35.5	30.5	46	87	68	1,003	1,008	1,005	0.0
22 Jun 24	26.3	35.3	30.5	46	87	65	1,002	1,007	1,005	0.0
23 Jun 24	27.4	33.5	29.8	49	80	66	1,003	1,007	1,006	0.0
24 Jun 24	26.3	32.3	29.1	58	85	70	1,004	1,007	1,006	0.0
25 Jun 24	25.9	33.5	29.2	49	90	71	1,004	1,008	1,006	0.6
26 Jun 24	25.2	31.6	27.8	63	97	86	1,006	1,010	1,008	2.0
27 Jun 24	27.1	33.6	29.5	53	98	81	1,006	1,011	1,009	9.2
28 Jun 24	25.2	36.0	29.2	46	99	81	1,005	1,010	1,009	39.8
29 Jun 24	26.0	34.1	28.9	55	99	83	1,007	1,011	1,009	0.0
30 Jun 24	25.9	35.0	28.8	51	99	83	1,007	1,012	1,010	9.0
Total	25.2	37.2	29.9	39	99	72	1,002	1,013	1,008	97.6
Day	30			30			30			30
Hours	720			720			720			720

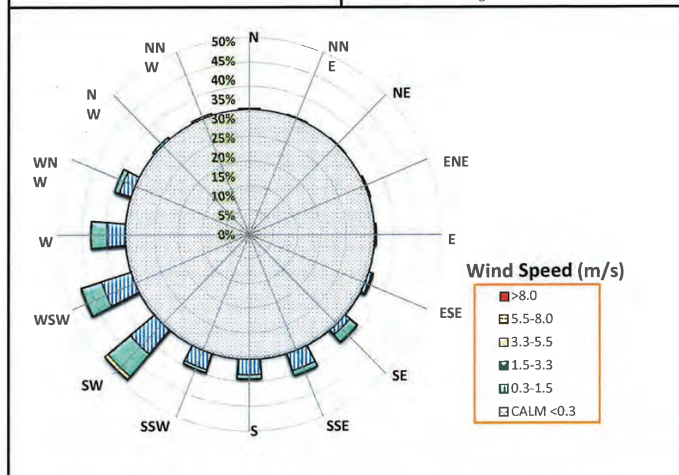
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-30/June/2024

STATION : Wat Bang Gado



Wind Speed (m/s)							
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL	
N	0.28%	0.00%	0.00%	0.00%	0.00%	0.28%	
NNE	0.14%	0.00%	0.00%	0.00%	0.00%	0.14%	
NE	0.14%	0.00%	0.00%	0.00%	0.00%	0.14%	
ENE	0.42%	0.00%	0.00%	0.00%	0.00%	0.42%	
E	0.42%	0.00%	0.00%	0.00%	0.00%	0.42%	
ESE	0.97%	0.28%	0.00%	0.00%	0.00%	1.25%	
SE	1.67%	2.36%	0.14%	0.00%	0.00%	4.17%	
SSE	4.72%	1.25%	0.00%	0.00%	0.00%	5.97%	
S	4.03%	0.97%	0.00%	0.00%	0.00%	5.00%	
SSW	4.44%	0.69%	0.00%	0.00%	0.00%	5.14%	
SW	8.19%	7.50%	1.11%	0.00%	0.00%	16.81%	
WSW	8.06%	5.42%	0.14%	0.00%	0.00%	13.61%	
W	4.86%	4.03%	0.00%	0.00%	0.00%	8.89%	
WNW	3.19%	1.25%	0.00%	0.00%	0.00%	4.44%	
NW	0.56%	0.00%	0.00%	0.00%	0.00%	0.56%	
NNW	0.42%	0.00%	0.00%	0.00%	0.00%	0.42%	
	42.50%	23.75%	1.39%	0.00%	0.00%	67.64%	
No. of Monitored Hours		720	Hours	No. of Calm		233	Hours
No. of Monitored Days		30	Days	Calm (%)		32.36%	
Missing Data		0	Hours	Average Wind Speed		0.99	m/s
No. of Valid Data		720	Hours	Maximum Wind Speed		4.00	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05				Prevailing Wind Direction			SW

สถานีบ้านดอนมดตะนอย  
(สถานที่ตรวจวัด : วัดนันทนุญอันโตนิโอ)



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

MONTHLY REPORT

AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd. MONTH : June  
MONITORING STATION : Ban Don Mod Tanoi YEAR : 2024

Date	Concentration					
	TSP (µg/m <sup>3</sup> )	PM10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr Avg.	24-Hr Avg.	24-Hr Avg.	1-Hr Avg.	24-Hr Avg.	1-Hr Avg.
1 Jun 24	19	15	2	2	2 - 10	3 - 40
2 Jun 24	23	18	2	2	2 - 7	4 - 31
3 Jun 24	28	22	2	2 - 3	2 - 10	3 - 30
4 Jun 24	29	26	2	2 - 3	2 - 9	2 - 33
5 Jun 24	21	15	2	2 - 3	2 - 7	3 - 41
6 Jun 24	21	17	2	2 - 3	1 - 6	7 - 33
7 Jun 24	30	19	2	2 - 3	2 - 9	6 - 34
8 Jun 24	27	23	2	2 - 3	2 - 9	6 - 41
9 Jun 24	17	9	2	2	2 - 4	15 - 33
10 Jun 24	28	11	2	2	1 - 12	3 - 31
11 Jun 24	25	15	2	2	2 - 9	3 - 39
12 Jun 24	23	16	2	2	1 - 11	5 - 31
13 Jun 24	30	22	2	2 - 3	2 - 8	3 - 35
14 Jun 24	23	19	2	2 - 3	2 - 6	2 - 30
15 Jun 24	31	19	2	2 - 3	2 - 11	2 - 30
16 Jun 24	32	20	2	2 - 3	2 - 8	3 - 42
17 Jun 24	27	22	2	2 - 3	2 - 9	3 - 40
18 Jun 24	23	18	2	2 - 3	2 - 10	2 - 33
19 Jun 24	32	22	2	2 - 3	2 - 9	2 - 35
20 Jun 24	21	13	2	2 - 3	1 - 5	4 - 28
21 Jun 24	27	14	3	2 - 3	2 - 8	3 - 37
22 Jun 24	17	11	3	2 - 3	2 - 12	6 - 40
23 Jun 24	28	15	3	2 - 3	1 - 13	4 - 32
24 Jun 24	19	10	2	2 - 3	1 - 5	6 - 36
25 Jun 24	22	12	2	2 - 3	1 - 5	6 - 37
26 Jun 24	17	16	2	2 - 3	2 - 14	2 - 37
27 Jun 24	35	25	3	2 - 3	2 - 11	2 - 40
28 Jun 24	23	16	3	2 - 3	2 - 10	3 - 47
29 Jun 24	27	19	3	2 - 3	3 - 10	2 - 44
30 Jun 24	21	17	2	2 - 3	2 - 7	2 - 43
Range	17 - 35	9 - 26	2 - 3	2 - 3	1 - 14	2 - 47
Number of times (exceeded standard)	0	0	0	0	0	0
Total Day	30	30	30	30	30	30
Monitoring Hour	718	704	689	689	689	689
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-  
1) Standards = Ambient Air Quality Standards of the National Environment Board  
2) TSP = Total Suspended Particulate  
3) PM-10 = Particulate Matter less than 10 µm  
4) SO<sub>2</sub> = Sulfur Dioxide  
5) NO<sub>2</sub> = Nitrogen Dioxide  
6) N/A = Data not Available  
7) \* = Exceeding air quality standard  
8) - = Not Measurement





บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

### MONTHLY REPORT

#### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : June

MONITORING STATION : Ban Don Mod Tanoi

YEAR : 2024

Date	Temperature ( ° C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	
1 Jun 24	25.3	33.6	29.2	62	100	86	1,007	1,012	1,009	9.2
2 Jun 24	26.7	34.6	30.0	50	99	79	1,009	1,012	1,011	0.6
3 Jun 24	25.9	33.9	29.5	48	99	77	1,008	1,012	1,010	0.2
4 Jun 24	27.1	35.2	30.9	52	99	75	1,007	1,011	1,009	0.0
5 Jun 24	25.8	35.0	30.6	48	99	72	1,007	1,011	1,009	0.0
6 Jun 24	26.4	36.3	30.8	44	99	67	1,007	1,011	1,009	0.0
7 Jun 24	27.0	34.4	30.3	50	99	69	1,005	1,011	1,008	0.0
8 Jun 24	26.4	34.6	30.0	47	99	69	1,004	1,009	1,007	0.0
9 Jun 24	25.1	34.2	29.9	49	99	69	1,004	1,008	1,006	0.2
10 Jun 24	26.2	30.8	28.2	72	99	91	1,005	1,009	1,007	2.4
11 Jun 24	26.1	33.9	29.6	53	99	75	1,007	1,011	1,009	0.0
12 Jun 24	26.3	34.0	29.3	52	99	85	1,009	1,012	1,010	0.2
13 Jun 24	26.0	37.0	31.1	42	99	71	1,006	1,011	1,009	0.0
14 Jun 24	26.3	36.5	31.5	44	99	67	1,005	1,009	1,007	0.0
15 Jun 24	26.1	38.2	31.5	36	99	68	1,003	1,008	1,006	0.0
16 Jun 24	26.0	38.4	30.8	37	99	67	1,004	1,009	1,007	0.0
17 Jun 24	24.0	37.0	29.7	44	100	80	1,006	1,009	1,008	26.6
18 Jun 24	24.8	37.7	28.9	44	100	84	1,005	1,009	1,007	15.2
19 Jun 24	25.0	36.5	29.2	45	100	85	1,004	1,009	1,006	6.6
20 Jun 24	25.5	36.1	30.6	44	99	68	1,004	1,008	1,006	0.0
21 Jun 24	26.1	35.8	30.4	44	99	70	1,003	1,007	1,005	0.0
22 Jun 24	26.6	35.6	30.5	44	99	67	1,001	1,007	1,004	0.0
23 Jun 24	27.1	33.7	29.8	47	99	69	1,003	1,007	1,006	0.0
24 Jun 24	26.2	32.6	29.0	56	99	74	1,003	1,007	1,005	0.0
25 Jun 24	25.2	33.8	29.0	47	99	77	1,004	1,008	1,005	0.2
26 Jun 24	24.4	31.4	27.4	72	100	96	1,006	1,009	1,007	2.0
27 Jun 24	26.0	34.9	29.8	49	100	81	1,006	1,010	1,009	0.2
28 Jun 24	26.6	38.0	29.8	42	99	83	1,005	1,010	1,008	0.2
29 Jun 24	25.9	35.0	29.1	53	100	85	1,007	1,011	1,009	0.0
30 Jun 24	24.9	36.4	29.0	47	100	84	1,007	1,012	1,010	0.2
Total	24.0	38.4	29.9	36	100	76	1,001	1,012	1,008	64.0
Day	30			30			30			30
Hours	720			720			720			720

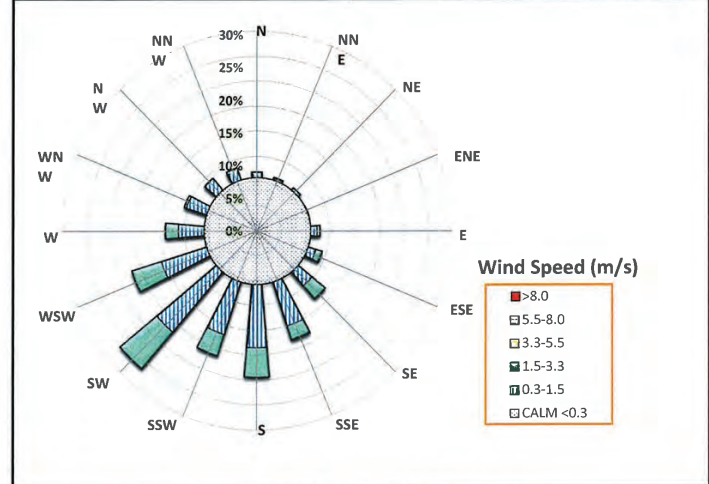
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-30/June/2024

STATION : Ban Don Mod Tanoi



Wind Speed (m/s)					
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0
N	0.83%	0.00%	0.00%	0.00%	0.00%
NNE	0.28%	0.14%	0.00%	0.00%	0.00%
NE	0.42%	0.00%	0.00%	0.00%	0.00%
ENE	0.00%	0.00%	0.00%	0.00%	0.00%
E	0.97%	0.42%	0.00%	0.00%	0.00%
ESE	1.25%	0.97%	0.00%	0.00%	0.00%
SE	2.78%	2.64%	0.00%	0.00%	0.00%
SSE	7.08%	2.22%	0.14%	0.00%	0.00%
S	9.72%	4.58%	0.00%	0.00%	0.00%
SSW	8.47%	3.47%	0.00%	0.00%	0.00%
SW	12.08%	7.36%	0.00%	0.00%	0.00%
WSW	7.36%	4.72%	0.00%	0.00%	0.00%
W	4.03%	1.94%	0.00%	0.00%	0.00%
WNW	3.33%	0.28%	0.00%	0.00%	0.00%
NW	2.36%	0.00%	0.00%	0.00%	0.00%
NNW	1.94%	0.00%	0.00%	0.00%	0.00%
	62.92%	28.75%	0.14%	0.00%	0.00%

No. of Monitored Hours	720	Hours	No. of Calm	59	Hours
No. of Monitored Days	30	Days	Calm (%)	8.19%	
Missing Data	0	Hours	Average Wind Speed	1.11	m/s
No. of Valid Data	720	Hours	Maximum Wind Speed	3.60	m/s
Prevailing Wind Direction				SW	

สถานีบ้านคลองแค  
(สถานที่ตรวจวัด : วัดโพธิ์ราษฎร์บูรณะ)



MONTHLY REPORT  
AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd. MONTH : June  
MONITORING STATION : Ban Klong Klae YEAR : 2024

Date	Concentration					
	TSP (μg/m <sup>3</sup> )	PM10 (μg/m <sup>3</sup> )	SO <sub>2</sub> (ppb)		NO <sub>2</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr Avg.	24-Hr Avg.	24-Hr Avg.	1-Hr Avg.	1-Hr Avg.	1-Hr Avg.
1 Jun 24	17	13	1	0 - 1	2 - 13	5 - 37
2 Jun 24	20	17	1	0 - 1	1 - 9	5 - 32
3 Jun 24	23	18	1	0 - 2	1 - 13	4 - 29
4 Jun 24	26	22	0	0 - 1	2 - 10	3 - 26
5 Jun 24	16	15	0	0 - 1	1 - 10	6 - 42
6 Jun 24	17	15	0	0 - 1	1 - 7	9 - 34
7 Jun 24	22	18	0	0 - 1	1 - 7	6 - 31
8 Jun 24	21	17	0	0 - 1	2 - 8	9 - 38
9 Jun 24	9	8	1	0 - 1	1 - 4	13 - 30
10 Jun 24	10	9	0	0 - 1	1 - 11	4 - 30
11 Jun 24	16	15	0	0 - 1	1 - 8	3 - 39
12 Jun 24	19	14	0	0 - 1	1 - 11	4 - 27
13 Jun 24	26	25	1	0 - 1	1 - 7	3 - 33
14 Jun 24	19	16	1	0 - 1	1 - 6	3 - 27
15 Jun 24	23	22	1	0 - 1	1 - 8	2 - 31
16 Jun 24	21	15	1	1	1 - 11	3 - 41
17 Jun 24	24	19	1	0 - 1	1 - 11	2 - 38
18 Jun 24	27	25	1	0 - 3	1 - 13	2 - 36
19 Jun 24	26	21	1	1 - 7	1 - 8	2 - 35
20 Jun 24	14	12	1	1 - 2	1 - 8	4 - 28
21 Jun 24	14	12	1	1 - 3	1 - 7	7 - 35
22 Jun 24	12	11	1	1 - 3	1 - 8	8 - 36
23 Jun 24	13	11	1	1 - 2	1 - 7	8 - 30
24 Jun 24	14	11	1	1 - 2	1 - 6	9 - 34
25 Jun 24	12	9	1	1	1 - 7	8 - 34
26 Jun 24	16	13	1	1 - 2	2 - 10	3 - 37
27 Jun 24	27	25	1	1 - 2	2 - 12	2 - 44
28 Jun 24	22	18	1	1 - 2	2 - 10	3 - 53
29 Jun 24	24	21	2	1 - 3	2 - 11	2 - 44
30 Jun 24	19	14	1	1 - 2	1 - 10	3 - 42
Range	9 - 27	8 - 25	0 - 2	0 - 7	1 - 13	2 - 53
Number of times (exceeded standard)	0	0	0	0	0	0
Total Day	30	30	30	30	30	30
Monitoring Hour	713	714	689	689	686	688
Ambient Air Quality Standard	250	120	120	200	170	100

Remark :- 1) Standards = Ambient Air Quality Standards of the National Environment Board  
2) TSP = Total Suspended Particulate  
3) PM-10 = Particulate Matter less than 10 μm 6) N/A = Data not Available  
4) SO<sub>2</sub> = Sulfur Dioxide 7) \* = Exceeding air quality standard  
5) NO<sub>2</sub> = Nitrogen Dioxide 8) - = Not Measurement





บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

## MONTHLY REPORT

### METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : June

MONITORING STATION : Ban Klong Klao

YEAR : 2024

Date	Temperature (°C)			Relative Humidity (%)			Pressure (mb)			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Jun 24	25.4	33.1	29.3	64	100	86	1,006	1,010	1,008	0.0
2 Jun 24	27.3	34.3	30.4	52	99	79	1,007	1,011	1,009	0.0
3 Jun 24	27.0	34.4	30.0	49	99	73	1,007	1,011	1,009	0.0
4 Jun 24	27.7	34.8	31.0	55	99	74	1,005	1,009	1,007	0.0
5 Jun 24	25.1	35.0	30.5	48	99	70	1,006	1,010	1,008	1.6
6 Jun 24	26.8	36.3	31.3	47	97	64	1,006	1,010	1,008	0.0
7 Jun 24	26.8	34.3	30.7	51	99	67	1,004	1,010	1,007	0.0
8 Jun 24	27.3	34.2	30.4	50	91	66	1,003	1,008	1,006	0.0
9 Jun 24	25.0	34.4	30.0	50	100	69	1,003	1,007	1,005	1.6
10 Jun 24	25.3	30.8	28.0	73	100	90	1,004	1,008	1,006	9.0
11 Jun 24	26.0	33.1	29.6	52	100	76	1,006	1,009	1,008	0.0
12 Jun 24	26.3	34.1	29.5	52	99	81	1,008	1,011	1,009	0.0
13 Jun 24	26.7	36.5	31.5	44	99	69	1,005	1,010	1,008	0.0
14 Jun 24	26.8	36.5	31.9	43	99	63	1,003	1,008	1,006	0.0
15 Jun 24	26.8	37.9	31.7	36	99	66	1,002	1,007	1,005	0.0
16 Jun 24	26.8	37.3	30.2	42	99	74	1,003	1,008	1,006	5.0
17 Jun 24	26.2	36.9	29.7	46	100	82	1,004	1,008	1,006	10.0
18 Jun 24	25.7	37.4	29.8	43	99	83	1,004	1,008	1,006	0.8
19 Jun 24	25.6	37.7	30.5	43	99	74	1,002	1,007	1,005	0.0
20 Jun 24	26.8	36.2	31.4	43	98	62	1,002	1,006	1,005	0.0
21 Jun 24	27.7	35.5	30.9	45	82	64	1,001	1,006	1,004	0.0
22 Jun 24	26.7	35.4	31.0	44	97	63	1,000	1,005	1,003	0.0
23 Jun 24	27.8	33.7	30.1	48	92	66	1,002	1,006	1,004	0.0
24 Jun 24	26.0	32.4	29.2	56	99	72	1,002	1,006	1,004	0.4
25 Jun 24	26.1	33.7	29.2	47	99	74	1,002	1,007	1,004	0.6
26 Jun 24	24.9	31.7	27.8	69	100	93	1,004	1,008	1,006	5.2
27 Jun 24	26.9	34.6	30.2	50	99	79	1,005	1,009	1,007	0.0
28 Jun 24	24.6	36.4	28.9	46	100	85	1,004	1,009	1,007	36.0
29 Jun 24	25.4	34.4	28.8	58	100	88	1,005	1,010	1,007	0.0
30 Jun 24	24.2	35.1	28.6	49	100	85	1,006	1,010	1,009	15.4
Total	24.2	37.9	30.1	36	100	75	1,000	1,011	1,006	85.6
Day	30			30			30			30
Hours	720			720			720			720

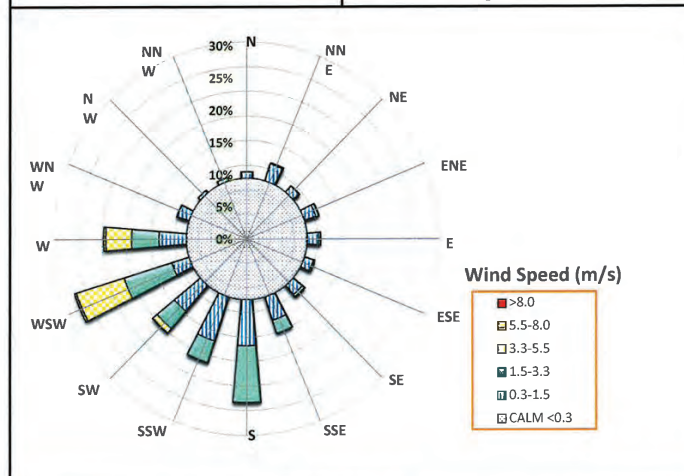
Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available



บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-30/June/2024

STATION : Ban Klong Klao



Wind Speed (m/s)						
Wind Sector	<0.3	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	ALL
N	0.97%	0.00%	0.00%	0.00%	0.00%	0.97%
NNE	2.78%	0.14%	0.00%	0.00%	0.00%	2.92%
NE	1.25%	0.00%	0.00%	0.00%	0.00%	1.25%
ENE	1.94%	0.42%	0.00%	0.00%	0.00%	2.36%
E	1.81%	0.28%	0.00%	0.00%	0.00%	2.08%
ESE	1.53%	0.14%	0.00%	0.00%	0.00%	1.67%
SE	1.94%	0.42%	0.00%	0.00%	0.00%	2.36%
SSE	3.89%	2.08%	0.00%	0.00%	0.00%	5.97%
S	7.22%	8.75%	0.14%	0.00%	0.00%	16.11%
SSW	7.22%	3.47%	0.14%	0.00%	0.00%	10.83%
SW	5.28%	3.47%	0.97%	0.00%	0.00%	9.72%
WSW	2.78%	7.78%	7.78%	0.28%	0.00%	18.61%
W	4.17%	4.31%	4.03%	0.28%	0.00%	12.78%
WNW	1.94%	0.00%	0.00%	0.00%	0.00%	1.94%
NW	0.42%	0.00%	0.00%	0.00%	0.00%	0.42%
NNW	0.56%	0.00%	0.00%	0.00%	0.00%	0.56%
	45.69%	31.25%	13.06%	0.56%	0.00%	90.56%

No. of Monitored Hours	720	Hours	No. of Calm	68	Hours
No. of Monitored Days	30	Days	Calm (%)	9.44%	
Missing Data	0	Hours	Average Wind Speed	1.71	m/s
No. of Valid Data	720	Hours	Maximum Wind Speed	6.10	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction		WSW

 บริษัท ผลิตไฟฟ้าราชบุรี จำกัด  
Ratchaburi Electricity Generating Co.,Ltd.

## MONTHLY REPORT

## AMBIENT AIR QUALITY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

MONTH : June

MONITORING STATION : Ban Chao Nua

YEAR : 2024

Date	Concentration					
	TSP ( $\mu\text{g}/\text{m}^3$ )	PM-10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> (ppb)		NO <sub>x</sub> (ppb)	O <sub>3</sub> (ppb)
	24-Hr Avg.	24-Hr. Avg.	24-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.	1-Hr. Avg.
1 Jun 24	18	17	1	1	3 - 8	2 - 39
2 Jun 24	22	19	1	1	2 - 7	3 - 28
3 Jun 24	24	22	1	1 - 2	2 - 9	3 - 26
4 Jun 24	26	24	1	1 - 2	2 - 8	1 - 29
5 Jun 24	17	16	1	1	2 - 8	3 - 37
6 Jun 24	17	16	1	1 - 2	1 - 7	4 - 31
7 Jun 24	20	19	1	1	2 - 10	6 - 29
8 Jun 24	25	N/A	1	1 - 2	1 - 9	4 - 38
9 Jun 24	11	N/A	1	1	1 - 4	12 - 29
10 Jun 24	14	N/A	1	1	2 - 9	3 - 28
11 Jun 24	22	20	1	1	2 - 8	2 - 37
12 Jun 24	23	21	1	1 - 2	2 - 9	5 - 28
13 Jun 24	26	23	1	1 - 2	1 - 6	2 - 34
14 Jun 24	23	22	1	1	1 - 6	2 - 29
15 Jun 24	23	22	1	1 - 2	1 - 8	2 - 28
16 Jun 24	20	20	1	1	1 - 7	5 - 34
17 Jun 24	23	22	1	1 - 3	2 - 8	2 - 39
18 Jun 24	18	15	1	1	2 - 9	2 - 33
19 Jun 24	25	24	1	1 - 2	2 - 8	2 - 35
20 Jun 24	12	11	1	1 - 2	1 - 4	6 - 28
21 Jun 24	14	13	1	1 - 2	2 - 6	5 - 31
22 Jun 24	11	10	1	1 - 2	1 - 6	8 - 37
23 Jun 24	12	11	1	1	1 - 6	6 - 30
24 Jun 24	12	11	1	1 - 2	2 - 7	6 - 35
25 Jun 24	12	11	1	1	1 - 9	5 - 35
26 Jun 24	14	11	1	1	3 - 13	2 - 35
27 Jun 24	26	24	1	1 - 2	2 - 10	2 - 41
28 Jun 24	17	16	1	1 - 2	2 - 9	2 - 48
29 Jun 24	19	18	1	1	3 - 10	2 - 39
30 Jun 24	16	14	1	1 - 2	3 - 6	2 - 42
Range	11 - 26	10 - 24	1	1 - 3	1 - 13	1 - 48
Number of times (exceeded standard)	0	0	0	0	0	0
Total Day	30	27	30	30	30	30
Monitoring Hour	684	623	688	688	688	687
Ambient Air Quality Standard	330	120	120	300	170	100

Remark :-	1) Standards	= Ambient Air Quality Standards of the National Environment Board
	2) TSP	= Total Suspended Particulate
	3) PM-10	= Particulate Matter less than 10 $\mu$ m
	4) SO <sub>2</sub>	= Sulfur Dioxide
	5) NO <sub>2</sub>	= Nitrogen Dioxide
	6) N/A	= Data not Available
	7) *	= Exceeding air quality standard
	8) -	= Not Measurement





บริษัท ผลิตไฟฟ้าราชบุรี จำกัด

Ratchaburi Electricity Generating Co.,Ltd.

MONTHLY REPORT

METEOROLOGY MONITORING RESULT

PROJECT : Ratchaburi Electricity Generating Co.,Ltd.

Month : June

MONITORING STATION : Ban Chao Nua

YEAR : 2024

Date	Temperature ( °C )			Relative Humidity ( % )			Pressure ( mb )			Rain Gauge
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Sum. (mm)
1 Jun 24	26.0	33.6	29.4	65	100	87	1,004	1,009	1,006	0.2
2 Jun 24	27.1	34.6	30.2	52	99	81	1,006	1,009	1,008	0.4
3 Jun 24	26.2	34.3	30.0	50	99	74	1,005	1,009	1,007	0.2
4 Jun 24	27.3	35.6	31.0	52	99	76	1,004	1,008	1,006	0.0
5 Jun 24	26.5	35.9	31.0	45	99	70	1,005	1,009	1,006	0.0
6 Jun 24	26.6	35.6	30.9	48	99	68	1,004	1,008	1,007	0.0
7 Jun 24	26.7	34.8	30.5	51	99	70	1,003	1,008	1,005	0.2
8 Jun 24	26.8	33.8	30.2	50	99	71	1,001	1,006	1,004	0.0
9 Jun 24	25.2	34.4	30.3	50	99	69	1,001	1,005	1,003	0.2
10 Jun 24	26.8	31.5	28.6	71	99	87	1,002	1,006	1,004	2.2
11 Jun 24	26.5	33.3	29.8	52	99	75	1,004	1,008	1,006	0.2
12 Jun 24	26.4	34.7	29.4	53	99	85	1,006	1,010	1,008	0.0
13 Jun 24	26.2	37.3	31.4	44	100	71	1,003	1,008	1,006	0.2
14 Jun 24	26.4	36.9	31.9	44	99	67	1,002	1,006	1,004	0.0
15 Jun 24	26.6	38.1	31.7	36	99	67	1,001	1,005	1,004	0.0
16 Jun 24	26.6	37.7	30.8	40	97	69	1,002	1,006	1,004	0.0
17 Jun 24	25.0	35.4	29.7	48	100	81	1,003	1,007	1,005	29.2
18 Jun 24	24.2	36.7	28.7	46	100	85	1,002	1,006	1,005	37.2
19 Jun 24	25.1	35.6	29.2	50	100	85	1,001	1,006	1,004	5.4
20 Jun 24	25.9	36.9	31.0	44	99	68	1,001	1,005	1,003	0.0
21 Jun 24	26.4	36.4	30.7	44	99	72	1,000	1,004	1,002	0.0
22 Jun 24	26.7	35.8	30.8	45	99	66	999	1,004	1,002	0.0
23 Jun 24	27.1	34.2	29.9	49	99	71	1,000	1,004	1,003	0.0
24 Jun 24	26.2	32.8	29.3	56	99	75	1,001	1,004	1,003	0.0
25 Jun 24	25.4	34.1	29.2	48	100	77	1,001	1,005	1,003	0.6
26 Jun 24	24.8	31.6	27.7	70	100	94	1,003	1,007	1,004	2.2
27 Jun 24	26.6	34.6	29.6	52	100	85	1,003	1,007	1,006	2.0
28 Jun 24	25.4	36.2	29.2	47	100	85	1,003	1,007	1,005	6.6
29 Jun 24	25.9	35.3	28.9	53	100	87	1,004	1,008	1,006	0.2
30 Jun 24	25.3	34.5	28.7	54	100	86	1,004	1,009	1,007	9.8
Total	24.2	38.1	30.0	36	100	77	999	1,010	1,005	97.0
Day	30			30			30			30
Hours	720			720			720			720

Remarks :- P = Power Fail , F = Equipment Fail , N/A = Data not Available

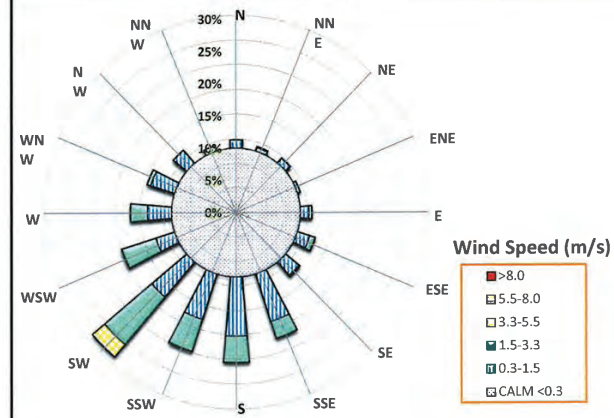


บริษัท ผลิตไฟฟ้าราชบุรี จำกัด

Ratchaburi Electricity Generating Co.,Ltd.

Date/Month/Year : 1-30/June/2024

STATION : Ban Chao Nua



Wind Speed (m/s)						
Wind Sector	0.3-1.5	1.5-3.3	3.3-5.5	5.5-8.0	>8.0	ALL
N	1.25%	0.00%	0.00%	0.00%	0.00%	1.25%
NNE	0.56%	0.14%	0.00%	0.00%	0.00%	0.69%
NE	0.97%	0.00%	0.00%	0.00%	0.00%	0.97%
ENE	0.42%	0.00%	0.00%	0.00%	0.00%	0.42%
E	1.39%	0.42%	0.00%	0.00%	0.00%	1.81%
ESE	2.08%	0.83%	0.00%	0.00%	0.00%	2.92%
SE	2.78%	0.14%	0.00%	0.00%	0.00%	2.92%
SSE	7.78%	2.78%	0.00%	0.00%	0.00%	10.56%
S	9.17%	4.17%	0.00%	0.00%	0.00%	13.33%
SSW	7.36%	5.28%	0.14%	0.00%	0.00%	12.78%
SW	7.08%	9.72%	2.50%	0.00%	0.00%	19.31%
WSW	3.06%	5.56%	0.14%	0.00%	0.00%	8.75%
W	3.75%	2.64%	0.00%	0.00%	0.00%	6.39%
WNW	3.89%	0.56%	0.00%	0.00%	0.00%	4.44%
NW	2.64%	0.00%	0.00%	0.00%	0.00%	2.64%
NNW	0.83%	0.00%	0.00%	0.00%	0.00%	0.83%
	55.00%	32.22%	2.78%	0.00%	0.00%	90.00%

No. of Monitored Hours	720	Hours	No. of Calm	72	Hours
No. of Monitored Days	30	Days	Calm (%)	10.00%	
Missing Data	0	Hours	Average Wind Speed	1.29	m/s
No. of Valid Data	720	Hours	Maximum Wind Speed	4.30	m/s
Wind Rose by : Air Quality and Noise Section : 2020/05			Prevailing Wind Direction		SW