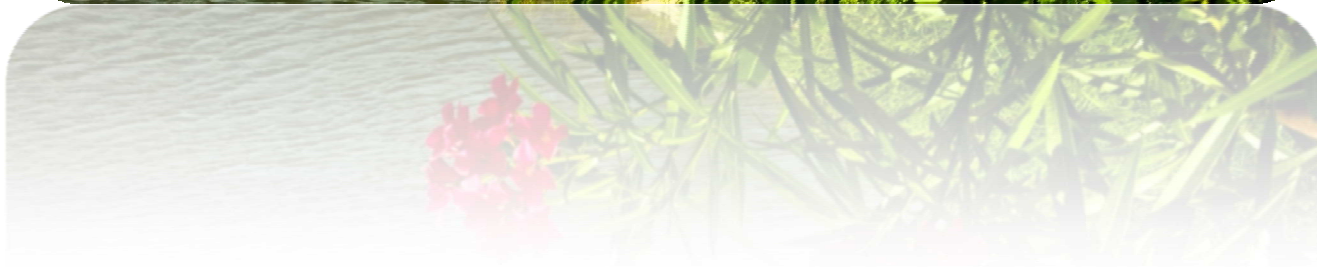


# Six Monthly Environmental Clearance Compliance Report

October 2023 to March 2024

Rosa Power Supply Co. Ltd.  
Stage-I



9/c

# 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/EC/05/2024/4

Date: 23.05.2024

To,  
The Director  
Ministry of Environment & Forests  
Kendriya Bhawan, 5<sup>th</sup> Floor  
Sector-H, Aliganj  
LUCKNOW (U.P.)

**Sub: Compliance Status – 2X300 MW Rosa Thermal Power Plant Stage-I**

Dear Sir,

This is with reference to the Environmental Clearance no J-13011/19/2005-IA (T) dated 14.03.2006 and its subsequent amendment issued to us.

As advised please find enclosed the six monthly compliance reports both in hard & soft copy for the period of October 2023 to March 2024.

Thanking You,

For Rosa Power Supply Co. Ltd.

  
(Authorized Signatory)

Cc: (I) Regional Officer UPPCB Bareilly  
(II) Regional Officer CPCB Lucknow  
(III) Member Secretary UPPCB Lucknow  
(IV) MoEF, New Delhi

- Encl:
- Six Monthly Compliance report
  - Annexure 1: STP & ETP Effluent Analysis Report
  - Annexure 2: Stack Monitoring Report
  - Annexure 3: Coal Ash Analysis Report
  - Annexure 4: Ground Water Analysis Report in Ash Pond Area
  - Annexure 5: Green Belt development progress Report
  - Annexure 6: First Aid Facilities Details
  - Annexure 7: Noise Monitoring Report
  - Annexure 8: AAQ (Ambient Air Quality) Monitoring Report
  - Annexure 9: Organization Structure





**Rosa Power Supply Co.Ltd, Vill. Chaudhera, Rosa, Shahjahanpur**  
**Capacity: 2x 300 MW – Stage I**  
**Compliance Status of Env Clearance Letter No. J-13011/19/2005-IA(T) dated 14.03.2006**  
**October 2023 to March 2024**

Sr. No.	Stipulated Clearance Condition	Compliance status
<b>3. Conditions and Safeguards</b>		
(i)	All the conditions stipulated by Uttar Pradesh Pollution Control Board vide their letter no. 5677/C-3/NOC/940/94 dated 2.5.1994 and F-51465 C-5/NOC-91/05/20 dated 14.10.2005 shall be strictly implemented.	<b>Complied.</b> Compliance Report submitted to UPPCB vide letter no RTPP/UPPCB/08-09/01 dated July 1, 2008
(ii)	The land to be acquired for the project shall not exceed 400 ha. Including land for the ash pond and green belt.	<b>Complied.</b> The total land available for stage – I & stage - II is 610 ha. The same was approved by MoEF-vide letter No. J-13011/73/2007-1A, II (T) dated 20 <sup>th</sup> July 2009.
(iii)	Closed circuit cooling system with a COC of not less than 4 shall be adopted.	<b>Being Complied.</b> Cooling water system designed for >4.0 Cycle of concentration. The present COC is 5.0 to 5.5.
(iv)	Rain water harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board and a copy of the same shall be submitted within three months to the Ministry.	<b>Complied.</b> The project site has shallow ground water level (5 to 8 meter) hence artificial recharge to ground water shall not be feasible. Hence, Central Ground Water Authority has negated the above requirement vide letter No. 32-5/CGWA/RWH/OTH/08-332 dated 29/01/2008.  As per new development and guideline of CGWA in November 2020: "Project Proponents has to apply for renewal of application through Nivesh Mitra Portal and hence after frequent amendment in law, we had again applied for renewal of NOC on dated 31.07.2021 and 02.08.2021 and received NOC on dated 13.10.2021 and valid till 26.04.2025. Compliances as per new NOC are in Place.
(v)	There shall be no construction within 500 m from the highway and within 500 m from HFL of the river.  The HFL shall be determined based on studies to be carried out by an expert agency within 3 months from the date of issue of this letter. Based on the same, a map shall be prepared showing the river, its highest flood line (HFL) and 500 m distance from HFL up to which no construction shall take place. These details shall be submitted to this Ministry within three months.	MoEF has substituted vide amendment in EC dated 21 <sup>st</sup> July 2014 as <i>"In case the state Govt. undertakes widening of the state Highway No. 25, the project proponent shall extend all co-operation and support and without any claim for compensation, demolish / dismantle any construction at its own cost and relinquish the portion of area falling in the power plant area for highway extension."</i>  Amendment is noted for compliance.  Further conditions no. (xxxiv to xliii) is added with amendment. Compliance of additional compliance put in subsequent continuation.  A letter regarding determination of HFL, (letter No. 617/Rosa Project dated 18/02/06) issued by the Executive Engineer, Irrigation Department, Govt. of U.P., along with a map showing that the boundary of flood plane has remained more than 500 mtr. Away from the location of the power plant during the last 50 years have already been submitted to MoEF.
(vi)	The effluents from the plant after proper treatment shall be used within the plant to the extent possible and discharge of effluents outside the plant boundary shall be kept to the minimum. The effluents to be discharged into Garaah river shall conform to the standards prescribed by the State Pollution Control Board.	<b>Being Complied.</b> The treated effluent is being used for ash disposal system and for horticulture and green belt development. If any treated water is excess, it is monitored for its quantity and quality and will be discharged into Garaah river.  The Analysis report of treated waste water from STP/ETP is enclosed as <b>Annexure-I</b>
(vii)	R&R plan shall be finalized within three months in accordance with the norms to be decided by the State Govt. which shall not be less than the norms prescribed in the National R&R policy. A copy of the same shall be furnished to this Ministry within six months.	<b>Completed.</b> Rehabilitation & Resettlement plan has been prepared in line with NRRP 2007 and submitted to District Administration as well as MoEF. This has been completed and no pending issues are existing as of now.
(viii)	A bi-flue stack of 275 m with exit velocity of not less than 20 m/sec and exit temperature of not less than 125 °C shall be provided with continuous on-line monitoring system. The data so collected shall be analyzed, records maintained and submitted regularly to the Regional office of this Ministry at Lucknow.	<b>Complied.</b> Continuous online monitoring system of CODEL, UK make has been installed for stack emission and connected online with CPCB server also for real time data transfer. Stack Emission Monitoring Report ( Iso-Kinetic ) is attached as <b>Annexure-II</b> .

**Rosa Power Supply Co.Ltd, Vill. Chaudhera, Rosa, Shahjahanpur**  
**Capacity: 2x 300 MW – Stage I**  
**Compliance Status of Env Clearance Letter No. J-13011/19/2005-IA(T) dated 14.03.2006**  
**October 2023 to March 2024**

(ix)	Electrostatic Precipitators (ESPs) with an efficiency of 99.9% efficiency shall be installed to limit particulate emission within 100 mg/Nm <sup>3</sup> . Automatic system for shutting down the power plant in the event of non-functioning of ESPs shall be installed.	<p>Noted and incorporated to design. A brief technical detail of ESP is as under.</p> <table border="1"> <thead> <tr> <th>S.No.</th><th>Parameters</th><th>Value</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Type of ESP</td><td>Double pass, 7 Electrical Fields</td></tr> <tr> <td>2.</td><td>Collection efficiency</td><td>99.94%</td></tr> <tr> <td>3.</td><td>Size of ESP</td><td>54.38x26.6x31.52</td></tr> <tr> <td>4.</td><td>Specific Collection Area</td><td>207.55 m<sup>2</sup>/m<sup>3</sup>/sec</td></tr> <tr> <td>5.</td><td>Flue Gas Velocity</td><td>0.87 m/sec</td></tr> <tr> <td>6.</td><td>Inlet Dust Concentration</td><td>54.4 g/Nm<sup>3</sup></td></tr> <tr> <td>7.</td><td>Particulate Emission</td><td>50 mg/Nm<sup>3</sup></td></tr> </tbody> </table>	S.No.	Parameters	Value	1.	Type of ESP	Double pass, 7 Electrical Fields	2.	Collection efficiency	99.94%	3.	Size of ESP	54.38x26.6x31.52	4.	Specific Collection Area	207.55 m <sup>2</sup> /m <sup>3</sup> /sec	5.	Flue Gas Velocity	0.87 m/sec	6.	Inlet Dust Concentration	54.4 g/Nm <sup>3</sup>	7.	Particulate Emission	50 mg/Nm <sup>3</sup>
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(x)	Ash and Sulphur content in the coal to be used as fuel in the project shall not exceed 40% and 0.28 % respectively.	<p>Complied.</p> <p>As per Environment (Protection) Amendment Rules, 2020, dated 21st May, 2020, There is now Relaxation on use of coal with ash content not exceeding 34% on quarterly basis Due to pandemic situation over world.</p> <p>Sulphur content is maintained 0.28% to 0.5% though some time it exceed 0.5% due to poor coal quality from coal mine end.</p> <p><b>Please refer Annexure III for Ash percentage details.</b></p>																								
(xi)	Fly ash should be collected in dry form and bottom ash only be disposed in the ash pond area in the form of high concentration slurry. 100% fly ash utilization shall be ensured from 5th year onward.	<p>The condition has been amended vide letter no. F. No. J-13012/19/2005-IA.II(T) dated 1st October, 2008 which states that;</p> <p>Fly ash shall be collected in dry form and storage facility of adequate capacity (silos) shall be provided. 100% utilization of fly ash shall be ensured from 4<sup>th</sup> year onwards as per MoEF Notification dated 3<sup>rd</sup> Nov 2009. Unutilized fly ash and bottom ash shall be disposed off in the ash pond through conventional slurry system."</p> <p>92% Fly Ash Utilization had been done in FY 2022-2023.</p>																								
(xii)	Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and data furnished to the Regional Office of this Ministry.	<p><b>Being Complied.</b></p> <p>A ground water quality report is attached herewith as <b>Annexure-IV.</b></p>																								
(xiii)	Green belt will be developed all around the power plant and around ash pond area. One third (1/3) of the total plant area shall be used for green belt development.	<p>Total land of Rosa Thermal Power Plant (4x300MW) is 610Ha. As per 33% Norms of MoEF, we had to develop green belt in 201 Ha.</p> <p>Rosa Power has already been developed green belt / plantation over an area of 283 Ha which is approx 46% including township. A total of <b>6, 01,752 trees / shrubs</b> are already planted till date. Local species are chosen for developing green belt.</p> <p>The status of Plantation is attached as <b>Annexure-V.</b></p>																								
(xiv)	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	<p>First aid, ambulance &amp; sanitation facility was provided by contractors at construction site during construction phase.</p> <p>The plant has First Aid, Ambulance and sanitation facilities at its operation also for the employees and workers. Facilities details at Occupational Health and Centre is enclosed as <b>Annexure-VI.</b></p>																								
(xv)	Leq of Noise level should be limited to 75 dBA and regular maintenance of equipment be undertaken. For people working in the high noise areas, personal protection devices should be provided.	<p>The Noise level monitoring is being carried out regularly at work places and the noise level is maintained below to the stipulated norms. The people working at high noise area are being provided with PPE and facilitated with job rotation. A copy of monitoring report attached herewith as <b>Annexure-VII.</b></p>																								
(xvi)	Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records maintained. Periodic six monthly reports should be submitted to the Regional Office of this Ministry.	<p>The Ambient air quality monitoring is being carried out regularly and a copy of monitoring report is attached as <b>Annexure-VIII.</b></p>																								
(xvii)	For controlling fugitive dust, regular sprinkling of water in coal storage area and other vulnerable areas of the plant shall be ensured.	<p>Following measures taken at CHP and other vulnerable area -</p> <ol style="list-style-type: none"> <li>1. Dry fog system at wagon tippler</li> <li>2. Dust extraction system at Crusher House</li> </ol>																								

**Rosa Power Supply Co.Ltd, Vill. Chaudhera, Rosa, Shahjahanpur**  
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**Compliance Status of Env Clearance Letter No. J-13011/19/2005-IA(T) dated 14.03.2006**  
**October 2023 to March 2024**

		<p>3. Water sprinkling system on conveyors and track hopper.</p> <p>4. Road wetting through water tankers.</p> <p>5. Speed limit of 20 kmph is maintained inside plant premises</p>																																																			
(xviii)	The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> ,	<p>Complied.</p> <p>Photocopies of the newspapers advertisements, "Dainik Jagran" and "Amar Ujala" dated 8th May, 2006, has already been submitted to your good office vide our letter dated 12/05/2006.</p>																																																			
(xix)	A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.	Rosa Power has a well equipped Environmental Cell comprising of environmental expert and staff which is headed by Head-EHS. The organization structure is enclosed as <b>Annexure-IX</b> .																																																			
(xx)	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards should be submitted to this Ministry/ Regional Office/CPCB/SPCB.	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards being submitted to Ministry/ Regional Office/CPCB/SPCB on or before 1 <sup>st</sup> June and 1 <sup>st</sup> December of each calendar year as per EIA Notification 2006.																																																			
(xxi)	Regional Office of the Ministry of Environment & Forests located at Lucknow will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan should be forwarded to the Regional Office for their use during monitoring.	EIA/ EMP report already submitted to the Regional Office																																																			
(xxii)	Separate funds should be allocated for implementation of environmental protection measures along with item-wise break-up. This cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	<p>Noted for Compliance.</p> <p><b>Approx Rs. 269.2 Cr. (Rs. 100Cr for Stage-1 and Rs. 169.2Cr for Stage-2)</b> were allocated for implementation of environmental protection measures during design and construction of the power station. Further for operation of the power station, the environmental protection cost has been now increased and approx <b>Rs.426Cr</b> had been spent. item wise breakup is as under:</p> <p><b>Capital Expenditure for Stage I &amp; II:</b></p> <table border="1"> <thead> <tr> <th>S.No</th><th>Description</th><th>Amount (Rs)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Dust Extraction System</td><td>46517</td></tr> <tr> <td>2</td><td>Continuous Effluent Monitoring System</td><td>1199999</td></tr> <tr> <td>3</td><td>Ash recovery water System</td><td>50489462</td></tr> <tr> <td>4</td><td>Ash Handling Plant</td><td>1682886259</td></tr> <tr> <td>5</td><td>Ash Disposal System</td><td>270068438</td></tr> <tr> <td>6</td><td>CAAQMS</td><td>17610984</td></tr> <tr> <td>7</td><td>Chemical &amp; Environmental Lab -UI</td><td>1554259</td></tr> <tr> <td>8</td><td>Chimney</td><td>477148378</td></tr> <tr> <td>9</td><td>Gas emission Monitoring Instrument</td><td>17388191</td></tr> <tr> <td>10</td><td>Sewerage Treatment Plant</td><td>241798095</td></tr> <tr> <td>11</td><td>Effluent Treatment Plant</td><td>155369441</td></tr> <tr> <td>12</td><td>Electrostatic Precipitators</td><td>889597026</td></tr> <tr> <td>13</td><td>Online Coal Ash Analyser</td><td>3200000</td></tr> <tr> <td>14</td><td>Instrument for Online Remote Calibration of CEMS</td><td>1800000</td></tr> <tr> <td>15</td><td>Up gradation of CAAQMS Station</td><td>4500000</td></tr> <tr> <td></td><td><b>Total (Cr)</b></td><td><b>426.02</b></td></tr> </tbody> </table> <p><b>Operational Expenditure:</b></p> <p>1. Environment Monitoring and STP Operation <b>0.49 Cr</b></p> <p>2. Horticulture <b>1.50 Cr</b></p> <p>3. ETP Operation <b>0.02 Cr</b></p> <p>4. ESP Maintenance <b>0.75 Cr</b></p>	S.No	Description	Amount (Rs)	1	Dust Extraction System	46517	2	Continuous Effluent Monitoring System	1199999	3	Ash recovery water System	50489462	4	Ash Handling Plant	1682886259	5	Ash Disposal System	270068438	6	CAAQMS	17610984	7	Chemical & Environmental Lab -UI	1554259	8	Chimney	477148378	9	Gas emission Monitoring Instrument	17388191	10	Sewerage Treatment Plant	241798095	11	Effluent Treatment Plant	155369441	12	Electrostatic Precipitators	889597026	13	Online Coal Ash Analyser	3200000	14	Instrument for Online Remote Calibration of CEMS	1800000	15	Up gradation of CAAQMS Station	4500000		<b>Total (Cr)</b>	<b>426.02</b>
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(xxiii)	Full cooperation should be extended to the Scientists/Officers	Noted & adhered.																																																			

**Rosa Power Supply Co.Ltd, Vill. Chaudhera, Rosa, Shahjahanpur**  
**Capacity: 2x 300 MW – Stage I**  
**Compliance Status of Env Clearance Letter No. J-13011/19/2005-IA(T) dated 14.03.2006**  
**October 2023 to March 2024**

	from the Ministry/Regional Office of the Ministry at Lucknow / the CPCB / the SPCB who would be monitoring the compliance of environmental status.	
<b>General Conditions</b>		
4.	The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.	<b>Noted.</b>
5.	The environmental clearance accorded shall be valid for a period of 5 years for starting construction/operation of the power plant. In case, the project authorities fail to do so within this stipulated period, the environmental clearance shall stand lapsed automatically.	The Stage I of the plant is already in operation phase since 30/6/2010. Commercial Operation Date (COD) of Unit#1 is 12.03.2010 and COD of Unit#2 is 30.06.2010.
6.	In case of any deviation or alteration in the proposed project from that submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.	<b>Noted</b>
7.	The above stipulations shall be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991, the Environment Impact assessment Notification, 1994 and the amendments made therein from time to time.	<b>Noted &amp; adhered.</b>
Environment (Protection) Amendment Rules, 2014 – Notification No. G.S.R. O2 (EI dated 24 Jan.2014, regarding supply and use of coal with ash content not exceeding 34% to coal based Thermal Power Plants - compliance reg.		
i	The Thermal Power Plants attracting the said Notification shall submit its Compliance to the Ministry Regional Office and SPCB concerned along with the compliance reports of the environmental safeguards stipulated in the ECs and Consents.	Coal used by RPSCL has ash content between 34% to 40%. Report is being sent to regulatory bodies on quarterly basis as per guideline. <b>Quarterly Report enclosed as Annex_X.</b>
ii	Environment (Protection) Amendment Rules, 2020, dated 21st May, 2020	As per Environment (Protection) Amendment Rules, 2020, dated 21st May, 2020, There is now Relaxation on use of coal with ash content not exceeding 34% on quarterly basis due to pandemic situation over world. Copy of Test Report of Coal sample enclosed as Annexure-III
<b>S.O. 3305(E).</b> — In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:— 1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2015 dated 7th December, 2015.		
i	All existing CT-based plants reduce specific water consumption upto maximum of 3.5m <sup>3</sup> /MWh within a period of two years from the date of Publication of this notification.	<b>Complied.</b> Specific water consumption is below 3.5m <sup>3</sup> /MWh
ii	TPPs ( units) installed after 1st January,2003, upto 31st December, 2016*  a) Particulate Matter: 50 mg/Nm <sup>3</sup> b) Sulphur Dioxide (SO <sub>2</sub> ) : 600 mg/Nm <sup>3</sup> (Units Smaller than 500MW capacity units) c) Oxides of Nitrogen ( NO <sub>x</sub> ): 300 mg/Nm <sup>3</sup> d) Mercury ( Hg : ) 0.03 mg/Nm <sup>3</sup>	<b>Noted.</b>  <b>a)</b> Emission Norms for Particulate Matter is 100 mg/Nm <sup>3</sup> as per Environmental Clearance Condition and there was no norms for SO <sub>x</sub> , NO <sub>x</sub> and Hg. MoEF&CC published its Notification in <b>2015</b> for New Emission norms for Particulate Matter, SO <sub>x</sub> , NO <sub>x</sub> and for Hg and the Compliance completion date was before <b>Jan-18</b> . Till Now CPCB/CEA has given relaxation to this Compliance condition to comply this Norms upto <b>Dec-2026</b> for RPSCL. <b>b)</b> RPSCL has made DPR for implementation of New Emission Norms as per guidelines of CEA and Submitted to CEA authority for cost approval. <b>c)</b> Vendor finalization for ESP up gradation, wet FGD installation and NOX control is completed, LOI issued and award of work is in progress. <b>d)</b> Hg emission is well below stipulated norms. Hence, there is no requirement for Hg control technology up gradation. Achieving the prescribed Norms. Refer <b>Annex-2</b> , Stack Emission Monitoring Report.
CPCB_ Notice for Remote Calibration vide File No. 12011/33/2018/IT-RCAL, Dated – 25 <sup>th</sup> June,2018:		
	Directions for installation of Online Continuous Emission	Updating of System for Remote Calibration of CEMS System as

**Rosa Power Supply Co.Ltd, Vill. Chaudhera, Rosa, Shahjahanpur**  
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1	<p>Monitoring System (OCEMS) and submission of its data to CPCB online were issued to 17 categories of highly polluting industries and grossly polluting industries by CPCB in the year 2015.</p> <p>Further</p> <p>i) Time extension, to install remote calibration facility for OCEMS performance check by CPCB and SPCBs/PCCs, is given till 20.09.2018. All industries shall also submit remote calibration facility details such as make, model and device ID in the section 12 "Instrument Details" of Form E2 of Compliance Reporting Protocol.</p>	<p>per Guideline of CPCB Completed. Online Data are transferred to CPCB server through M/s Forbes Marshall.</p>
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# Advanced Environmental Testing And Research Lab P. Ltd.



CIN: U73100MP2002PTC015352

GSTIN: 23AAECA9188L1Z8

Approved: by Occupational Health &amp; Safety Management (ISO45001:2018)

Approved: by National Accreditation Board for Testing and Calibration Laboratories

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&amp;CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India

☎0751-3566867, 2232177

Email: aetgwalior@gmail.com, aetrl2016@gmail.com, aetrlcenter@gmail.com

Web: www.aetrl.com



## 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°C)(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/100 ml	IS 15185-2016 RA 2019	Absent	-	-
7	Feecal Coliform	MPN/100 ml	IS 15185-2016 RA 2019	Absent	1000	-

(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

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India

☎0751-3566867, 2232177

Email: aelgwalior@gmail.com aetri2016@gmail.com, aetricenter@gmail.com

Web: www.aetri.com



TC-12750

## 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°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/100 ml	IS 15185-2016 RA 2019	28	-	-
7.	Feecal Coliform	MPN/100 ml	IS 15185-2016 RA 2019	Absent	1000	-

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TC-12750

## 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°C)(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/100 ml	IS 15185-2016 RA 2019	18	-	-
7.	Feacal Coliform	MPN/100 ml	IS 15185-2016 RA 2019	Absent	1000	-

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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	:	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°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/100 ml	IS 15185-2016 RA 2019	24	-	-
7.	Feacal Coliform	MPN/100 ml	IS 15185-2016 RA 2019	Absent	1000	-

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## TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	Date of Issue	:	6/11/2023
Address	:	Rosa, Shahjahanpur, UP, India	Date of Sample Received	:	01/10/2023 to 31/10/2023
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.	:	AETRL/011123ST0001	Material of Construction	:	MS
Dispatch No.	:	0010	Height From Ground Level	:	65 M

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

## TEST RESULT

Sr.No.	Parameter	Unit	Monitoring Date	Protocol/Method Followed
			25.10.2023	
1.	Temperature	°C	129.00	
2.	Velocity	m/s	29.58	
3.	Sulphur dioxides (SO <sub>2</sub> ) without O <sub>2</sub> correction	(mg/Nm <sup>3</sup> )	1152.00	IS:11255(Pt-2)2005 (Reaffirmed – 2009)
	Sulphur dioxides (SO <sub>2</sub> ) with 6% O <sub>2</sub> correction		1063.38	
4.	Oxides of Nitrogen NO-NO <sub>2</sub> (NO <sub>x</sub> ) without O <sub>2</sub> correction	(mg/Nm <sup>3</sup> )	274.84	IS:11255(Pt-2)2005 (Reaffirmed – 2012)
	Oxides of Nitrogen NO-NO <sub>2</sub> (NO <sub>x</sub> ) with 6% O <sub>2</sub> correction		253.70	
5.	Particulate matter (PM)	(mg/Nm <sup>3</sup> )	45.72	IS:11255(Pt-I)1985 (Reaffirmed – 2003)
6.	Mercury (Hg)	(mg/Nm <sup>3</sup> )	0.0056	CPCB Guidelines on Methodologies for Source Emission Monitoring] Page No. 49-53 and manufacture instruction for AAS

(Authorized Signatory)





## TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	Date of Issue	:	6/11/2023
Address	:	Rosa, Shahjahanpur, UP, India	Date of Sample Received	:	01/10/2023 to 31/10/2023
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.	:	AETRL/011123ST0002	Material of Construction	:	MS
Dispatch No.	:	0010	Height From Ground Level	:	65 M

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

## TEST RESULT

S.No.	Parameter	Unit	Monitoring Date				Protocol/Method Followed
			03.10.2023	10.10.2023	17.10.2023	23.10.2023	
1.	Temperature	°C	127.00	132.00	130.00	131.00	
2.	Velocity	m/s	29.79	33.12	32.79	31.96	
3.	Sulphur dioxides (SO <sub>2</sub> ) without O <sub>2</sub> correction	(mg/Nm <sup>3</sup> )	1168.00	1141.33	1114.67	1146.67	IS:11255(Pt-2)2005 (Reaffirmed - 2009)
	Sulphur dioxides (SO <sub>2</sub> ) with 6% O <sub>2</sub> correction		1047.22	926.41	1080.10	951.85	
4.	Oxides of Nitrogen NO-NO <sub>2</sub> (NO <sub>x</sub> ) without O <sub>2</sub> correction	(mg/Nm <sup>3</sup> )	353.96	368.41	382.86	375.63	IS:11255(Pt-2)2005 (Reaffirmed - 2012)
	Oxides of Nitrogen NO-NO <sub>2</sub> (NO <sub>x</sub> ) with 6% O <sub>2</sub> correction		317.36	299.03	370.99	311.82	
5.	Particulate matter (PM)	(mg/Nm <sup>3</sup> )	44.56	43.67	47.07	45.24	IS:11255(Pt-I)1985 (Reaffirmed - 2003)
6.	Mercury (Hg)	(mg/Nm <sup>3</sup> )			0.0048		CPCB Guidelines on Methodologies for Source Emission Monitoring] Page No. 49-53 and manufacture instruction for AAS

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## TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	Date of Issue	:	03.02.2024
Address	:	Rosa, Shahjahanpur, UP, India	Date of Sample Received	:	29.01.2024
Nature of Sample	:	Coal Sample	Qty of Sample	:	1.0 kg
Lab. Ref. No.	:	AETRL/290124G0001	Sample Bottle	:	Plastic packing
Dispatch No.	:	0013	Sample Description	:	Coal
Sample Collected by	:	Sampling Staff	D/o Sample Taken	:	29.01.2024
D/o Sample Analysis	:	30.01.2024	D/o of Completion Analysis	:	03.02.2024

## TEST RESULT

S. No.	PARAMETER	UNIT	PROTOCOL	Limit of detection	RESULTS			
					I	II	III	IV
1	Ash Content	(%)	IS:1350(Part-I)-1984, RA-2019	5-55	35.20	36.35	35.90	36.19
2	Sulphur Content	(%)	IS:1350(Part-3)-1984, RA-2019	-	0.48	0.50	0.46	0.53

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## TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	Date of Issue	:	06/11/2023
Address	:	Rosa, Shahjahanpur, UP, India	Date of Sample Received	:	30/10/2023
Nature of Sample	:	Drinking Water	Qty of Sample	:	2.0 Lt
Lab. Ref. No.	:	AETRL/011123W0001	Sample Bottle	:	Plastic packing
Dispatch No.	:	0010	Sample Description	:	Hand pump water sample near Ash Pond Hardoi road side.
Samle Collected by	:	Sampling Staff	D/o Sample Taken	:	28/10/2023
D/o Sample Analysis	:	30/10/2023	D/o of Completion Analysis	:	04/11/2023

S. No.	PARAMETER	UNIT	PROTOCOL	LIMIT OF DETECTION	RESULTS	INDIAN STANDARDS as per IS 10500:2012(Reaff:2018)	
						Desirable	Permissible
1.	Colour	Hazen	APHA, 23 <sup>rd</sup> Ed. 2017, 2120 B	5-100	<5.0	5.00	15.0
2.	Taste	....	APHA, 23 <sup>rd</sup> Ed. 2017, 2160 A+B	Agreeable	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	APHA, 23 <sup>rd</sup> Ed. 2017, 2130-A+B	1 - 100	1.05	1.0	5.0
4.	pH	...	APHA, 23 <sup>rd</sup> Ed. 2017, 4500H+ A+B	2.0 - 12	7.74	6.5-8.5	No Relax.
5.	Total Dissolved Solids as TDS	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2540-C	5 - 5000	391.0	500	2000
6.	Alkalinity	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2320 A+B	5-1500	148.0	200	600
7.	Total Hardness as CaCO <sub>3</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2340 A+C	5-1500	184.0	200.0	600.0
8.	Calcium as Ca	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Ca A+B	5 - 1000	48.9	75.0	200.0
9.	Magnesium as Mg	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Mg A+B	5-1000	18.58	30.0	100.0
10.	Copper as Cu	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.05-5	BDL	0.05	1.5
11.	Iron as Fe	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Fe B	0.02-50	0.19	0.3	No Relax.
12.	Manganese as Mn	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.1-5	BDL	0.10	0.30
13.	Chloride as Cl	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500 Cl A+B	5-1000	25.0	250.0	1000.0
14.	Sulfate as SO <sub>4</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> <sup>2-</sup> -E	1.0 - 250	28.2	200.0	400.0
15.	Nitrate Nitrogen as NO <sub>3</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> <sup>-</sup> -B	5.0 - 100	9.8	45.0	No Relax.
16.	Fluorides as F	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-C	0.05-10	0.28	1.0	1.5
17.	Mercury as Hg	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.001-1	BDL	0.001	No Relax.
18.	Cadmium as Cd	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.002-2	BDL	0.003	No Relax.
19.	Lead as Pb	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.01-2	BDL	0.01	No Relax.
20.	Zinc as Zn	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.02-50	0.15	5.0	15

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21.	Anionic Detergents(As MBAS)	mg/l	APHA, 23rd Ed. 2017,5540 A+C	0.01-5	BDL	0.2	1.0
22.	Total Chromium as Cr	mg/l	APHA, 23rd Ed. 2017, 3111 A+B	0.05-20	BDL	0.05	No Relax.
23.	Mineral Oil 6	mg/l	IS 3025 (Part 39) Class -6	0.01-10	BDL	0.5	No Relax.
24.	Free Residual Chlorine	mg/l	APHA, 23rd Ed. 2017, 4500-Cl B	0.5-10	BDL	0.20	1.0
25.	Selenium as Se	mg/l	APHA, 23rd Ed. 2017, 3112 A+B	0.01-10	BDL	0.01	No Relax.
26.	Cyanide as CN	mg/l	APHA, 23rd Ed. 2017, 3112 A+B	0.1-10	BDL	0.05	No Relax.
27.	Aluminum as Al	mg/l	APHA, 23rd Ed.2017, 3500AlA+B	0.2-100	BDL	0.03	No Relax.
28.	Barium as Ba	mg/l	APHA, 23rd Ed. 2017, 3112 A+B	0.2-20	BDL	0.7	No Relax.
29.	Molybdenum as Mo	mg/l	APHA, 23rd Ed. 2017, 3112 A+B	0.05-10	BDL	0.07	No Relax.
30.	Nickel as Ni	mg/l	APHA, 23rd Ed. 2017, 3112 A+B	0.02-20	BDL	0.02	No Relax.
31.	Silver as Ag	mg/l	APHA, 23rd Ed. 2017, 3112 A+B	0.05-10	BDL	0.1	No Relax.
32.	Sulphide as H <sub>2</sub> S	mg/l	APHA, 23rd Ed.2017, 4500 S <sub>2</sub> - F	0.1-10	BDL	0.05	No Relax.
33.	Chloramines as Cl <sub>2</sub>	mg/l	APHA, 23rd Ed. 2017, 3112 A+B	1.0-20	ND	4.0	No Relax.
34.	Bromoform	mg/l	APHA, 23rd Ed. 2017, 3112 A+B	0.1-2	ND	0.1	No Relax.
35.	Dibromoform Methane	mg/l	APHA, 23rd Ed. 2017, 3112 A+B	0.1-2	ND	0.1	No Relax.
36.	BromoDichloro Methane	mg/l	APHA, 23rd Ed. 2017, 3112 A+B	0.05-2	ND	0.06	No Relax.
37.	Chloroform	mg/l	APHA, 23rd Ed. 2017, 3112 A+B	0.1-2	ND	0.2	No Relax.
38.	Polynuclear aromatic Hydrogen as PAH	(ug/l)	APHA, 23rd Ed. 2017, 3112 A+B	0.0001-0.5	ND	0.0001	No Relax.
39.	Pesticide	(ug/l)	APHA, 23rd Ed. 2017, 3112 A+B	1-20	ND	-	-
40.	Total coliform	(MPN/100 ml)	APHA, 23rd Ed. 2017, 9221, B+C	1.8	Absent	Absent	Absent
41.	E.coli	(MPN/100ml)	APHA, 23rd Ed. 2017, 9221, B+E	1.8	Absent	Absent	Absent

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## TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 06/11/2023
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: 30/10/2023
Nature of Sample	: Drinking Water	Qty of Sample	: 2.0 Lt
Lab. Ref. No.	: AETRL/011123W0002	Sample Bottle	: Plastic packing
Dispatch No.	: 0010	Sample Description	: Hand pump water sample near Ash Pond.
Samle Collected by	: Sampling Staff	D/o Sample Taken	: 28/10/2023
D/o Sample Analysis	: 30/10/2023	D/o of Completion Analysis	: 04/11/2023

S. No.	PARAMETER	UNIT	PROTOCOL	LIMIT OF DETECTION	RESULTS	INDIAN STANDARDS as per IS 10500:2012 (Reaff:2018)	
						Desirable	Permissible
1.	Colour	Hazen	APHA, 23 <sup>rd</sup> Ed. 2017, 2120 B	5-100	<5.0	5.00	15.0
2.	Taste	.....	APHA, 23 <sup>rd</sup> Ed. 2017, 2160 A+B	Qualitative	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	APHA, 23 <sup>rd</sup> Ed. 2017, 2130-A+B	1 - 100	1.56	1.0	5.0
4.	pH	...	APHA, 23 <sup>rd</sup> Ed. 2017, 4500H+ A+B	2.0 -12	7.84	6.5-8.5	No Relax.
5.	Total Dissolved Solids as TDS	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2540-C	5 - 5000	438.0	500	2000
6.	Alkalinity	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2320 A+ B	5-1500	172.0	200	600
7.	Total Hardness as CaCO <sub>3</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2340 A+C	5-1500	179.0	200.0	600.0
8.	Calcium as Ca	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Ca A+B	5 - 1000	39.78	75.0	200.0
9.	Magnesium as Mg	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Mg A+B	5-1000	23.56	30.0	100.0
10.	Copper as Cu	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.05-5	BDL	0.05	1.5
11.	Iron as Fe	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Fe B	0.02-50	0.24	0.3	No Relax.
12.	Manganese as Mn	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.1-5	BDL	0.10	0.30
13.	Chloride as Cl	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500 Cl A+B	5-1000	29.0	250.0	1000.0
14.	Sulfate as SO <sub>4</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> <sup>2-</sup> E	1.0 -250	39.4	200.0	400.0
15.	Nitrate Nitrogen as NO <sub>3</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> <sup>-</sup> B	5.0 - 100	7.6	45.0	No Relax.
16.	Fluorides as F	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-C	0.05-10	0.39	1.0	1.5
17.	Mercury as Hg	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.001-1	BDL	0.001	No Relax.
18.	Cadmium as Cd	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.002-2	BDL	0.003	No Relax.
19.	Lead as Pb	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.01-2	BDL	0.01	No Relax.
20.	Zinc as Zn	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.02-50	0.19	5.0	15
21.	Anionic Detergents(As MBAS)	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 5540 A+C	0.01-5	BDL	0.2	1.0
22.	Total Chromium as Cr	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.05-20	BDL	0.05	No Relax.
23.	Mineral Oil 6	mg/l	IS 3025 (Part 39) Class -6	0.01-10	BDL	0.5	No Relax.
24.	Free Residual Chlorine	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-Cl B	0.5-10	BDL	0.20	1.0
25.	Selenium as Se	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.01-10	BDL	0.01	No Relax.

(Authorized Signatory)

# Advanced Environmental Testing And Research Lab P. Ltd.

CIN: U73100MP2002PTC015352

GSTIN: 23AAECA9188L1Z8

Approved: by Occupational Health & Safety Management (ISO45001:2018)



Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India

☎0751-3566867, 2232177

Email: aetgwalior@gmail.com, aetrl2016@gmail.com, aetricenter@gmail.com

Web: www.aetrl.com

26.	Cyanide as CN	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-10	BDL	0.05	No Relax.
27.	Aluminum as Al	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500A1A+B	0.2-100	BDL	0.03	No Relax.
28.	Barium as Ba	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.2-20	BDL	0.7	No Relax.
29.	Molybdenum as Mo	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.05-10	BDL	0.07	No Relax.
30.	Nickel as Ni	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.02-20	BDL	0.02	No Relax.
31.	Silver as Ag	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.05-10	BDL	0.1	No Relax.
32.	Sulphide as H <sub>2</sub> S	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500 S <sub>2</sub> -F	0.1-10	BDL	0.05	No Relax.
33.	Chloramines as Cl <sub>2</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	1.0-20	ND	4.0	No Relax.
34.	Bromoform	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-2	ND	0.1	No Relax.
35.	Dibromoform Methane	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-2	ND	0.1	No Relax.
36.	BromoDichloro Methane	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.05-2	ND	0.06	No Relax.
37.	Chloroform	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-2	ND	0.2	No Relax.
38.	Polynuclear aromatic Hydrogen as PAH	(ug/l)	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.0001-0.5	ND	0.0001	No Relax.
39.	Pesticide	(ug/l)	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	1-20	ND	-	-
40.	Total coliform	(MPN/100 ml)	APHA, 23 <sup>rd</sup> Ed. 2017, 9221, B+C	1.8	Absent	Absent	Absent
41.	E.coli	(MPN/100 ml)	APHA, 23 <sup>rd</sup> Ed. 2017, 9221, B+E	1.8	Absent	Absent	Absent

(Authorized Signatory)

# Advanced Environmental Testing And Research Lab P. Ltd.

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Gwalior-474 011, M.P., India

☎0751-3566867, 2232177

Email: aetgwalior@gmail.com, aetrl2016@gmail.com, aetricenter@gmail.com

Web: www.aetrl.com

## TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	Date of Issue	:	06/11/2023
Address	:	Rosa, Shahjahanpur, UP, India	Date of Sample Received	:	30/10/2023
Nature of Sample	:	Drinking Water	Qty of Sample	:	2.0 Lt
Lab. Ref. No.	:	AETRL/011123W0003	Sample Bottle	:	Plastic packing
Dispatch No.	:	0010	Sample Description	:	Hand pump water sample Ash Pond area Near Majar
Samle Collected by	:	Sampling Staff	D/o Sample Taken	:	28/10/2023
D/o Sample Analysis	:	30/10/2023	D/o of Completion Analysis	:	04/11/2023

S. No.	PARAMETER	UNIT	PROTOCOL	LIMIT OF DETECTION	RESULTS	INDIAN STANDARDS as per IS 10500:2012(Reaff:2018)	
						Desirable	Permissible
1.	Colour	Hazen	APHA, 23 <sup>rd</sup> Ed. 2017, 2120 B	5-100	<5.0	5.00	15.0
2.	Taste	.....	APHA, 23 <sup>rd</sup> Ed. 2017, 2160 A+B	Qualitative	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	APHA, 23 <sup>rd</sup> Ed. 2017, 2130-A+B	1 - 100	1.74	1.0	5.0
4.	pH	...	APHA, 23 <sup>rd</sup> Ed. 2017, 4500H+ A+B	2.0 -12	7.86	6.5-8.5	No Relax.
5.	Total Dissolved Solids as TDS	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2540-C	5 - 5000	460.0	500	2000
6.	Alkalinity	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2320 A+ B	5-1500	180.0	200	600
7.	Total Hardness as CaCO <sub>3</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2340 A+C	5-1500	191.0	200.0	600.0
8.	Calcium as Ca	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Ca A+B	5 - 1000	49.5	75.0	200.0
9.	Magnesium as Mg	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Mg A+B	5-1000	25.67	30.0	100.0
10.	Copper as Cu	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.05-5	BDL	0.05	1.5
11.	Iron as Fe	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Fe B	0.02-50	0.19	0.3	No Relax.
12.	Manganese as Mn	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.1-5	BDL	0.10	0.30
13.	Chloride as Cl	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500 Cl A+B	5-1000	54.0	250.0	1000.0
14.	Sulfate as SO <sub>4</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> <sup>2-</sup> E	1.0 -250	45.54	200.0	400.0
15.	Nitrate Nitrogen as NO <sub>3</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> <sup>-</sup> B	5.0 - 100	9.87	45.0	No Relax.
16.	Fluorides as F	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-C	0.05-10	0.29	1.0	1.5
17.	Mercury as Hg	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.001-1	BDL	0.001	No Relax.

(Authorized Signatory)

# Advanced Environmental Testing And Research Lab P. Ltd.

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GSTIN: 23AAECA9188L1Z8

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18.	Cadmium as Cd	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.002-2	BDL	0.003	No Relax
19.	Lead as Pb	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.01-2	BDL	0.01	No Relax.
20.	Zinc as Zn	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.02-50	0.38	5.0	15
21.	Anionic Detergents(As MBAS)	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 5540 A+C	0.01-5	BDL	0.2	1.0
22.	Total Chromium as Cr	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.05-20	BDL	0.05	No Relax.
23.	Mineral Oil 6	mg/l	IS 3025 (Part 39) Class -6	0.01-10	BDL	0.5	No Relax.
24.	Free Residual Chlorine	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-Cl B	0.5-10	BDL	0.20	1.0
25.	Selenium as Se	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.01-10	BDL	0.01	No Relax.
26.	Cyanide as CN	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-10	BDL	0.05	No Relax.
27.	Aluminum as Al	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500AlA+B	0.2-100	BDL	0.03	No Relax.
28.	Barium as Ba	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.2-20	BDL	0.7	No Relax.
29.	Molybdenum as Mo	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.05-10	BDL	0.07	No Relax.
30.	Nickel as Ni	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.02-20	BDL	0.02	No Relax.
31.	Silver as Ag	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.05-10	BDL	0.1	No Relax.
32.	Sulphide as H <sub>2</sub> S	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500 S <sub>2</sub> - F	0.1-10	BDL	0.05	No Relax.
33.	Chloramines as Cl <sub>2</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	1.0-20	ND	4.0	No Relax.
34.	Bromoform	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-2	ND	0.1	No Relax.
35.	Dibromoform Methane	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-2	ND	0.1	No Relax.
36.	BromoDichloro Methane	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.05-2	ND	0.06	No Relax.
37.	Chloroform	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-2	ND	0.2	No Relax.
38.	Polynuclear aromatic Hydrogen as PAH	(ug/l)	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.0001-0.5	ND	0.0001	No Relax.
39.	Pesticide	(ug/l)	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	1-20	ND	-	-
40.	Total coliform	(MPN/100 ml)	APHA, 23 <sup>rd</sup> Ed. 2017, 9221, B+C	1.8	Absent	Absent	Absent
41.	E.coli	(MPN/100 ml)	APHA, 23 <sup>rd</sup> Ed. 2017, 9221, B+E	1.8	Absent	Absent	Absent

(Authorized Signatory)



# Advanced Environmental Testing And Research Lab P. Ltd.

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Approved: by Occupational Health & Safety Management (ISO45001:2018)



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Gwalior-474 011, M.P., India

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Email: aetgwalior@gmail.com, aetrl2016@gmail.com, aetricenter@gmail.com

Web: www.aetrl.com

## TEST REPORT

Company Name	:	Rosa Power Supply Co. Ltd.	Date of Issue	:	06/11/2023
Address	:	Rosa, Shahjahanpur, UP, India	Date of Sample Received	:	30/10/2023
Nature of Sample	:	Drinking Water	Qty of Sample	:	2.0 Lt
Lab. Ref. No.	:	AETRL/011123W0004	Sample Bottle	:	Plastic packing
Dispatch No.	:	0010	Sample Description	:	Hand pump water sample near Ash Pond Behti Village
Samle Collected by	:	Sampling Staff	D/o Sample Taken	:	28/10/2023
D/o Sample Analysis	:	30/10/2023	D/o of Completion Analysis	:	04/11/2023

S. No.	PARAMETER	UNIT	PROTOCOL	LIMIT OF DETECTION	RESULTS	INDIAN STANDARDS as per IS 10500:2012(Reaff:2018)	
						Desirable	Permissible
1.	Colour	Hazen	APHA, 23 <sup>rd</sup> Ed. 2017, 2120 B	5-100	<5.0	5.00	15.0
2.	Taste	....	APHA, 23 <sup>rd</sup> Ed. 2017, 2160 A+B	Qualitative	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	APHA, 23 <sup>rd</sup> Ed. 2017, 2130-A+B	1 - 100	1.57	1.0	5.0
4.	pH	...	APHA, 23 <sup>rd</sup> Ed. 2017, 4500H+ A+B	2.0 - 12	7.51	6.5-8.5	No Relax.
5.	Total Dissolved Solids as TDS	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2540-C	5 - 5000	459.0	500	2000
6.	Alkalinity	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2320 A+ B	5-1500	189.0	200	600
7.	Total Hardness as CaCO <sub>3</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 2340 A+C	5-1500	180.0	200.0	600.0
8.	Calcium as Ca	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Ca A+B	5 - 1000	48.89	75.0	200.0
9.	Magnesium as Mg	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Mg A+B	5-1000	38.46	30.0	100.0
10.	Copper as Cu	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.05-5	BDL	0.05	1.5
11.	Iron as Fe	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500 Fe B	0.02-50	0.19	0.3	No Relax.
12.	Manganese as Mn	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.1-5	BDL	0.10	0.30
13.	Chloride as Cl	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500 Cl A+B	5-1000	60.0	250.0	1000.0
14.	Sulfate as SO <sub>4</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> <sup>2-</sup> E	1.0 - 250	69.9	200.0	400.0
15.	Nitrate Nitrogen as NO <sub>3</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> <sup>-</sup> B	5.0 - 100	7.97	45.0	No Relax.
16.	Fluorides as F	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-C	0.05-10	0.49	1.0	1.5
17.	Mercury as Hg	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.001-1	BDL	0.001	No Relax.
18.	Cadmium as Cd	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.002-2	BDL	0.003	No Relax

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19.	Lead as Pb	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.01-2	BDL	0.01	No Relax.
20.	Zinc as Zn	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.02-50	0.15	5.0	15
21.	Anionic Detergents(As MBAS)	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 5540 A+C	0.01-5	BDL	0.2	1.0
22.	Total Chromium as Cr	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3111 A+B	0.05-20	BDL	0.05	No Relax.
23.	Mineral Oil 6	mg/l	IS 3025 (Part 39) Class -6	0.01-10	BDL	0.5	No Relax.
24.	Free Residual Chlorine	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500-Cl B	0.5-10	BDL	0.20	1.0
25.	Selenium as Se	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.01-10	BDL	0.01	No Relax.
26.	Cyanide as CN	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-10	BDL	0.05	No Relax.
27.	Aluminum as Al	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3500AlA+B	0.2-100	BDL	0.03	No Relax.
28.	Barium as Ba	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.2-20	BDL	0.7	No Relax.
29.	Molybdenum as Mo	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.05-10	BDL	0.07	No Relax.
30.	Nickel as Ni	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.02-20	BDL	0.02	No Relax.
31.	Silver as Ag	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.05-10	BDL	0.1	No Relax.
32.	Sulphide as H <sub>2</sub> S	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 4500 S <sub>2</sub> -F	0.1-10	BDL	0.05	No Relax.
33.	Chloramines as Cl <sub>2</sub>	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	1.0-20	ND	4.0	No Relax.
34.	Bromoform	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-2	ND	0.1	No Relax.
35.	Dibromoform Methane	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-2	ND	0.1	No Relax.
36.	BromoDichloro Methane	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.05-2	ND	0.06	No Relax.
37.	Chloroform	mg/l	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.1-2	ND	0.2	No Relax.
38.	Polynuclear aromatic Hydrogen as PAH	(ug/l)	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	0.0001-0.5	ND	0.0001	No Relax.
39.	Pesticide	(ug/l)	APHA, 23 <sup>rd</sup> Ed. 2017, 3112 A+B	1-20	ND	-	-
40.	Total coliform	(MPN/100 ml)	APHA, 23 <sup>rd</sup> Ed. 2017, 9221, B+C	1.8	Absent	Absent	Absent
41.	E.coli	(MPN/100 ml)	APHA, 23 <sup>rd</sup> Ed. 2017, 9221, B+E	1.8	Absent	Absent	Absent

(Authorized Signatory)

# Horticulture at a Glance



**MOEF Guideline** : 33% of total  
Land to be used for Plantation

Hence, total plantation area should  
be **33%** of 610 Ha = **201 Ha**

## **Plantation done till March'24**

Area Planted : **283 Ha**  
(46% of 610 Ha)

Trees Planted : **6,01,752 nos.**  
( it includes shrubs )

## **Year Wise Plantation Detail**

F/Year	Area (Ha)	No. of Plants
10-11	65.04	183576
11-12	71.11	217509
13-14	22.10	48133
14-15	9.50	11500
15-16	4.50	7200
16-17	22.50	45000
17-18	19.02	21134
18-19	30.00	18150
19-20	22.25	34800
20-21	17.00	14750
21-22	Gap Filling	9650
22-23	Gap Filling	10730
23-24	Gap Filling	16550
Total	283	6,01,752

Factory Medical Officer(s) and Para-medical staff/First Aiders in our factory (full time & part time)

SL No	Medical Team	Designation	Qualification
1	Male Doctor	CMO	MBBS, MD AFH
2	Female Doctor	MO	MBBS
3	Female Nurse	Nurse	GNM
4	Male Nurse	Nurse	GNM
5	Male Nurse	Nurse	GNM
6	Male Nurse	Nurse	GNM
7	Male Ward Boy	Ward Boy	Intermediate
8	Male Ward Boy	Ward Boy	Intermediate
9	Male Ward Boy	Ward Boy	Intermediate
10	Male Driver	Driver	J.High school
11	Male Driver	Driver	J.High school



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Approved: by National Accreditation Board for Testing and Calibration Laboratories

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&amp;CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

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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	:	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)

# 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

Gwalior-474 011, M.P., India

☎0751-3566867, 2232177

Email: aelgwalior@gmail.com, aetri2016@gmail.com, aetricenter@gmail.com

Web: www.aetri.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	:	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

(Authorized Signatory)

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Web: www.aetri.com



TC-12750

## 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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TC-12750

## 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-12750

## 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	04.03.20 24	08.03.20 24	11.03.20 24	15.03.20 24	18.03.20 24	22.03.2 024	27.03.2 024	29.03.20 24	Standards
1.	Particulate matter (less than 10 µm)	µg/m <sup>3</sup>	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/m <sup>3</sup>	30.24	34.28	28.69	32.59	32.89	34.00	32.15	35.12	60/Day
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	24.59	27.49	20.36	27.59	24.79	28.67	25.64	25.07	80/Day
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	10.89	15.21	11.31	9.00	17.34	14.26	10.59	11.38	80/Day
5.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	100/8*Hours
6.	Lead (Pb)	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m <sup>3</sup>	0.034	0.029	0.024	0.026	0.031	0.032	0.028	0.024	02/8*Hours
8.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
10.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified

(Authorized Signatory)

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Web: www.aetri.com



TC-12750

## 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/m <sup>3</sup>	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/m <sup>3</sup>	30.59	28.69	30.59	27.69	34.56	26.87	30.89	36.25	60/Day
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	24.56	18.79	20.13	19.68	27.58	18.67	27.12	29.31	80/Day
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	15.64	10.69	11.59	12.54	15.67	10.59	19.71	15.34	80/Day
5.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	100/8*Hours
6.	Lead (Pb)	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m <sup>3</sup>	0.028	0.027	0.035	0.034	0.027	0.021	0.032	0.03	02/8*Hours
8.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
10.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified

(Authorized Signatory)

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TC-12750

## 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 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/m <sup>3</sup>	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/m <sup>3</sup>	31.26	30.69	24.81	34.81	34.18	35.16	30.69	30.71	60/Day
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	28.34	26.41	18.47	28.14	28.46	31.56	22.98	29.34	80/Day
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	13.47	16.81	9.00	14.21	15.31	18.37	9.46	14.81	80/Day
5.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	100/8*Hours
6.	Lead (Pb)	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m <sup>3</sup>	0.029	0.03	0.034	0.022	0.029	0.025	0.031	0.022	02/8*Hours
8.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
10.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified

(Authorized Signatory)

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TC-12750

## TEST REPORT

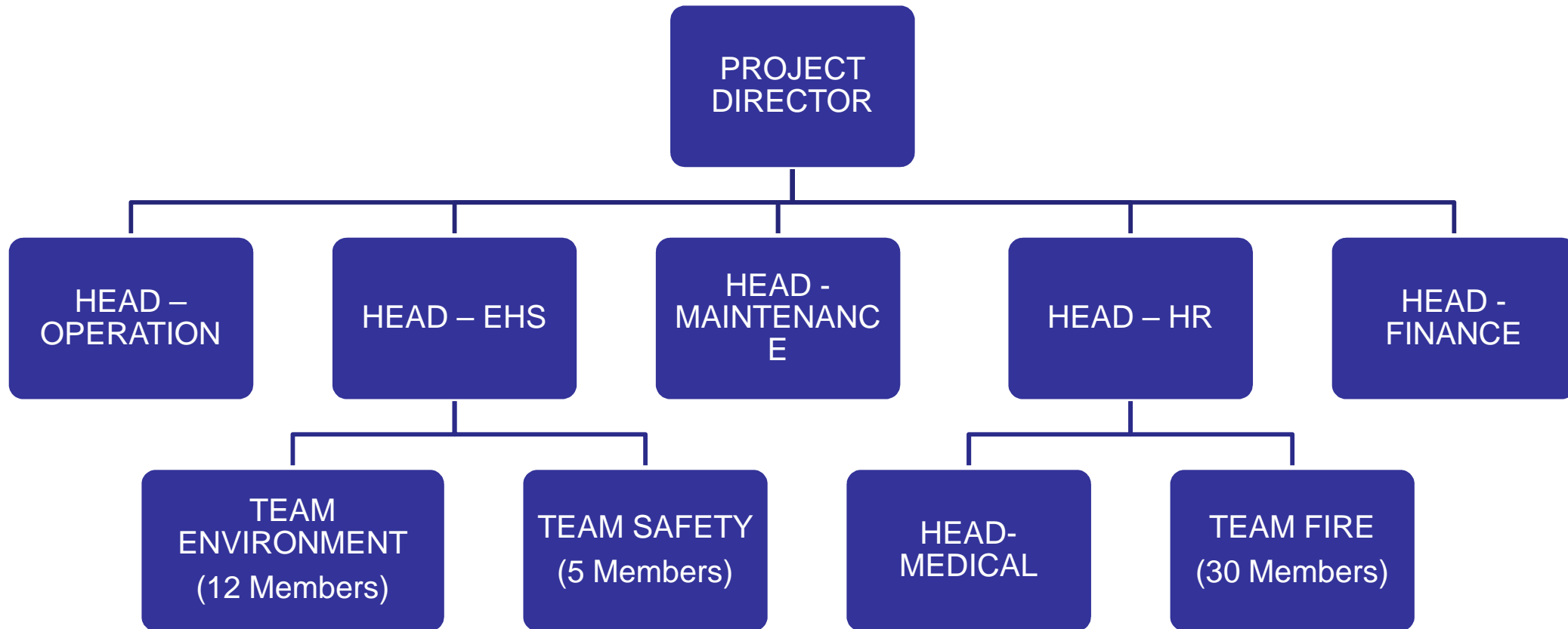
Company Name	:	Rosa Power Supply Co. Ltd.	Date of Issue	:	05/04/2024
Address	:	Rosa, Shahjahanpur, UP, India	Date of Sample Received	:	As per Schedule
Nature of Sample	:	Ambient Air Monitoring	Qty of Sample	:	30 ml
Lab. Ref. No.	:	AERL/300324A0008	Sample Bottle	:	Plastic packing & Filter paper
Dispatch 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/m <sup>3</sup>	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/m <sup>3</sup>	33.14	32.58	28.67	30.58	36.57	27.69	34.25	34.57	60/Day
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	20.89	21.51	22.19	22.46	29.41	19.34	26.41	27.16	80/Day
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	10.89	14.87	14.21	19.46	18.71	12.47	12.46	18.00	80/Day
5.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	100/8*Hours
6.	Lead (Pb)	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m <sup>3</sup>	0.026	0.028	0.034	0.035	0.029	0.025	0.032	0.033	02/8*Hours
8.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
10.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified

(Authorized Signatory)

## ROSA POWER SUPPLY COMPANY LIMITED ORGANISATION STRUCTURE





**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/STAGE\_I&II/04/2024/04

Date: 05.04.2024

To,  
The Member Secretary  
Uttar Pradesh Pollution Control Board  
TC 12 V, Vibhuti Khand,  
Gomti Nagar,  
Lucknow 226010

**Sub: Compliance Status – Quarterly Ash Content in Coal as 34% Stage – I & II**

Dear Sir,

This is with reference to the MoEF office memorandum dated 26<sup>th</sup> August, 2015, regarding average quarterly ash content in coal as 34%. As advised, please find enclosed the quarterly compliance reports for the period of FY 2023-24 i.e. **January 2024 to March 2024**.

Thanking You,

For Rosa Power Supply Co. Ltd.



(Authorized Signatory)

Cc: (I) Regional Officer UPPCB Bareilly  
(II) Regional Office MoEF, Lucknow - Online  
(III) MoEF & CC, New Delhi- Online  
(IV) CPCB, Lucknow

