RELIANCE

Rosa Power Supply
Company Limited
CIN: U3110MH1994PLC243148

Administrative Block, Hardoi Road,
P.O. Rausar Kothi, Tehsil-Sadar,
District – Shahjahanpur
Uttar Pradesh 242 406

Tel: +91 05842 306600
Fax: +91 05842 300003
www.reliancepower.co.in

Ref: RPSCL/ENV/STATEMENT/04/2024/06 **Date: 23.04.2024**

To,
The Member Secretary
Uttar Pradesh Pollution Control Board
TC 12 B- Vibhuti Khand
Gomati Nagar, Lucknow

Sub: Submission of Environment Statement (FORM V) of FY 2023-24 for Stage I & II

Dear Sir,

This is with reference to the Air & Water (Both) CCA (Consolidated Consent & authorization) (Fresh) under Section-25 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section-21 of the Air (Prevention & Control of Pollution) Act, 1981 **Ref No-192619/UPPCB/Bareilly(UPPCBRO)/CTO/both/SHAHJAHANPUR/2023 Dated:02.02.2024** and **Application No- 22729975 Dated:18.09.2023** for Stage-I, issued to us. CCA (Consolidated Consent & authorization) is valid till 31st December 2028 and **Ref No- 192998/UPPCB/Bareilly (UPPCBRO)/CTO/both/SHAHJAHANPUR/2023 Dated: 02.02.2024** and **Application No-22797427 Dated: 18.09.2023** for Stage-II, issued to us. CCA (Consolidated Consent & authorization) is valid till 31st December 2028 issued to us and Environmental Clearance **J-13011/19/2005-IA.II(T) dated 14.03.2006** for Stage I & Environmental Clearance **J-13011/73/2007-IA.II(T)** dated **20.07.2009** for stage II.

As advised, please find enclosed the Environmental Statement for the Stage I & II of the FY 2023-2024 both in soft as well as hard copy.

Thanking You,

For Rosa Power Supply Co. Ltd.

ROSA POWER SUPPLY COMPANY LIMITED SHAHJAHANPUR

(Authorized Signatory)

Cc: (I) Regional Officer UPPCB Bareilly
(II) Regional Officer MoEF Lucknow

ENVIRONMENTAL STATEMENT

OF

Rosa Power Supply Company Ltd.
Shahjahanpur (U.P.)

2 x 300 MW (STAGE-I)

FINANCIAL YEAR ENDING THE 31st MARCH, 2024

Prepared by:

Rosa Power Supply Company Ltd.
Shahjahanpur (U.P.)

ROSA POWER SUPPLY COMPANY LIMITED * SHAHJAHANPUR

(FORM – V)

(See Rule 14)

Environmental Statement Report for the Financial Year ending 31st March, 2024.

PART – A

(i)	Name and address of the Owner/occupier of the Industry operation or process	:	Mr. H S Tomar Rosa Power Supply Co. Ltd. P.O.-Rausar Kothi Hardoi Road Distt. – Shahjahanpur(U.P.)
(ii)	Production Capacity	:	2X300 MW
(iii)	Year of Establishment	:	March 2010
(iv)	Date of Last environmental statement submitted	:	06.05.2023
(v)	Industry category Primary : (STC Code) Secondary : (SIC Code)	:	Thermal Power Plant Coal Based

ROSA POWER SUPPLY COMPANY LIMITED
SHAHJAHANPUR

PART – B

(Water and Raw Material Consumption)

1. **Water Drawn M^3/Day**

(All values indicate Annual consumption)

			FY 2022-23	FY 2023-24	Remarks
(I)	Gross Energy Generation (MU)	:	3909.08	3924.40	Unit Generation is more than previous year.
(ii)	Water consumption	:	9953007 M^3	10810199 M^3	Total Water Consumption is more due to more generation than previous year.
(iii)	Process	:	2149849 M^3	2335003 M^3	-do-
(iv)	Condenser Cooling	:	7774293 M^3	8443846 M^3	-do-
(v)	Domestic	:	28863 M^3	31350 M^3	-do-

S.No.	Name of the product	Process water Consumption per unit of product output.	
		FY 2022-23	FY 2023-24
1	Electricity	0.55 Ltr/ Unit*	0.59 Ltr/ Unit*

**The specific process water consumption was more due to more PLF in summer season.*

2. **Raw Material Consumption**

Name of Raw Material	Name of the product	Consumption of Raw Material unit of output			
		FY 2022-23		FY 2023-24	
Coal	Electricity	Total Consumption (MT)	2420465	Total Consumption (MT)	2434516
		Specific Consumption per kw	0.62	Specific Consumption per kw	0.62

*The Specific Coal consumption is similar as compared to previous year due to efficient Operation.

ROSA POWER SUPPLY COMPANY LIMITED ★ SHAHJAHANPUR

PART – C

Pollution discharged to Environment/Unit of output

(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutions discharged (mass/day) Kg/day	Concentration of Pollutants in discharge (mass/volume) Kg/m3	Percentage of variation from prescribed Standards
Treated Effluent Discharge*			
Unit **Limit**			**% below –**
pH 5.5. to 9.0	----	----	**70%**
SS < 100 mg/l	0.02	0.028	**95%**
Oil & Grease < 10 mg/l	0.00	0.000	**86.7%**
$BOD_{3\ day}$ < 30 mg/l	0.00	0.007	**82.4%**
COD < 250 mg/l	0.02	0.038	
Air**			
SPM-Unit 1	1860.18	47.50	-
SPM- Unit 2	1811.33 Kg/ day	47.34 mg/Nm^3	

*-Above data taken from test report of MoEF approved Laboratory for the sample taken on 30.03.2024 and average treated effluent flow is 0.30 CuM/day. (Refer Annexure_1.)

**- As per Test Report of MoEF approved Laboratory dated 05.03.2024 of Unit 1 & dated 12.03.2024 of Unit 2 of Stage_1 respectively (Enclosed as Annexure_2)

POWER SUPPLY COMPANY LTD SHAHJAHANPUR

PART – D

HAZARDOUS WASTES

(As specified under Hazardous wastes/management & Handling Rules, 1989)

Hazardous Wastes		Total Qty (KG)	
		FY 2022-23	FY 2023-24
(a)	From Process	10.93 KL (Spent oil) 178.00 kg (Waste containing oil)	38.58 KL (Spent oil) 4734.22 kg (Waste containing oil)
(b)	From Pollution Control facilities	2.19 KL	7.72 KL

The RPSCL has obtained Hazardous Waste Authorization from UPPCB for Collection & Storage of Hazardous waste.

Waste/ Spent Oil is collected at centrally located point in isolated stores area meant for them in sealed drums, which is further sent to authorized recycler for disposal as per norms of MoEF.

ROSA POWER SUPPLY COMPANY LIMITED SHAHJAHANPUR

PART – E

SOLID WASTES

Total Quantity

Solid Wastes:

Solid Wastes:	Total Qty (Metric tonne or MT)	
	FY 2022-23	FY 2023-24
(i) From Process	177329 MT (Bottom Ash)	175506 MT (Bottom Ash)
(ii) From Pollution Control Facilities • Ash • STP Sludge	• 709320 MT • 20.82 MT	• 702025 MT • 21.14 MT
c) I. Quantity recycled or re-utilized within unit II. Sold* (Fly Ash) III. Disposed (Bottom Ash)	I. 202 II. 543515 ------ III. 274496 ------	IV. 31983.83 V. 00 ------ VI. 00 ------

❖ **The ash is given to various agencies free of cost.*

ROSA POWER SUPPLY COMPANY LIMITED ★ SHAHJAHANPUR

PART – F

Indicate disposal practice adopted for Hazardous as well as solid waste

a) **Coal Ash:** As per MoEF guidelines, ash is being given to outside brick unit other than brick kiln; various cement industries for using ash as ingredients in their cement manufacturing units from our silo in closed trucks. Pond ash is lifted for Ash Pond dyke bund rising.

b) **Used Batteries:** Collected centrally at store in isolated place for disposal to authorized agencies as per MoEF guidelines.

c) **Hazardous waste:** Waste oil, Oil soaked cotton is collected in store for disposal to authorized agencies as per latest guidelines of MoEF.

d) **E-**Waste- E-Waste is collected in store for disposal to authorized agencies as per latest guideline of MoEF.

e) **Bio-**Medical Waste- Bio-medical waste is picked up by authorized agencies on daily basis from health centre.

PART – G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

Pollution Control facilities such as ETP/ STP help in conservation of water resources. The treated water from ETP & STP is used for Ash Handling & Horticulture. Also, the plant is operated on a CoC of more than 5 as against the designed CoC of more than 4 which is helping in further water conservation. All these measures effectively reduce the fresh water intake.

PART – H

Additional investment proposal for environmental protection abatement of pollution, prevention of pollution

1. Tree Plantation is being carried out in and around the plant premises. Total 16550 nos. of trees and shrubs have been planted in the FY 2023-24 (common for stage 1 & 2). Total 601752 trees has been planted so far in area of 283 Ha i.e approx 46% against 33% greenbelt of MoEF Guideline.
2. During Financial year 2023-24 total expenditure of Rs 1.5 Cr approximately done on horticulture & greenery development (common for stage 1 & 2).
3. Company has successfully passed the surveillance Audit for the Environment Management System Certification (ISO 14001:2015).
4. Continuous Air Quality Monitoring Stations (CAAQMS) have been installed in FY 2013-14, Continuous Effluent Monitoring System (CEMS) have been installed in FY 2014-15, and Connected data of Stack Emission, Effluent with CPCB Server in FY 2015-16, Online Coal Ash Analyser in FY 2017-18, Remote Calibration Facility in FY 2019-20 of CEMS, Modification of STP CHP in FY 2020-21, Modification of STP Switchyard (Plant site) in FY 2023-24 with an approximate investment of Rs 1.5 crore, 13 Lacs, 5 Lacs, 34 Lacs, 23.50 Lacs and 18 Lacs approximately respectively. One CAAQMS station with online weather station has been upgraded with E series costing approx 45 lacs.

ROSA POWER SUPPLY COMPANY LIMITED SHAHJAHANPUR

PART – I

Any other particulars for improving the quality of environment.

(1) We are complying with all the directions and conditions of state and central pollution boards and regular Water & Air consents are in force.

(2) Regular monitoring of Noise level, AAQ, Waste and Stack Gases is being done. Waste water treatment and recycling is in practice.

(3) Almost 16550 Tree and shrubs Plantation has been done in the year 2023-24 for improving the quality of environment (commonly for Stage 1 & 2).

(4) Water conservation by Ash water recirculation.

(5) To further improve the treated water quality at plant STP, Dual Media Filter has been provided.

(6) Tree plantation, Prabhat Pheri and Quiz programmes organized on World Environment Day-2023 to increase environmental awareness among employees (Photographs enclosed as Annexure_3)

(7) Training to employees from different departments has been given on Environmental Management System (ISO 14001:2015) and environmental aspect impact assessment

(8) Good Practices/ Environmental Improvement Plans were made to achieve continual Improvement of Environment.

Note: Environmental Monitoring reports of AAQ, Noise, STP, and ETP are enclosed as Annexure 4, 5, 6 & Refer Annexure 1 respectively.

Following Environmental Improvement Plans were done during the FY 2023-24

(1) Waste Disposal - Different color coding of drums for Oily waste and General Waste, Segregation of E-waste, Electrical waste

(2) PCC of the oil storage shed at maintenance yard of all contractors' area

(3) Agreement for Biomedical waste disposal with approved agency and renewal of Bio Medical Waste Authorization

(4) Remote Calibration facility with CPCB server upgraded for online Stack Emission Data as per CPCB Guideline.

(5) Re-utilising the treated effluent from Coal Settling Pit for dust suppression in CHP Area

(6) Interconnecting sewage water of admin building and fire station with STP for optimum utilization of Sewage Treatment Plant. Also new STP of 10 KLD installed at CHP area to treat sewage water.

ROSA POWER SUPPLY COMPANY LIMITED SHAHJAHANPUR

Advanced Environmental Testing And Research Lab P. Ltd.

CIN: U73100MP2002PTC015352 GSTIN: 23AAECA9188L1Z8

Approved: by Occupational Health &Safety Management (ISO45001:2018)
Approved: by National Accreditation Board for Testing and Calibration Laboratories
Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II
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Web: www,aetrl.com

TC-12780

Annexure - 01

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	31/03/2024
Nature of Sample	:	Effluent Water Sample	**Qty of Sample**	:	1.0Ltr
Lab. Ref. No.	:	AERL/300324WW0001	**Sample Bottle**	:	1 Ltr Jerry can
Dispatch No.	:	**0020**	**Sample Description**	:	ETP Outlet
Sample Collected by		Sampling Staff	**D/o Sample Taken**		30/03/2024
D/o Sample Analysis	:	31/03/2024	**D/o of Completion Analysis**	:	05/04/2024

TEST RESULT

S. No.	PARAMETER	UNIT	PROTOCOL	RESULTS	Standard (CPCB) (max)	
					Inlands Surface Water	Public Sewer
1	pH	.....	APHA 4500 H+B	7.64	6.5 – 8.5	6.5 – 8.5
2	Total Suspended Solids(TSS)	Mg/l	APHA 4500 H+B	28	100	600
3	Bio-Chemical Oxygen Demand (3days at 27^0C)(BOD)	Mg/l	APHA 4500 (D)	7	30	350
4	Chemical Oxygen Demand (COD)	Mg/l	APHA 4500 (B)	38	250	NS
5	Oil & Grease (O&G)	Mg/l	APHA 4500 (B)	BDL	10	20
6	Total Coliform	MPN/IOO ml	IS 15185-2016 RA 2019	Absent	-	-
7	Feacal Coliform	MPN/IOO ml	IS 15185-2016 RA 2019	Absent	1000	-

(Authorized Signatory)

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0751-3566867, 2232177
Email:aelgwalior@gmail.comaetrl2016@gmail.com,aetrlcenter@gmail.com
Web: www,aetrl.com
TC-12780

Annexure- 02

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05.04.2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	01.03.2024 to 31.03.2024
Location	:	Stack Monitoring	**Monitoring Conducted by**	:	Sampling Staff
Source of Monitoring	:	Boiler Stack -1 (Bi-Flue) of Stage - 1	**Environmental Conditions during Sampling**	:	Sunny
Lab. Ref. No.	:		**Material of Construction**	:	MS
Dispatch No.	:		**Height From Ground Level**		65 M

	Boiler Stack – 1
Stack Area / Shape	05M/ Circular
Capacity	1025 TPH
Type of Fuel Used/Consumption per day	Coal/ 190tph
Thimble No.	March-01,March-05March-09 March-13
Stack Height (M)	275

TEST RESULT

S.No.	Parameter	Unit	Monitoring Date				Protocol/Method Followed
			05.03.2024	12.03.2024	19.03.2024	26.03.2024	
1.	Temperature	^0C	128.00	125.00	127.00	130.00	
2.	Velocity	m/s	31.25	30.83	32.67	31.25	
3.	Sulphur dioxides (SO_2) without O_2 correction	(mg/Nm3)	1144.00	1125.33	1146.67	1104.00	IS:11255(Pt-2)2005 (Reaffirmed – 2009)
	Sulphur dioxides (SO_2) with6% O_2 correction		1131.55	929.77	1073.99	926.95	
4.	Oxides of Nitrogen NO-NO_2(NOx) without O_2 correction	(mg/Nm3)	382.86	339.52	375.63	310.62	IS:11255(Pt-2)2005 (Reaffirmed – 2012)
	Oxides of Nitrogen NO-NO_2(NOx) with6% O_2 correction		378.69	280.51	351.83	260.81	
5.	Particulate matter (PM)	(mg/Nm3)	47.50	46.60	47.19	48.54	IS:11255(Pt-I)1985 (Reaffirmed – 2003)

Authorized Signatory

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TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05.04.2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	01.03.2024 to 31.03.2024
Location	:	Stack Monitoring	**Monitoring Conducted by**	:	Sampling Staff
Source of Monitoring	:	Boiler Stack -2 (Bi-Flue) of Stage - 1	**Environmental Conditions during Sampling**	:	Sunny
Lab. Ref. No.	:		**Material of Construction**	:	MS
Dispatch No.	:		**Height From Ground Level**		65 M

	Boiler Stack - 2
Stack Area / Shape	05M/ Circular
Capacity	1025 TPH
Type of Fuel Used/Consumption per day	Coal/ 190tph
Thimble No.	March-02,March-06March-10 March-14
Stack Height (M)	275

TEST RESULT

S.No.	Parameter	Unit	Monitoring Date				Protocol/Method Followed
			05.03.2024	**12.03.2024**	**19.03.2024**	**26.03.2024**	
1.	Temperature	^{0}C	129.00	126.00	130.00	128.00	
2.	Velocity	m/s	29.03	30.37	29.61	30.08	
3.	Sulphur dioxides (SO_2) without O_2 correction	(mg/Nm3)	1173.33	1136.00	1162.67	1168.00	IS:11255(Pt-2)2005 (Reaffirmed – 2009)
	Sulphur dioxides (SO_2) with6% O_2 correction		1110.76	962.44	951.97	941.94	
4.	Oxides of Nitrogen NO-NO_2(NOx) without O_2 correction	(mg/Nm3)	332.29	325.07	317.84	296.17	IS:11255(Pt-2)2005 (Reaffirmed – 2012)
	Oxides of Nitrogen NO-NO_2(NOx) with6% O_2 correction		314.57	275.40	260.24	238.85	
5.	Particulate matter (PM)	(mg/Nm3)	46.06	47.34	48.66	46.55	IS:11255(Pt-I)1985 (Reaffirmed – 2003)

Authorized Signatory

WORLD ENVIRONMENT DAY

RELIANCE

World Environment Day 2023
#BeatPlasticPollution

Programme Schedule

RELIANCE

A	Programme (5th June 2023)	Timing
1	Prabhat Pheri at Township	05.30AM
2	Tree Plantation (CHP Area)	9:45 AM
3	Online Quiz Competition for employee	04:00 PM to 05:00 PM

B	Programme	Timing
1	**Poster Competition** **(White Color – A0/ A1 Chart Paper)**	
	Topic for Employees , Children and Associates: "Beat Plastic Pollution to Restore Ecosystem".	**Prepare at home & Submit to EHS Dept. by 3rd June 2023 (2.30 PM)**

C	Programme	Timing
1	**Environment Quiz Competition and Environment Awareness Programme for Children**	04:30 PM to 05:30 PM at Township Club on 04.06.2023 (Sunday)

Prabhat Pheri at Township

Tree Plantation (CHP Area)

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Annexure - 04

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	As per Schedule
Nature of Sample	:	Ambient Air Monitoring	**Qty of Sample**	:	30 ml
Lab. Ref. No.	:	AERL/300324A0005	**Sample Bottle**	:	Plastic packing & Filter paper
Dispatch No.	:	**0020**	**Sample Location**	:	Chaudhera
Sample Collected by		Sampling Staff			

TEST RESULT

S. No.	Parameters	Unit	04.03.2024	08.03.2024	11.03.2024	15.03.2024	18.03.2024	22.03.2024	27.03.2024	29.03.2024	Standards
1.	Particulate matter (less than 10 µm)	µg/m³	70.59	76.98	70.89	74.69	72.86	74.89	75.34	75.16	100/Day
2.	Particulate matter (less than 2.5 µm)	µg/m³	30.24	34.28	28.69	32.59	32.89	34.00	32.15	35.12	60/Day
3.	Sulphur Dioxide (SO_2)	µg/m³	24.59	27.49	20.36	27.59	24.79	28.67	25.64	25.07	80/Day
4.	Nitrogen Dioxide (NO_2)	µg/m³	10.89	15.21	11.31	9.00	17.34	14.26	10.59	11.38	80/Day
5.	Ozone (O_3)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	100/8*Hours
6.	Lead (Pb)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m³	0.034	0.029	0.024	0.026	0.031	0.032	0.028	0.024	02/8*Hours
8.	Ammonia (NH_3)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C_6H_6)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
10.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified

.

(Authorized Signatory)

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TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	As per Schedule
Nature of Sample	:	Ambient Air Monitoring	**Qty of Sample**	:	30 ml
Lab. Ref. No.	:	AERL/300324A0006	**Sample Bottle**	:	Plastic packing & Filter paper
Dispatch No.	:	**0020**	**Sample Location**	:	Bilandapur
Sample Collected by		Sampling Staff			

TEST RESULT

S. No.	Parameters	Unit	05.03.2024	09.03.2024	12.03.2024	16.03.2024	19.03.2024	23.03.2024	26.03.2024	30.03.2024	Standards
1.	Particulate matter (less than 10 µm)	µg/m³	75.89	73.58	70.28	71.08	75.00	73.25	74.00	76.24	100/Day
2.	Particulate matter (less than 2.5 µm)	µg/m³	30.59	28.69	30.59	27.69	34.56	26.87	30.89	36.25	60/Day
3.	Sulphur Dioxide (SO_2)	µg/m³	24.56	18.79	20.13	19.68	27.58	18.67	27.12	29.31	80/Day
4.	Nitrogen Dioxide (NO_2)	µg/m³	15.64	10.69	11.59	12.54	15.67	10.59	19.71	15.34	80/Day
5.	Ozone (O_3)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	100/8*Hours
6.	Lead (Pb)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m³	0.028	0.027	0.035	0.034	0.027	0.021	0.032	0.03	02/8*Hours
8.	Ammonia (NH_3)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C_6H_6)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
10.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified

(Authorized Signatory)

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Email:aelgwalior@gmail.comaetrl2016@gmail.com,aetrlcenter@gmail.com
Web: www,aetrl.com

TC-12780

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	As per Schedule
Nature of Sample	:	Ambient Air Monitoring	**Qty of Sample**	:	30 ml
Lab. Ref. No.	:	AERL/300324A0007	**Sample Bottle**	:	Plastic packing & Filter paper
Dispatch No.	:	**0020**	**Sample Location**	:	Behti
Sample Collected by		Sampling Staff			

TEST REULT

S. No.	Parameters	Unit	04.03.2024	08.03.2024	11.03.2024	15.03.2024	18.03.2024	22.03.2024	27.03.2024	29.03.2024	Standards
1.	Particulate matter (less than 10 µm)	µg/m³	74.89	77.48	75.21	75.89	74.69	77.68	72.69	76.01	100/Day
2.	Particulate matter (less than 2.5 µm)	µg/m³	31.26	30.69	24.81	34.81	34.18	35.16	30.69	30.71	60/Day
3.	Sulphur Dioxide (SO_2)	µg/m³	28.34	26.41	18.47	28.14	28.46	31.56	22.98	29.34	80/Day
4.	Nitrogen Dioxide (NO_2)	µg/m³	13.47	16.81	9.00	14.21	15.31	18.37	9.46	14.81	80/Day
5.	Ozone (O_3)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	100/8*Hours
6.	Lead (Pb)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m³	0.029	0.03	0.034	0.022	0.029	0.025	0.031	0.022	02/8*Hours
8.	Ammonia (NH_3)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C_6H_6)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
10.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified

(Authorized Signatory)

Advanced Environmental Testing And Research Lab P. Ltd.

CIN: U73100MP2002PTC015352 GSTIN: 23AAECA9188L1Z8

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TC-12780

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	As per Schedule
Nature of Sample	:	Ambient Air Monitoring	**Qty of Sample**	:	30 ml
Lab. Ref. No.	:	AERL/300324A0008	**Sample Bottle**	:	Plastic packing & Filter paper
Dispatch No.	:	**0020**	**Sample Location**	:	Barakatpur
Sample Collected by		Sampling Staff			

TEST RESULT

S. No.	Parameters	Unit	05.03.2024	09.03.2024	12.03.2024	16.03.2024	19.03.2024	23.03.2024	26.03.2024	30.03.2024	Standards
1.	Particulate matter (less than 10 µm)	µg/m³	76.84	71.59	72.36	72.94	78.47	73.89	74.38	74.89	100/Day
2.	Particulate matter (less than 2.5 µm)	µg/m³	33.14	32.58	28.67	30.58	36.57	27.69	34.25	34.57	60/Day
3.	Sulphur Dioxide (SO_2)	µg/m³	20.89	21.51	22.19	22.46	29.41	19.34	26.41	27.16	80/Day
4.	Nitrogen Dioxide (NO_2)	µg/m³	10.89	14.87	14.21	19.46	18.71	12.47	12.46	18.00	80/Day
5.	Ozone (O_3)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	100/8*Hours
6.	Lead (Pb)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m³	0.026	0.028	0.034	0.035	0.029	0.025	0.032	0.033	02/8*Hours
8.	Ammonia (NH_3)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C_6H_6)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
10.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified

(Authorized Signatory)

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TC-12780

Annexure - 05

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	As per Schedule
Nature of Sample	:	Noise Monitoring	**Qty of Sample**	:	NA
Lab. Ref. No.	:	AERL/300324N0001	**Sample Bottle**	:	NA
Dispatch No.	:	**0020**	**Sample Location**	:	Coal handling Plant
Sample Collected by		Sampling Staff			

TEST RESULT

Date	DAY			NIGHT		
	L Min	**L Max**	**Leq**	**L Min**	**L Max**	**Leq**
06.03.2024	61.80	69.40	66.90	60.80	67.20	64.05
13.03.2024	62.40	69.20	65.71	59.00	65.90	63.33
20.03.2024	63.80	69.20	66.92	58.90	65.40	63.27
27.03.2024	59.00	69.40	65.26	63.70	63.70	61.30
MONTHLY AVERAGE	**61.75**	**69.30**	**66.20**	**60.60**	**65.55**	**62.99**
MIN Leq			**65.26**	**MIN Leq**		**61.30**
MAX Leq			**66.92**	**MAX Leq**		**64.50**

(Authorized Signatory)

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TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	As per Schedule
Nature of Sample	:	Noise Monitoring	**Qty of Sample**	:	NA
Lab. Ref. No.	:	AERL/300324N0002	**Sample Bottle**	:	NA
Dispatch No.	:	**0020**	**Sample Location**	:	Permanent Store
Sample Collected by		Sampling Staff			

TEST RESULT

Date	DAY			NIGHT		
	L Min	**L Max**	**Leq**	**L Min**	**L Max**	**Leq**
07.03.2024	59.00	66.10	62.61	58.10	64.20	61.36
14.03.2024	59.90	68.00	64.16	58.20	62.50	60.27
21.03.2024	59.90	66.80	63.66	60.30	68.40	64.88
28.03.2024	57.00	65.30	61.78	56.80	63.80	60.30
MONTHLY AVERAGE	**58.95**	**66.55**	**63.05**	**58.35**	**64.73**	**61.70**
MIN Leq			**61.78**	**MIN Leq**		**60.27**
MAX Leq			**64.16**	**MAX Leq**		**64.88**

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TC-12780

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	As per Schedule
Nature of Sample	:	Noise Monitoring	**Qty of Sample**	:	NA
Lab. Ref. No.	:	AERL/300324N0003	**Sample Bottle**	:	NA
Dispatch No.	:	**0020**	**Sample Location**	:	1 meter from D.G. Area
Sample Collected by		Sampling Staff			

TEST RESULT

Date	DAY			NIGHT		
	L Min	**L Max**	**Leq**	**L Min**	**L Max**	**Leq**
06.03.2024	64.20	70.20	67.06	52.30	56.10	54.77
13.03.2024	62.30	66.50	64.19	50.20	56.30	54.01
20.03.2024	64.50	68.90	66.93	50.40	54.20	52.14
27.03.2024	64.50	69.20	66.97	54.30	56.30	55.44
MONTHLY AVERAGE	**63.88**	**68.70**	**66.29**	**51.80**	**55.73**	**54.09**
MIN Leq			**64.19**	**MIN Leq**		**52.14**
MAX Leq			**67.06**	**MAX Leq**		**55.44**

(Authorized Signatory)

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TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	As per Schedule
Nature of Sample	:	Noise Monitoring	**Qty of Sample**	:	NA
Lab. Ref. No.	:	AERL/300324N0004	**Sample Bottle**	:	NA
Dispatch No.	:	**0020**	**Sample Location**	:	Chaudhera
Sample Collected by		Sampling Staff			

TEST RESULT

Date	DAY			NIGHT		
	L Min	**L Max**	**Leq**	**L Min**	**L Max**	**Leq**
07.03.2024	51.20	55.40	53.30	44.90	54.10	49.90
14.03.2024	51.60	55.90	53.77	43.90	57.30	52.58
21.03.2024	51.80	56.50	53.99	50.80	59.20	54.34
28.03.2024	53.20	56.30	54.98	49.60	59.40	56.07
MONTHLY AVERAGE	**51.95**	**56.03**	**54.01**	**47.30**	**57.50**	**53.22**
MIN Leq			**53.30**	**MIN Leq**		**49.90**
MAX Leq			**54.98**	**MAX Leq**		**56.07**

(Authorized Signatory)

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TC-12780

Annexure - 06

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	31/03/2024
Nature of Sample	:	Sewage Water Sample	**Qty of Sample**	:	1.0Ltr
Lab. Ref. No.	:	AERL/300324WW0003	**Sample Bottle**	:	1 Ltr Jerry can
Dispatch No.	:	**0020**	**Sample Description**	:	Outlet Sample STP Town Ship
Sample Collected by		Sampling Staff	**D/o Sample Taken**		30/03/2024
D/o Sample Analysis	:	31/03/2024	**D/o of Completion Analysis**	:	05/04/2024

TEST RESULT

S. No.	PARAMETER	UNIT	PROTOCOL	RESULTS	Standard (CPCB) (max)	
					Inlands Surface Water	Public Sewer
1.	pH	.....	APHA 4500 H+B	7.74	6.5 – 8.5	6.5 – 8.5
2.	Total Suspended Solids(TSS)	Mg/l	APHA 4500 H+B	40	100	600
3.	Bio-Chemical Oxygen Demand (3days at 27^{0}C)(BOD)	Mg/l	APHA 4500 (D)	6.0	30	350
4.	Chemical Oxygen Demand (COD)	Mg/l	APHA 4500 (B)	46	250	NS
5.	Oil & Grease (O&G)	Mg/l	APHA 4500 (B)	BDL	10	20
6	Total Coliform	MPN/IOO ml	IS 15185-2016 RA 2019	28	-	-
7	Feacal Coliform	MPN/IOO ml	IS 15185-2016 RA 2019	Absent	1000	-

(Authorized Signatory)

Advanced Environmental Testing And Research Lab P. Ltd.

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TC-12780

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	31/03/2024
Nature of Sample	:	Sewage Water Sample	**Qty of Sample**	:	1.0Ltr
Lab. Ref. No.	:	AERL/300324WW0005	**Sample Bottle**	:	1 Ltr Jerry can
Dispatch No.	:	**0020**	**Sample Description**	:	Outlet Sample STP Plant Site
Sample Collected by		Sampling Staff	**D/o Sample Taken**		30/03/2024
D/o Sample Analysis	:	31/03/2024	**D/o of Completion Analysis**	:	05/04/2024

TEST RESULT

S. No.	PARAMETER	UNIT	PROTOCOL	RESULTS	Standard (CPCB) (max)	
					Inlands Surface Water	Public Sewer
1.	pH	.....	APHA 4500 H+B	7.58	6.5 – 8.5	6.5 – 8.5
2.	Total Suspended Solids(TSS)	Mg/l	APHA 4500 H+B	44.0	100	600
3.	Bio-Chemical Oxygen Demand (3days at 27^0C)(BOD)	Mg/l	APHA 4500 (D)	8.0	30	350
4.	Chemical Oxygen Demand (COD)	Mg/l	APHA 4500 (B)	40.0	250	NS
5.	Oil & Grease (O&G)	Mg/l	APHA 4500 (B)	BDL	10	20
6	Total Coliform	MPN/IOO ml	IS 15185-2016 RA 2019	18	-	-
7	Feacal Coliform	MPN/IOO ml	IS 15185-2016 RA 2019	Absent	1000	-

(Authorized Signatory)

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TC-12780

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	31/03/2024
Nature of Sample	:	Sewage Water Sample	**Qty of Sample**	:	1.0Ltr
Lab. Ref. No.	:	AERL/300324WW0007	**Sample Bottle**	:	1 Ltr Jerry can
Dispatch No.	:	**0020**	**Sample Description**	:	Outlet Sample STP CHP Site
Sample Collected by		Sampling Staff	**D/o Sample Taken**		30/03/2024
D/o Sample Analysis	:	31/03/2024	**D/o of Completion Analysis**	:	05/04/2024

TEST RESULT

S. No.	PARAMETER	UNIT	PROTOCOL	RESULTS	Standard (CPCB) (max)	
					Inlands Surface Water	Public Sewer
1.	pH	.....	APHA 4500 H+B	7.66	6.5 – 8.5	6.5 – 8.5
2.	Total Suspended Solids(TSS)	Mg/l	APHA 4500 H+B	48.0	100	600
3.	Bio-Chemical Oxygen Demand (3days at 27^{0}C)(BOD)	Mg/l	APHA 4500 (D)	5.0	30	350
4.	Chemical Oxygen Demand (COD)	Mg/l	APHA 4500 (B)	42.0	250	NS
5.	Oil & Grease (O&G)	Mg/l	APHA 4500 (B)	BDL	10	20
6	Total Coliform	MPN/IOO ml	IS 15185-2016 RA 2019	24	-	-
7	Feacal Coliform	MPN/IOO ml	IS 15185-2016 RA 2019	Absent	1000	-

(Authorized Signatory)

ENVIRONMENTAL STATEMENT

OF

Rosa Power Supply Company Ltd.
Shahjahanpur (U.P.)

2 x 300 MW (Stage-II)

FINANCIAL YEAR ENDING THE 31st MARCH, 2024

Prepared by:

Rosa Power Supply Company Ltd.
Shahjahanpur (U.P.)

ROSA POWER SUPPLY COMPANY LIMITED
SHAHJAHANPUR

(FORM – V)

(See Rule 14)

Environmental Statement Report for the Financial Year ending the 31st March, 2024.

PART – A

(i)	Name and address of the Owner/occupier of the Industry operation or process	:	Mr. H S Tomar Rosa Power Supply Co. Ltd. Rausar Kothi Hardoi Road Distt. – Shajahanpur(U.P.)
(ii)	Production Capacity	:	2X300 MW
(iii)	Year of Establishment	:	Jan 2012
(iv)	Date of Last environmental statement submitted	:	06.05.2023
(v)	Industry category Primary : (STC Code) Secondary : (SIC Code)	:	Thermal Power Plant

ROSA POWER SUPPLY COMPANY LIMITED ★ SHAHJAHANPUR

PART – B

(Water and Raw Material Consumption)

1. **Water Drawn M^3/Day**

(All values indicate Annual consumption)

			FY 2022-23	FY 2023-24	Remarks
(I)	Gross Energy Generation (MU)	:	3601.81	3685.30	Unit Generation is more than previous year.
(ii)	Water consumption	:	5360413 M^3	4968617 M^3	Total Water Consumption is more due to more generation than previous year.
(iii)	Process	:	1157849 M^3	1073221 M^3	-do-
(iv)	Condenser Cooling	:	4187018 M^3	3880987 M^3	-do-
(v)	Domestic	:	15545 M^3	14409 M^3	-do-

S.No.	Name of the product	Process water Consumption per unit of product output.	
		FY 2022-23	FY 2023-24
1	Electricity	**0.32 Ltr/Unit***	**0.29 Ltr/Unit***

**The specific process water consumption was less due to* efficient Operation.

2. **Raw Material Consumption**

Name of Raw Material	Name of the product	Consumption of Raw Material unit of output			
		FY 2022-23		FY 2023-24	
Coal	Electricity	Total Consumption(MT):	2230207	Total Consumption(MT)	2286189
		Specific Consumption per kw:	0.62Kg/Unit*	Specific Consumption per kw	0.62Kg/Unit*

*Sp. Coal consumption was almost same compared to the previous year due to efficient operation.

PART – C

Pollution discharged to Environment/Unit of output

(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutions discharged (mass/day)	Concentration of Pollutants in discharge (mass/volume)	Percentage of variation from prescribed Standards
Water Treated Effluent Discharge* **Unit** **Limit** pH 5.5. to 9.0 SS < 100 mg/l Oil & Grease < 10 mg/l BOD_5 < 30 mg/l COD < 250 mg/l	The Effluent Treatment facility for Stage I and II is common. Please refer Env Statement of Stage I.		
Air** SPM-Unit 3 SPM-Unit 4	1787.45 1928.04 kg/day	46.08 48.63 mg/Nm^3	-

* Report Enclosed as Annexure 1 of Stage_1

- As per Test Report of MoEF approved Laboratory dated 21.03.2024 of Unit 3 & dated 28.03.2024 of Unit 4 of Stage-2 respectively (Enclosed as **Annexure 2).

ROSA POWER SUPPLY COMPANY LIMITED SHAHJAHANPUR

PART – D

HAZARDOUS WASTES

(As specified under Hazardous wastes/management & Handling Rules, 1989)

Hazardous Wastes		Total Qty (KG)	
		FY 2022-23	FY 2023-24
(a)	From Process	10.07 KL(Spent Oil) 164.00 kg (Waste containing oil)	36.22 KL(Spent Oil) 4445.78 kg (Waste containing oil)
(b)	From Pollution Control facilities	2.01 KL (Apportioned in the ratio of generation)	7.24 KL (Apportioned in the ratio of generation)

The RPSCL has obtained Hazardous Waste Authorization from UPPCB for Collection & Storage of Hazardous waste.

- RPSCL has obtained renewed Hazardous Waste Authorization from UPPCB for Collection & Storage of Hazardous waste in 2023-24.
- Waste / Spent Oil is collected at centrally located point in isolated storage area meant for them in sealed Drums, which is further sent to authorized recycler for disposal as per norms of MoEF.

ROSA POWER SUPPLY COMPANY LIMITED ★ SHAHJAHANPUR

PART – E

SOLID WASTES

Total Quantity

Solid Wastes:

Solid Wastes:	Total Qty (Metric tonne or MT)	
	FY 2022-23	**FY 2023-24**
(i) From Process	163391 MT (Bottom Ash)	164813 MT (Bottom Ash)
(ii) From Pollution Control Facilities • Ash	653565 MT(Fly Ash)	659253 MT(Fly Ash)
c)	Ash in MT	Ash in MT
I. Quantity recycled or re-utilized within unit	I. 186	IV. 30035
II. Sold*	II. 500792	V. 0
III. Disposed	III. 252920	VI. 0

❖ **The ash is given to various agencies free of cost.*

PART – F

Indicate disposal practice adopted for Hazardous as well as solid waste

a) **Coal Ash:** As per MoEF guidelines, ash is being given to outside brick unit other than brick kiln, various cement industries for using ash as ingredients in their cement manufacturing units from our silo in closed trucks. Pond ash is lifted for Ash Pond dyke bund rising.

b) **Used Batteries:** Collected centrally at store in isolated place for disposal to authorized agencies as per MoEF guidelines.

c) **Hazardous waste:** Waste oil, Oil soaked cotton is collected in store for disposal to authorized agencies as per latest guidelines of MoEF.

d) **E-**Waste- E-Waste is collected in store for disposal to authorized agencies as per latest guideline of MoEF.

e) **Bio-**Medical Waste- Bio-medical waste is picked up by authorized agencies on daily basis from health centre.

ROSA POWER SUPPLY COMPANY LIMITED * SHAHJAHANPUR

PART – G

Impact of the pollution control measures taken on conservation of natural Resources and consequently on the cost of production.

Pollution Control facilities such as ETP/ STP help in conservation of water resources. The treated water from ETP & STP is used for Ash Handling & Horticulture. Also, the plant is operated on a CoC of more than 5 as against the designed CoC of more than 4 which is helping in further water conservation. All these measures effectively reduce the fresh water intake.

PART – H

Additional investment proposal for environmental protection abatement of pollution, prevention of pollution

1. Tree Plantation is being carried out in and around the plant premises. Total 16550 nos. of trees and shrubs have been planted in the FY 2023-24 (common for stage 1 & 2). Total 601752 trees has been planted so far in area of 283 Ha i.e approx 46% against 33% greenbelt of MoEF Guideline.
2. During Financial year 2023-24 total expenditure of Rs 1.5 Cr approximately done on horticulture & greenery development (common for stage 1 & 2).
3. Company has successfully passed the surveillance Audit for the Environment Management System Certification (ISO 14001:2015).
4. Continuous Air Quality Monitoring Stations (CAAQMS) have been installed in FY 2013-14, Continuous Effluent Monitoring System (CEMS) have been installed in FY 2014-15, and Connected data of Stack Emission, Effluent with CPCB Server in FY 2015-16, Online Coal Ash Analyser in FY 2017-18, Remote Calibration Facility in FY 2019-20 of CEMS, Modification of STP CHP in FY 2020-21, Modification of STP Switchyard (Plant site) in FY 2023-24 with an approximate investment of Rs 1.5 crore, 13 Lacs, 5 Lacs, 34 Lacs, 23.50 Lacs and 18 Lacs approximately respectively. One CAAQMS station with online weather station has been upgraded with E series costing approx 45 lacs.

PART – I

Any other particulars for improving the quality of environment.

(1) We are complying with all the directions and conditions of state and central pollution boards and regular Water & Air consents are in force.

(2) Regular monitoring of Noise level, AAQ, Waste and Stack Gases is being done. Waste water treatment and recycling is in practice.

(3) Almost 16550 Tree and shrubs Plantation has been done in the year 2023-24 for improving the quality of environment (commonly for Stage 1 & 2).

(4) Water conservation by Ash water recirculation.

(5) To further improve the treated water quality at plant STP, Dual Media Filter has been provided.

(6) Tree plantation, Prabhat Pheri and Quiz programmes organized on World Environment Day-2023 to increase environmental awareness among employees (Refer **Annexure_3 of Stage_1**)

(7) Training to employees from different departments has been given on Environmental Management System (ISO 14001:2015) and environmental aspect impact assessment

(8) Good Practices/ Environmental Improvement Plans were made to achieve continual Improvement of Environment.

Note: Environmental Monitoring reports AAQ, Noise, STP, and ETP are enclosed as (Refer Annexure 4, 5, 6 & Annexure 1 of Stage 1)

Following Environmental Improvement Plans were done during the FY 2023-24

(1) Waste Disposal - Different color coding of drums for Oily waste and General Waste, Segregation of E-waste, Electrical waste

(2) PCC of the oil storage shed at maintenance yard of all contractors' area

(3) Agreement for Biomedical waste disposal with approved agency and renewal of Bio Medical Waste Authorization

(4) Remote Calibration facility with CPCB server upgraded for online Stack Emission Data as per CPCB Guideline.

(5) Re-utilising the treated effluent from Coal Settling Pit for dust suppression in CHP Area

(6) Interconnecting sewage water of admin building and fire station with STP for optimum utilization of Sewage Treatment Plant. Also new STP of 20 KLD installed at CHP area to treat sewage water.

ROSA POWER SUPPLY COMPANY LIMITED SHAHJAHANPUR

Advanced Environmental Testing And Research Lab P. Ltd.

CIN: U73100MP2002PTC015352 GSTIN: 23AAECA9188L1ZS

Approved: by Occupational Health &Safety Management (ISO45001:2018)
Approved: by National Accreditation Board for Testing and Calibration Laboratories
Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

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TC-12780

Annexure - 02

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05.04.2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	01.03.2024 to 31.03.2024
Location	:	Stack Monitoring	**Monitoring Conducted by**	:	Sampling Staff
Source of Monitoring	:	Boiler Stack -3 (Bi-Flue) of Stage - 2	**Environmental Conditions during Sampling**	:	Sunny
Lab. Ref. No.	:		**Material of Construction**	:	MS
Dispatch No.	:		**Height From Ground Level**		65 M

	Boiler Stack - 3
Stack Area / Shape	05M/ Circular
Capacity	1025 TPH
Type of Fuel Used/Consumption per day	Coal/ 190tph
Thimble No.	March-03,March-07March-11 March-15
Stack Height (M)	275

TEST RESULT

S.No	Parameter	Unit	Monitoring Date				Protocol/Method Followed
			07.03.2024	14.03.2024	21.03.2024	28.03.2024	
1.	Temperature	^0C	127.00	129.00	128.00	132.00	
2.	Velocity	m/s	29.63	30.30	31.03	31.44	
3.	Sulphur dioxides (SO_2) without O_2 correction	(mg/Nm3)	1114.67	1120.00	1160.00	1176.00	IS:11255(Pt-2)2005 (Reaffirmed – 2009)
	Sulphur dioxides (SO_2) with6% O_2 correction		1016.10	913.54	1076.73	934.82	
4.	Oxides of Nitrogen NO-NO_2(NOx) without O_2 correction	(mg/Nm3)	316.40	323.28	357.67	337.03	IS:11255(Pt-2)2005 (Reaffirmed – 2012)
	Oxides of Nitrogen NO-NO_2(NOx) with6% O_2 correction		288.42	263.69	332.00	267.91	
5.	Particulate matter (PM)	(mg/Nm3)	48.17	47.60	46.08	46.86	IS:11255(Pt-I)1985 (Reaffirmed – 2003)

Authorized Signatory

Advanced Environmental Testing And Research Lab P. Ltd.

CIN: U73100MP2002PTC015352 GSTIN: 23AAECA9188L1Z8

Approved: by Occupational Health &Safety Management (ISO45001:2018)
Approved: by National Accreditation Board for Testing and Calibration Laboratories
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Annexure- 02

TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05.04.2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	01.03.2024 to 31.03.2024
Location	:	Stack Monitoring	**Monitoring Conducted by**	:	Sampling Staff
Source of Monitoring	:	Boiler Stack -3 (Bi-Flue) of Stage - 2	**Environmental Conditions during Sampling**	:	Sunny
Lab. Ref. No.	:		**Material of Construction**	:	MS
Dispatch No.	:		**Height From Ground Level**		65 M

	Boiler Stack - 3
Stack Area / Shape	05M/ Circular
Capacity	1025 TPH
Type of Fuel Used/Consumption per day	Coal/ 190tph
Thimble No.	March-03,March-07March-11 March-15
Stack Height (M)	275

TEST RESULT

S.No	Parameter	Unit	Monitoring Date				Protocol/Method Followed
			07.03.2024	**14.03.2024**	**21.03.2024**	**28.03.2024**	
1.	Temperature	^{0}C	127.00	129.00	128.00	132.00	
2.	Velocity	m/s	29.63	30.30	31.03	31.44	
3.	Sulphur dioxides (SO_2) without O_2 correction	(mg/Nm3)	1114.67	1120.00	1160.00	1176.00	IS:11255(Pt-2)2005 (Reaffirmed – 2009)
	Sulphur dioxides (SO_2) with6% O_2 correction		1016.10	913.54	1076.73	934.82	
4.	Oxides of Nitrogen NO-NO_2(NOx) without O_2 correction	(mg/Nm3)	316.40	323.28	357.67	337.03	IS:11255(Pt-2)2005 (Reaffirmed – 2012)
	Oxides of Nitrogen NO-NO_2(NOx) with6% O_2 correction		288.42	263.69	332.00	267.91	
5.	Particulate matter (PM)	(mg/Nm3)	48.17	47.60	46.08	46.86	IS:11255(Pt-I)1985 (Reaffirmed – 2003)

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TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	**Date of Issue**	:	05.04.2024
Address	:	Rosa, Shahjahanpur, UP, India	**Date of Sample Received**	:	01.03.2024 to 31.03.2024
Location	:	Stack Monitoring	**Monitoring Conducted by**	:	Sampling Staff
Source of Monitoring	:	Boiler Stack -4 (Bi-Flue) of Stage - 2	**Environmental Conditions during Sampling**	:	Sunny
Lab. Ref. No.	:		**Material of Construction**	:	MS
Dispatch No.	:		**Height From Ground Level**		65 M

	Boiler Stack - 4
Stack Area / Shape	05M/ Circular
Capacity	1025 TPH
Type of Fuel Used/Consumption per day	Coal/ 190tph
Thimble No.	March-04,March-08March-12 March-16
Stack Height (M)	275

TEST RESULT

S.No.	Parameter	Unit	Monitoring Date				Protocol/Method Followed
			07.03.2024	**14.03.2024**	**21.03.2024**	**28.03.2024**	
1.	Temperature	^{0}C	129.00	130.00	126.00	131.00	
2.	Velocity	m/s	30.89	30.54	29.06	31.95	
3.	Sulphur dioxides (SO_2) without O_2 correction	(mg/Nm3)	1109.33	1141.33	1157.33	1152.00	IS:11255(Pt-2)2005 (Reaffirmed – 2009)
	Sulphur dioxides (SO_2) with6% O_2 correction		1122.43	1053.21	1170.60	1019.17	
4.	Oxides of Nitrogen NO-NO_2(NOx) without O_2 correction	(mg/Nm3)	330.16	309.52	364.55	371.43	IS:11255(Pt-2)2005 (Reaffirmed – 2012)
	Oxides of Nitrogen NO-NO_2(NOx) with6% O_2 correction		334.05	285.62	368.73	328.60	
5.	Particulate matter (PM)	(mg/Nm3)	46.07	46.10	47.75	48.63	IS:11255(Pt-I)1985 (Reaffirmed – 2003)

Authorized Signatory