

RELIANCE

Rosa Power Supply Company Ltd.

Registered Office:

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

Tel: +91 5842 306600
Fax: +91 5842 300003

Ref: RPSCL/Env/EC/05/2016/10

Date: 31.05.2016

To,
The Director
Ministry of Environment & Forests
Kendriya Bhawan, 5th 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 2015 to March 2016.

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: Ground Water Analysis Report in Ash Pond Area
Annexure 4: Green Belt development progress Report
Annexure 5: Noise Monitoring Report
Annexure 6: AAQ (Ambient Air Quality) Monitoring Report
Annexure 7: Test Report for Ash & Sulphur Content in Coal

Corporate Office: I Block, Dhirubhai Ambani Knowledge City, Navi Mumbai 400710, Tel: +91 22 30386600, Fax: +91 22 30386999
Lucknow Office: F-519-520, Kasmanda House, 2, Park Road, Lucknow – 226001, Tel: +91 522 3018512 Fax: +91 522 3031062

Rosa Power Supply Company Limited
Rosa, Shajahanpur

Env . Clearance Letter No. J-13011/19/2005-IA (T) dated 14.03.2006 Stage-I,
Project Code: UP-30-191-06

Compliance Status of Environmental Clearance for 2 X 300 MW Rosa Thermal Power Project

Sr. No.	Stipulated Clearance Condition	Compliance status
3. Conditions and Safeguards		
(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.	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.	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 th July 2009.
(iii)	Closed circuit cooling system with a COC of not less than 4 shall be adopted.	Noted & Complied. Cooling water system designed for 4.0 Cycle of concentration.
(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.	The project site has shallow ground water level hence artificial recharge to ground water shall not be feasible. In this regard we have consulted Central Ground Water Authority and they have negated the above requirement vide letter No. 32-5/CGWA/RWH/OTH/08-332 dated 29/01/2008.
(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 st 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 xl) is added with amendment. Compliance of additional compliance put in subsequent continuation. For the determination of HFL we have already submitted a letter (letter No. 617/Rosa Project dated 18/02/06) issued by the Executive

Sr. No.	Stipulated Clearance Condition	Compliance status																								
		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.																								
(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.	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 attached as Annexure-I																								
(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.	Rehabilitation & Resettlement plan has been prepared in line with NRRP 2007 and submitted to District Administration as well as MoEF.																								
(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.	Continuous online monitoring system of CODEL, UK make has been installed for stack emission and connected online with CPCB server also. Stack Emission Monitoring Report is attached as Annexure-II																								
(ix)	Electrostatic Precipitators (ESPs) with an efficiency of 99.9% efficiency shall be installed to limit particulate emission within 100 mg/Nm ³ . Automatic system for shutting down the power plant in the event of non-functioning of ESPs shall be installed.	Noted and incorporated to design. A brief technical detail of ESP is as under. <table border="1" data-bbox="800 1283 1414 1871"> <thead> <tr> <th data-bbox="800 1283 902 1310">S.No.</th> <th data-bbox="902 1283 1138 1310">Parameters</th> <th data-bbox="1138 1283 1414 1310">Value</th> </tr> </thead> <tbody> <tr> <td data-bbox="800 1310 902 1394">1.</td> <td data-bbox="902 1310 1138 1394">Type of ESP</td> <td data-bbox="1138 1310 1414 1394">Double pass,7 Electrical Fields</td> </tr> <tr> <td data-bbox="800 1394 902 1472">2.</td> <td data-bbox="902 1394 1138 1472">Collection efficiency</td> <td data-bbox="1138 1394 1414 1472">99.94%</td> </tr> <tr> <td data-bbox="800 1472 902 1541">3.</td> <td data-bbox="902 1472 1138 1541">Size of ESP</td> <td data-bbox="1138 1472 1414 1541">54.38x26.6x31.52</td> </tr> <tr> <td data-bbox="800 1541 902 1619">4.</td> <td data-bbox="902 1541 1138 1619">Specific Collection Area</td> <td data-bbox="1138 1541 1414 1619">207.55 m²/m³/sec</td> </tr> <tr> <td data-bbox="800 1619 902 1696">5.</td> <td data-bbox="902 1619 1138 1696">Flue Gas Velocity</td> <td data-bbox="1138 1619 1414 1696">0.87 m/sec</td> </tr> <tr> <td data-bbox="800 1696 902 1774">6.</td> <td data-bbox="902 1696 1138 1774">Inlet Dust Concentration</td> <td data-bbox="1138 1696 1414 1774">54.4 g/Nm³</td> </tr> <tr> <td data-bbox="800 1774 902 1871">7.</td> <td data-bbox="902 1774 1138 1871">Particulate Emission</td> <td data-bbox="1138 1774 1414 1871">70 mg/Nm³(Design Value : One Field out of service)</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 ² /m ³ /sec	5.	Flue Gas Velocity	0.87 m/sec	6.	Inlet Dust Concentration	54.4 g/Nm ³	7.	Particulate Emission	70 mg/Nm ³ (Design Value : One Field out of service)
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(x)	Ash and Sulphur content in the coal	Complied.																								

Sr. No.	Stipulated Clearance Condition	Compliance status
	to be used as fuel in the project shall not exceed 40% and 0.28 % respectively.	Copy of Test Report of Coal sample enclosed as Annexure-XII
(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.	The condition has been amended vide letter no. F. No. J-13012/19/2005-IA.II(T) dated 1st October,2008 which states that; 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 th year onwards as per MoEF Notification dated 3 rd Nov 2009. Unutilized fly ash and bottom ash shall be disposed off in the ash pond through conventional slurry system.”
(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.	A ground water quality report is attached herewith as Annexure-III
(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.	The status of Plantation is attached as Annexure-IV
(xiv)	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First aid, ambulance & sanitation facility was provided by contractors at construction site during construction phase.
(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.	The Noise level monitoring is being carried out regularly and a copy of monitoring report attached herewith as Annexure-V
(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.	The Ambient air quality monitoring is being carried out regularly and a copy of monitoring report attached as Annexure-VI
(xvii)	For controlling fugitive dust, regular sprinkling of water in coal storage area and other vulnerable areas of the plant shall be ensured.	Following measures taken at CHP and other vulnerable area - 1. Dry fog system at wagon tippler 2. Dust extraction system at Crusher House 3. Water sprinkling system on conveyors

Sr. No.	Stipulated Clearance Condition	Compliance status
		<p>and track hopper.</p> <p>4. Road wetting through water tankers.</p> <p>5. Speed limit of 20 KMPH in plant premises</p>
(xviii)	<p>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 http://envfor.nic.in,</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)	<p>A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.</p>	<p>A separate Environment Health & Safety (EHS) cell has been formed from different discipline for implementation & monitoring of the stipulated environmental safeguards.</p>
(xx)	<p>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.</p>	<p>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 1st June and 1st December of each calendar year as per EIA Notification 2006.</p>
(xxi)	<p>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.</p>	<p>EIA/ EMP report already submitted to the Regional Office</p>
(xxii)	<p>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</p>	<p>Initially Rs. 100.0 crores allocated for implementation of environmental protection measures. Now the environmental protection measures cost has been increased and item wise breakup is as under:</p>

Sr. No.	Stipulated Clearance Condition	Compliance status																						
	should be reported to the Ministry.	<p style="text-align: center;">FIGURE IN CRORES</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">1. ESP</td> <td style="text-align: right;">47.1 Cr</td> </tr> <tr> <td>2. ETP</td> <td style="text-align: right;">12.04 Cr</td> </tr> <tr> <td>3. STP</td> <td style="text-align: right;">5.00 Cr</td> </tr> <tr> <td>4. Ash Handling</td> <td style="text-align: right;">62.85 Cr</td> </tr> <tr> <td>5. Roads & Drains</td> <td style="text-align: right;">11.13 Cr</td> </tr> <tr> <td>6. Dust Suppression</td> <td style="text-align: right;">5.00 Cr</td> </tr> <tr> <td>7. Stack</td> <td style="text-align: right;">3.5 Cr</td> </tr> <tr> <td>8. Dry fog system at CHP</td> <td style="text-align: right;">10 lac</td> </tr> <tr> <td>9. Green belt development</td> <td style="text-align: right;">5 Cr</td> </tr> <tr> <td>10. CAAQMS at 4 locations</td> <td style="text-align: right;">1.8 Cr</td> </tr> <tr> <td>11. Continuous Effluent Monitoring System (CEMS)</td> <td style="text-align: right;">0.12 Cr</td> </tr> </table>	1. ESP	47.1 Cr	2. ETP	12.04 Cr	3. STP	5.00 Cr	4. Ash Handling	62.85 Cr	5. Roads & Drains	11.13 Cr	6. Dust Suppression	5.00 Cr	7. Stack	3.5 Cr	8. Dry fog system at CHP	10 lac	9. Green belt development	5 Cr	10. CAAQMS at 4 locations	1.8 Cr	11. Continuous Effluent Monitoring System (CEMS)	0.12 Cr
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(xxiii)	Full cooperation should be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Lucknow / the CPCB / the SPCB who would be monitoring the compliance of environmental status.	Noted & adhered.																						
General Conditions																								
4.	The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.	Noted.																						
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																						
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.	Noted																						
7.	The above stipulations shall be enforced among others under the Water (Prevention and Control of	Noted & adhered.																						

Sr. No.	Stipulated Clearance Condition	Compliance status
	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.	
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 less than 34%. Refer Annex_VII.



Analitika Ecolab Pvt. Ltd.

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Fax: +91 11 2331 0093

Registered Office: 63/1, Kailash Vihar, Near ITO, City Center Site-II, Gwalior, (M.P.) India
Phone: +91 751 2232177, Email: aelgwalior@gmail.com
Website: analitikalab.co.in

TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: 24/03/2016
Nature of Sample	: Effluent Water Sample	Qty of Sample	: 2.0Ltr
Lab. Ref. No.	: AEL/AL/2016/219-17	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Description	: ETP Outlet
Samle Collected by	: AEL Staff	D/o Sample Taken	: 22/03/2016
D/o Sample Analysis	: 24/03/2016	D/o of Completion Analysis	: 29/03/2016

TEST RESULT

S. No.	PARAMETER	UNIT	ROTOCOL	RESULTS	Standard (CPCB) (max)	
					Inlands Surface Water	Public Sewer
1	pH	.....	APHA 4500 H+B	7.59	5.5 - 9.0	5.5 - 9.0
2	Total Suspended Solids (TSS)	Mg/l	APHA 4500 H+B	38.00	100	600
3	Bio-Chemical Oxygen Demand (3days at 27°C) (BOD)	Mg/l	APHA 4500 (D)	7.00	30	350
4	Chemical Oxygen Demand (COD)	Mg/l	APHA 4500 (B)	28.00	250	NS
5	Oil & Grease (O&G)	Mg/l	APHA 4500 (B)	BDL	10	20

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Website: analitikalab.co.in

TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: 24/02/2016
Nature of Sample	: Effluent Water Sample	Qty of Sample	: 2.0Ltr
Lab. Ref. No.	: AEL/AL/2016/219-18	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Description	: ETP Inlet
Sample Collected by	: AEL Staff	D/o Sample Taken	: 22/03/2016
D/o Sample Analysis	: 24/03/2016	D/o of Completion Analysis	: 29/03/2016

TEST RESULT

S. No.	PARAMETER	UNIT	ROTOCOL	RESULTS
1	pH	.....	APHA 4500 H+B	7.46
2	Total Suspended Solids(TSS)	Mg/l	APHA 4500 H+B	54.0
3	Bio-Chemical Oxygen Demand (3days at 27°C) (BOD)	Mg/l	APHA 4500 (D)	27.0
4	Chemical Oxygen Demand (COD)	Mg/l	APHA 4500 (B)	48.0
5	Oil & Grease (O&G)	Mg/l	APHA 4500 (B)	1.2

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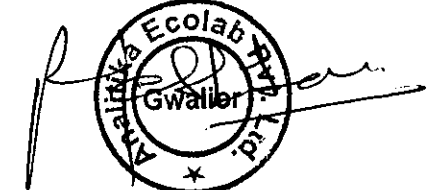
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Website: analitikalab.co.in

TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: 24/03/2016
Nature of Sample	: Sewage Water Sample	Qty of Sample	: 2.0Ltr
Lab. Ref. No.	: AEL/AL/2016/219-21	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Description	: Outlet Sample STP Plant Site
Samle Collected by	: AEL Staff	D/o Sample Taken	: 22/03/2016
D/o Sample Analysis	: 24/03/2016	D/o of Completion Analysis	: 29/03/2016

TEST RESULT

S. No.	PARAMETER	UNIT	PROTOCOL	RESULTS	Standard (CPCB) (max)	
					Inlands Surface Water	Public Sewer
1	pH	.....	APHA 4500 H+B	7.65	5.5 - 9.0	5.5 - 9.0
2	Total Suspended Solids(TSS)	Mg/l	APHA 4500 H+B	42.0	100	600
3	Bio-Chemical Oxygen Demand (3days at 27°C)(BOD)	Mg/l	APHA 4500 (D)	10.0	30	350
4	Chemical Oxygen Demand (COD)	Mg/l	APHA 4500 (B)	68.0	250	NS
5	Oil & Grease (O&G)	Mg/l	APHA 4500 (B)	BDL	10	20


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TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: 24/03/2016
Nature of Sample	: Sewage Water Sample	Qty of Sample	: 2.0Ltr
Lab. Ref. No.	: AEL/AL/2016/219-22	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Description	: Inlet Sample STP Plant Site
Sample Collected by	AEL Staff	D/o Sample Taken	: 22/03/2016
D/o Sample Analysis	: 24/03/2016	D/o of Completion Analysis	: 29/03/2016

TEST RESULT

S. No.	PARAMETER	UNIT	PROTOCOL	RESULTS
1	pH	.....	APHA 4500 H+B	7.31
2	Total Suspended Solids(TSS)	Mg/l	APHA 4500 H+B	90.0
3	Bio-Chemical Oxygen Demand (3days at 27°C)(BOD)	Mg/l	APHA 4500 (D)	36.0
4	Chemical Oxygen Demand (COD)	Mg/l	APHA 4500 (B)	176.0
5	Oil & Grease (O&G)	Mg/l	APHA 4500 (B)	1.6


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Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: 24/03/2016
Nature of Sample	: Sewage Water Sample	Qty of Sample	: 2.0Ltr
Lab. Ref. No.	: AEL/AI/2016/219-19	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Description	: Outlet Sample STP Town Ship
Samle Collected by	AEL Staff	D/o Sample Taken	: 22/03/2016
D/o Sample Analysis	: 24/03/2016	D/o of Completion Analysis	: 29/03/2016

TEST RESULT

S. No.	PARAMETER	UNIT	PROTOCOL	RESULTS	Standard (CPCB) (max)	
					Inlands Surface Water	Public Sewer
1	pH	.....	APHA 4500 H+B	7.86	5.5 - 9.0	5.5 - 9.0
2	Total Suspended Solids(TSS)	Mg/l	APHA 4500 H+B	46.0	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)	36.0	250	NS
5	Oil & Grease (O&G)	Mg/l	APHA 4500 (B)	BDL	10	20

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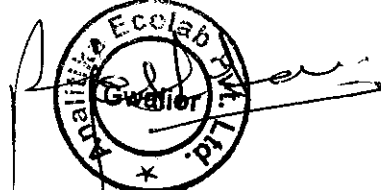
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Website: analitikalab.co.in

TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: 24/03/2016
Nature of Sample	: Sewage Water Sample	Qty of Sample	: 2.0Ltr
Lab. Ref. No.	: AEL/AL/2016/219-20	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Description	: Inlet Sample STP Town Ship
Sample Collected by	: AEL Staff	D/o Sample Taken	: 22/03/2016
D/o Sample Analysis	: 24/03/2016	D/o of Completion Analysis	: 29/03/2016

TEST RESULT

S. No.	PARAMETER	UNIT	ROTOCOL	RESULTS
1	pH	.....	APHA 4500 H+B	7.70
2	Total Suspended Solids(TSS)	Mg/l	APHA 4500 H+B	78.0
3	Bio-Chemical Oxygen Demand (3days at 27°C)(BOD)	Mg/l	APHA 4500 (D)	30.0
4	Chemical Oxygen Demand (COD)	Mg/l	APHA 4500 (B)	144.0
5	Oil & Grease (O&G)	Mg/l	APHA 4500 (B)	0.80


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TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: 01/03/2016 To 29/03/2016
Location	: Stack Monitoring	Monitoring Conducted by	: AEL
Source of Monitoring	: Boiler Stack -1 (Bi-Flue) of Stage - 1	Environmental Conditions during Sampling	: Sunny
Lab. Ref. No.	: AEL/AL/2016/219-13	Material of Construction	: MS
Dispatch No.	: DES/AEL/TR-1/2016/	Height From Ground Level	: 105 M

Stack Area / Shape	Boiler Stack - 1 05M/ Circular
Capacity	1025TPH
Type of Fuel Used/Consumption per day	Bio-flue/ 190tph
Thimble No.	M-1,3
Stack Height (M)	275

TEST RESULT

Date of Monitoring	Temperature (°C)	Velocity (m/s)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)	P.M. (mg/Nm ³)
07.03.16	127.00	26.26	388.27	120.16	41.11
14.03.16	128.00	27.53	395.73	125.11	42.33

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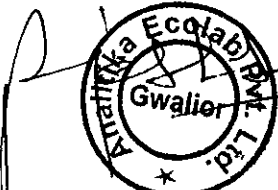
TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: 01/03/2016 To 29/03/2016
Location	: Stack Monitoring	Monitoring Conducted by	: AEL
Source of Monitoring	: Boiler Stack -1 (Bi-Flue) of Stage - 1	Environmental Conditions during Sampling	: Sunny
Lab. Ref. No.	: AEL/AL/2016/219-14	Material of Construction	: MS
Dispatch No.	: DES/AEL/TR-1/2016/	Height From Ground Level	: 105 M

	Boiler Stack - 2
Stack Area / Shape	05M/ Circular
Capacity	1025 TPH
Type of Fuel Used/Consumption per day	Bio-flue/ 190tph
Thimble No.	M-2,04,06,11
Stack Height (M)	275

TEST RESULT

Date of Monitoring	Temperature (°C)	Velocity (m/s)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)	P.M. (mg/Nm ³)
07.03.16	128.00	28.13	406.40	119.23	37.11
14.03.16	129.00	27.56	392.00	127.19	45.33
21.03.16	127.00	27.19	399.47	124.82	43.33
28.03.16	126.00	27.76	388.27	125.05	47.33


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TEST REPORT

Company Name: M/s, Rosa Power Supply Co. Ltd.

Date of Issue: 01/02/2016

Address: Rosa, Shahjahanpur, UP, India

D/o Sample received: 20.01.2016

Nature of Sample: Drinking Water(Ash Pond Area)

Sampling Done By: ALPL

Lab. ref. No: AEL/AL/2016/215-34

Sample Location : hand pump water ash pond area Near
Majar.

TEST RESULT

S. No.	PARAMETER	UNIT	PROTOCOL	RESULTS	Drinking Water Standards /Limit (IS:10500- 2151)	
					Desirable Limit	Permissible
1	Colour	.....	APHA-2120(C)	<5	5 max.	25 max.
2	Odure	....	IS:3025 (P-5)	Unobjectionable	Unobjectionable	No Relaxation
3	Taste	....	IS:3025 (P-8)	Agreeable	Agreeable	No Relaxation
4	Turbidity	....	APHA-2130(B)	<1	5.0 max.	10 max.
5	pH	.....	APHA- 4500 H+B	7.58	6.5 -8.5	No Relaxation
6	Total Hardness	mg/l	APHA-2340(C)	290.0	300 max.	600 max.
7	Iron as Fe	mg/l	APHA-3111(B)	0.17	0.3 max.	1.0 max.
8	Chloride as Cl	mg/l	APHA-4500(B)	22.35	250 max.	1000 max.
9	Residual Free Chlorine (RFC)	mg/l	APHA-4500(B)	Nil	0.2 min.	No Relaxation
10	Total Dissolve Solids	mg/l	APHA-2540(C)	324.0	500 max.	2000 max.
11	Calcium as Ca	mg/l	APHA-3500(B)	68.8	75 max.	200 max.

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12	Magnesium as Mg	mg/l	APHA-3500 Mg(B)	28.67	30	100
13	Copper as Cu	mg/l	APHA-3111(B)	<0.02	0.05 max.	1.5 max.
14	Manganese as Mn	mg/l	APHA-3111(B)	<0.01	0.1 max.	0.3 max.
15	Sulphate as SO ₄	mg/l	APHA-4500(C)	18.23	200 max.	400 max.
16	Nitrate as NO ₃	mg/l	APHA-4500 NO ₃ (B)	1.4	45 max.	100 max.
17	Fluorides as F	mg/l	APHA-4500(D)	0.6	1.0 max.	1.5 max.
18	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA-5530	<0.001	0.001 max.	0.002 max.
19	Mercury as Hg	mg/l	APHA-3112(B)	<0.001	0.001 max.	No Relaxation
20	Cadmium as Cd	mg/l	APHA-3111(B)	<0.004	0.01 max.	No Relaxation
21	Selenium as Se	mg/l	APHA-3113(B)	<0.01	0.01 max.	No Relaxation
22	Arsenic as As	mg/l	APHA-3500(B)	<0.01	0.05 max.	No Relaxation
23	Cyanide as CN	mg/l	APHA-4500(C)	<0.01	0.05 max.	No Relaxation
24	Lead as Pb	mg/l	APHA-3111(B)	<0.01	0.05 max.	No Relaxation
25	Zinc as Zn	mg/l	APHA-3111(B)	<0.01	5.0 max.	15 max
26	Anionic Detergent (MBAS)	mg/l	APHA-4540	<0.05	0.2 max.	1.0 max.
27	Chromium as Cr ⁺⁶	mg/l	APHA-3500 Cr-B	<0.01	0.05 max.	No Relaxation
28	Polynuclear Aromatic Hydrogen (PAH)	mg/l	APHA-6440	<0.001	.....	.....
29	Mineral Oil	mg/l	IS:3025(P-39)	<0.01	0.01 max.	0.03 max
30	Pesticides	mg/l	IS:14628	<0.01	Absent	0.001
31	Alkalinity	mg/l	APHA-2320(B)	278.0	200 max.	600 max.
32	Aluminium as Al	mg/l	APHA-3500(B)	<0.02	0.03 max.	0.2 max.
33	Boron as B	mg/l	APHA-4500(B)	<0.05	1.0 max.	5.0 max.
34	Total Coliform (MPN)	No./100 ml	APHA-9215 (A,B)	<1.8	<10	<10
35	Faecal Coliform	APHA-9227 (E)	Absent	Absent	Absent

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TEST REPORT

Company Name: M/s, Rosa Power Supply Co. Ltd.

Date of Issue: 01/02/2016

Address: Rosa, Shahjhanpur, UP, India

D/o Sample received: 20.01.2016

Nature of Sample: Drinking Water(Ash Pond Area)

Sampling Done By: ALPL

Lab. ref. No: AEL/AL/2016/215-35

Sample Location : hand pump water sample near
ash pond village Behti

TEST RESULT

S. No.	PARAMETER	UNIT	PROTOCOL	RESULTS	Drinking Water Standards /Limit (IS:10500- 2151)	
					Desirable Limit	Permissible
1	Colour	.....	APHA-2120(C)	<5	5 max.	25 max.
2	Odure	....	IS:3025 (P-5)	Unobjectionable	Unobjectionable	No Relaxation
3	Taste	....	IS:3025 (P-8)	Agreeable	Agreeable	No Relaxation
4	Turbidity	....	APHA-2130(B)	<1	5.0 max.	10 max.
5	pH	.....	APHA- 4500 H+B	7.72	6.5 -8.5	No Relaxation
6	Total Hardness	mg/l	APHA-2340(C)	284.0	300 max.	600 max.
7	Iron as Fe	mg/l	APHA-3111(B)	0.15	0.3 max.	1.0 max.
8	Chloride as Cl	mg/l	APHA-4500(B)	23.23	250 max.	1000 max.
9	Residual Free Chlorine (RFC)	mg/l	APHA-4500(B)	Nil	0.2 min.	No Relaxation
10	Total Dissolve Solids	mg/l	APHA-2540(C)	316.0	500 max.	2000 max.
11	Calcium as Ca	mg/l	APHA-3500(B)	67.0	75 max.	200 max.

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12	Magnesium as Mg	mg/l	APHA-3500 Mg(B)	28.30	30	100
13	Copper as Cu	mg/l	APHA-3111(B)	<0.01	0.05 max.	1.5 max.
14	Manganese as Mn	mg/l	APHA-3111(B)	<0.01	0.1 max.	0.3 max.
15	Sulphate as SO ₄	mg/l	APHA-4500(C)	16.23	200 max.	400 max.
16	Nitrate as NO ₃	mg/l	APHA-4500 NO ₃ (B)	0.14	45 max.	100 max.
17	Fluorides as F	mg/l	APHA-4500(D)	0.40	1.0 max.	1.5 max.
18	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA-5530	<0.001	0.001 max.	0.002 max.
19	Mercury as Hg	mg/l	APHA-3112(B)	<0.001	0.001 max.	No Relaxation
20	Cadmium as Cd	mg/l	APHA-3111(B)	0<.003	0.01 max.	No Relaxation
21	Selenium as Se	mg/l	APHA-3113(B)	<0.01	0.01 max.	No Relaxation
22	Arsenic as As	mg/l	APHA-3500(B)	<0.01	0.05 max.	No Relaxation
23	Cyanide as CN	mg/l	APHA-4500(C)	<0.01	0.05 max.	No Relaxation
24	Lead as Pb	mg/l	APHA-3111(B)	<0.01	0.05 max.	No Relaxation
25	Zinc as Zn	mg/l	APHA-3111(B)	<0.01	5.0 max.	15 max
26	Anionic Detergent (MBAS)	mg/l	APHA-4540	<0.05	0.2 max.	1.0 max.
27	Chromium as Cr ⁺⁶	mg/l	APHA-3500 Cr-B	<0.01	0.05 max.	No Relaxation
28	Polynuclear Aromatic Hydrogen (PAH)	mg/l	APHA-6440	<0.001	.....	.....
29	Mineral Oil	mg/l	IS:3025(P-39)	<0.01	0.01 max.	0.03 max
30	Pesticides	mg/l	IS:14628	<0.01	Absent	0.001
31	Alkalinity	mg/l	APHA-2320(B)	296.0	200 max.	600 max.
32	Aluminium as Al	mg/l	APHA-3500(B)	<0.02	0.03 max.	0.2 max.
33	Boron as B	mg/l	APHA-4500(B)	<0.05	1.0 max.	5.0 max.
34	Total Coliform (MPN)	No./100 ml	APHA-9215 (A,B)	<1.8	<10	<10
35	Faecal Coliform	APHA-9227 (E)	Absent	Absent	Absent

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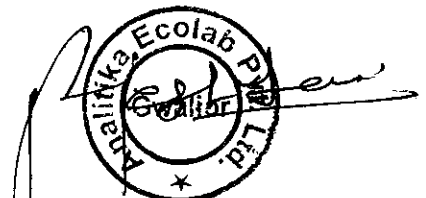
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Website: analitikalab.co.in

TEST REPORT

Company Name: M/s, Rosa Power Supply Co. Ltd. Date of Issue: 01/02/2016
Address: Rosa, Shahjhanpur, UP, India D/o Sample received: 20.01.2016
Nature of Sample: Drinking Water(Ash Pond Area) Sampling Done By: ALPL
Lab. ref. No: AEL/AL/2016/215-36
Sample Location : hand pump water sample near
ash pond, Hardoi road side.

TEST RESULT

S. No.	PARAMETER	UNIT	PROTOCOL	RESULTS	Drinking Water Standards /Limit (IS:10500- 2151)	
					Desirable Limit	Permissible
1	Colour	.....	APHA-2120(C)	<5	5 max.	25 max.
2	Odure	....	IS:3025 (P-5)	Unobjectionable	Unobjectionable	No Relaxation
3	Taste	....	IS:3025 (P-8)	Agreeable	Agreeable	No Relaxation
4	Turbidity	....	APHA-2130(B)	<1	5.0 max.	10 max.
5	pH	.....	APHA- 4500 H+B	7.48	6.5 -8.5	No Relaxation
6	Total Hardness	mg/l	APHA-2340(C)	276.0	300 max.	600 max.
7	Iron as Fe	mg/l	APHA-3111(B)	0.13	0.3 max.	1.0 max.
8	Chloride as Cl	mg/l	APHA-4500(B)	19.78	250 max.	1000 max.
9	Residual Free Chlorine (RFC)	mg/l	APHA-4500(B)	Nil	0.2 min.	No Relaxation
10	Total Dissolve Solids	mg/l	APHA-2540(C)	332.0	500 max.	2000 max.
11	Calcium as Ca	mg/l	APHA-3500(B)	71.0	75 max.	200 max.


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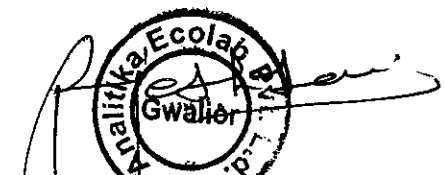
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12	Magnesium as Mg	mg/l	APHA-3500 Mg(B)	23.93	30	100
13	Copper as Cu	mg/l	APHA-3111(B)	<0.01	0.05 max.	1.5 max.
14	Manganese as Mn	mg/l	APHA-3111(B)	<0.01	0.1 max.	0.3 max.
15	Sulphate as SO ₄	mg/l	APHA-4500(C)	24.23	200 max.	400 max.
16	Nitrate as NO ₃	mg/l	APHA-4500 NO ₃ (B)	0.17	45 max.	100 max.
17	Fluorides as F	mg/l	APHA-4500(D)	0.35	1.0 max.	1.5 max.
18	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA-5530	<0.001	0.001 max.	0.002 max.
19	Mercury as Hg	mg/l	APHA-3112(B)	<0.001	0.001 max.	No Relaxation
20	Cadmium as Cd	mg/l	APHA-3111(B)	<0.004	0.01 max.	No Relaxation
21	Selenium as Se	mg/l	APHA-3113(B)	<0.01	0.01 max.	No Relaxation
22	Arsenic as As	mg/l	APHA-3500(B)	<0.01	0.05 max.	No Relaxation
23	Cyanide as CN	mg/l	APHA-4500(C)	<0.01	0.05 max.	No Relaxation
24	Lead as Pb	mg/l	APHA-3111(B)	<0.01	0.05 max.	No Relaxation
25	Zinc as Zn	mg/l	APHA-3111(B)	<0.01	5.0 max.	15 max
26	Anionic Detergent (MBAS)	mg/l	APHA-4540	<0.07	0.2 max.	1.0 max.
27	Chromium as Cr ⁺⁶	mg/l	APHA-3500 Cr-B	<0.01	0.05 max.	No Relaxation
28	Polynuclear Aromatic Hydrogen (PAH)	mg/l	APHA-6440	<0.001	.....	.....
29	Mineral Oil	mg/l	IS:3025(P-39)	<0.01	0.01 max.	0.03 max
30	Pesticides	mg/l	IS:14628	<0.01	Absent	0.001
31	Alkalinity	mg/l	APHA-2320(B)	278.0	200 max.	600 max.
32	Aluminium as Al	mg/l	APHA-3500(B)	<0.02	0.03 max.	0.2 max.
33	Boron as B	mg/l	APHA-4500(B)	<0.05	1.0 max.	5.0 max.
34	Total Coliform (MPN)	No./100 ml	APHA-9215 (A,B)	<1.8	<10	<10
35	Faecal Coliform	APHA-9227 (E)	Absent	Absent	Absent


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Website: analitikalab.co.in

TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa. Shahjahanpur, UP, India	Date of Sample Received	: As per Schedule
Nature of Sample	: Noise Monitoring	Qty of Sample	: NA
Lab. Ref. No.	: AEL/AL/2016/219-9	Sample Bottle	: NA
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Location	: Coal handling Plant
Samle Collected by	AEL Staff		

TEST RESULT

Date	DAY			NIGHT		
	L Min	L Max	Leq	L Min	L Max	Leq
03.03.16	55.20	68.40	64.01	49.30	56.90	52.70
10.03.16	53.20	62.30	58.58	51.10	58.20	54.26
17.03.16	54.20	66.20	60.36	51.20	57.30	53.84
24.03.16	51.70	65.40	59.89	50.70	57.50	53.54
MONTHLY AVERAGE	53.58	65.58	60.71	50.58	57.48	53.59
	MIN Leq		58.58	MIN Leq		52.70
	MAX Leq		64.01	MAX Leq		54.26

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Website: analitikalab.co.in

TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: As per Schedule
Nature of Sample	: Noise Monitoring	Qty of Sample	: NA
Lab. Ref. No.	: AEL/AL/2016/219-10	Sample Bottle	: NA
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Location	: Permanent Store
Samle Collected by	AEL Staff		

TEST RESULT

Date	DAY			NIGHT		
	L Min	L Max	Leq	L Min	L Max	Leq
02.03.16	57.00	70.10	65.13	47.80	57.30	53.57
09.03.16	49.80	65.30	59.09	48.20	55.20	51.32
16.03.16	53.20	63.20	60.03	51.20	59.10	54.95
23.03.16	56.00	67.30	60.42	50.80	56.00	53.52
MONTHLY AVERAGE	54.00	66.48	61.17	49.50	56.90	53.34
	MIN Leq		59.09	MIN Leq		51.32
	MAX Leq		65.13	MAX Leq		54.95


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Regional Office : BMS Business Center, 10 PVR Plaza Complexes, Connaught Circus
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Registered Office: 63/1, Kailash Vihar, Near ITO, City Center Site-II, Gwalior, (M.P.) India
Phone: +91 751 2232177, Email: aelgwalior@gmail.com
Website: analitikalab.co.in

TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: As per Schedule
Nature of Sample	: Noise Monitoring	Qty of Sample	: NA
Lab. Ref. No.	: AEL/AL/2016/219-11	Sample Bottle	: NA
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Location	: 1 meter from D.G. Area
Samle Collected by	: AEL Staff		

TEST RESULT

Date	DAY			NIGHT		
	L Min	L Max	Leq	L Min	L Max	Leq
3.03.16	53.60	68.40	63.05	48.30	56.10	52.16
10.03.16	55.60	64.90	59.45	48.30	59.10	54.53
17.03.16	52.30	64.00	59.89	49.30	55.50	52.07
24.03.16	54.10	63.60	59.85	48.70	59.10	54.36
MONTHLY AVERAGE	53.90	65.23	60.56	48.65	57.45	53.28
	MIN Leq		59.45	MIN Leq		52.07
	MAX Leq		63.05	MAX Leq		54.53

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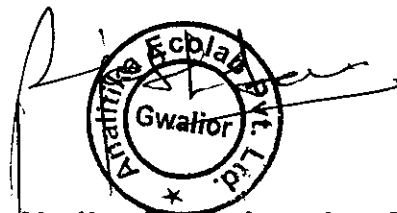
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TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
Address	: Rosa, Shahjahanpur, UP, India	Date of Sample Received	: As per Schedule
Nature of Sample	: Noise Monitoring	Qty of Sample	: NA
Lab. Ref. No.	: AEL/AL/2016/219-12	Sample Bottle	: NA
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Location	: Chaudhera
Sample Collected by	: AEL Staff		

TEST RESULT

Date	DAY			NIGHT		
	L Min	L Max	Leq	L Min	L Max	Leq
02.03.16	50.20	66.40	61.36	48.10	52.40	50.25
09.03.16	51.10	65.20	57.99	51.00	54.90	52.98
16.03.16	53.20	69.10	60.74	50.90	59.20	55.87
23.03.16	54.00	66.30	60.26	50.40	60.10	55.17
MONTHLY AVERAGE	52.13	66.75	60.09	50.10	56.65	53.57
	MIN Leq		57.99	MIN Leq		50.25
	MAX Leq		61.36	MAX Leq		55.87


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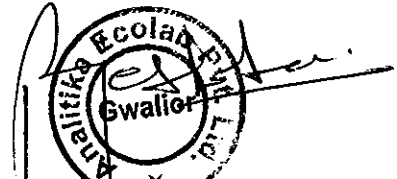
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TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
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.	: AEL/AL/2016/219-1	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/114	Sample Location	: Fire Station
Samle Collected by	AEL Staff		

TEST RESULT

S. No.	Parameters	Unit	04.03.16	15.03.16	Standards
1.	Sulphur Dioxide (SO ₂)	µg/m ³	19.25	20.27	80/Day
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	16.28	15.96	80/Day
3.	Particulate matter (less than 10 µm)	µg/m ³	58.26	59.28	110/Day
4.	Particulate matter (less than 2.5 µm)	µg/m ³	39.26	38.51	60/Day
5.	Ozone (O ₃)	µg/m ³	Nil	Nil	110/8*Hours
6.	Lead (Pb)	µg/m ³	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m ³	0.022	0.033	02/8*Hours
8.	Ammonia (NH ₃)	µg/m ³	Nil	Nil	400/Day
9.	Benzene (C ₆ H ₆)	µg/m ³	Nil	Nil	05/Annual
11.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m ³	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m ³	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m ³	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m ³	Nil	Nil	Not Specified


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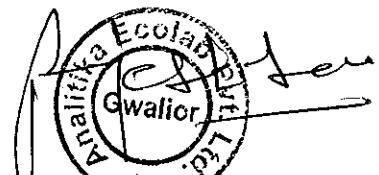
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Website: analitikalab.co.in

TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
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.	: AEL/AL/2016/219-2	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Location	: Diesel Dispensing Unit
Samle Collected by	: AEL Staff		

TEST RESULT

S. No.	Parameters	Unit	04.03.16	15.03.16	Standards
1.	Sulphur Dioxide (SO ₂)	µg/m ³	21.05	22.01	80/Day
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	16.49	15.26	80/Day
3.	Particulate matter (less than 10µm)	µg/m ³	68.37	66.32	110/Day
4.	Particulate matter (less than 2.5 µm)	µg/m ³	41.48	40.64	60/Day
5.	Ozone (O ₃)	µg/m ³	Nil	Nil	110/8*Hours
6.	Lead (Pb)	µg/m ³	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m ³	0.026	0.031	02/8*Hours
8.	Ammonia (NH ₃)	µg/m ³	Nil	Nil	400/Day
9.	Benzene (C ₆ H ₆)	µg/m ³	Nil	Nil	05/Annual
11.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m ³	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m ³	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m ³	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m ³	Nil	Nil	Not Specified


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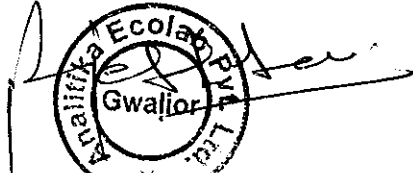
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TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
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.	: AEL/AL/2016/219-3	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Location	: Switch Yard
Samle Collected by	: AEL Staff		

TEST RESULT

S. No.	Parameters	Unit	08.03.16	22.03.16	Standards
1.	Sulphur Dioxide (SO ₂)	µg/m ³	17.42	16.24	80/Day
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	14.68	13.26	80/Day
3.	Particulate matter (less than 10 µm)	µg/m ³	60.26	57.49	110/Day
4.	Particulate matter (less than 2.5 µm)	µg/m ³	35.11	34.36	60/Day
5.	Ozone (O ₃)	µg/m ³	Nil	Nil	110/8*Hours
6.	Lead (Pb)	µg/m ³	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m ³	0.022	0.021	02/8*Hours
8.	Ammonia (NH ₃)	µg/m ³	Nil	Nil	400/Day
9.	Benzene (C ₆ H ₆)	µg/m ³	Nil	Nil	05/Annual
11.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m ³	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m ³	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m ³	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m ³	Nil	Nil	Not Specified


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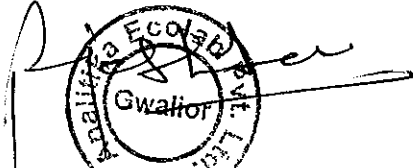
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Website: analitikalab.co.in

TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
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.	: AEL/AL/2016/219-4	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Location	: Coal Handling Plant (gate No. 25)
Samle Collected by	: AEL Staff		

TEST RESULT

S. No.	Parameters	Unit	08.03.16	22.03.16	Standards
1.	Sulphur Dioxide (SO ₂)	µg/m ³	20.56	19.36	80/Day
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	16.11	15.26	80/Day
3.	Particulate matter (less than 10 µm)	µg/m ³	73.27	74.48	110/Day
4.	Particulate matter (less than 2.5 µm)	µg/m ³	43.26	44.16	60/Day
5.	Ozone (O ₃)	µg/m ³	Nil	Nil	110/8*Hours
6.	Lead (Pb)	µg/m ³	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m ³	0.024	0.025	02/8*Hours
8.	Ammonia (NH ₃)	µg/m ³	Nil	Nil	400/Day
9.	Benzene (C ₆ H ₆)	µg/m ³	Nil	Nil	05/Annual
11.	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m ³	Nil	Nil	01/Annual
11.	Arsenic (As)	ng/m ³	Nil	Nil	06/Annual
12.	Nickel (Ni)	ng/m ³	Nil	Nil	20/Annual
13.	Mercury (Hg)	µg/m ³	Nil	Nil	Not Specified


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TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
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.	: AEL/AL/2016/219-5	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Location	: Chaudhera
Samle Collected by	: AEL Staff		

TEST RESULT

S. N o.	Parameters	Unit	03.03.16	06.03.16	10.03.16	13.03.16	17.03.16	20.03.16	24.03.16	27.03.16	Standards
1.	Sulphur Dioxide (SO ₂)	µg/m ³	19.26	18.27	17.25	18.09	19.24	18.30	17.93	18.35	80/Day
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	15.26	14.26	14.09	13.62	14.54	15.08	14.77	13.69	80/Day
3.	Particulate matter (less than 10 µm)	µg/m ³	40.23	41.26	40.21	41.28	42.35	43.26	42.80	41.26	110/Day
4.	Particulate matter (less than 2.5 µm)	µg/m ³	28.26	19.38	28.96	29.16	30.10	29.16	29.05	27.66	60/Day
5.	Ozone (O ₃)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	110/8*Hours
6.	Lead (Pb)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m ³	0.025	0.022	0.023	0.026	0.025	0.026	0.029	0.027	02/8*Hours
8.	Ammonia (NH ₃)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C ₆ H ₆)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
11	Benzo(a)Pyrene (BaP) Particulate Phase only	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11	Arsenic (As)	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12	Nickel (Ni)	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13	Mercury (Hg)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified

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TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
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.	: AEL/AL/2016/219-6	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Location	: Bilandapur
Samle Collected by	: AEL Staff		

TEST RESULT

S. N o.	Parameters	Unit	02.03.16	05.03.16	09.03.16	12.03.16	16.03.16	19.03.16	23.03.16	26.03.16	Standards
1.	Sulphur Dioxide (SO ₂)	µg/m ³	16.37	15.98	17.29	16.27	15.26	14.96	15.26	16.22	80/Day
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	13.26	12.36	14.22	13.03	12.20	11.82	12.01	13.07	80/Day
3.	Particulate matter (less than 10 µm)	µg/m ³	33.26	34.26	36.28	35.67	36.02	35.24	35.77	34.17	110/Day
4.	Particulate matter (less than 2.5 µm)	µg/m ³	27.24	26.25	27.14	26.49	27.19	26.89	26.53	28.06	60/Day
5.	Ozone (O ₃)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	110/8*Hours
6.	Lead (Pb)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m ³	0.020	0.026	0.024	0.032	0.027	0.029	0.031	0.024	02/8*Hours
8.	Ammonia (NH ₃)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C ₆ H ₆)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
11	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11	Arsenic (As)	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12	Nickel (Ni)	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13	Mercury (Hg)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified

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TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
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.	: AEL/AL/2016/219-7	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Location	: Maholia
Samle Collected by	: AEL Staff		

TEST RESULT

S. N o.	Parameters	Unit	03.03.16	06.03.16	10.03.16	13.03.16	17.03.16	20.03.16	24.03.16	27.03.16	Standards
1.	Sulphur Dioxide (SO ₂)	µg/m ³	16.30	15.96	16.02	15.26	13.58	15.49	15.23	14.72	80/Day
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	12.36	13.34	12.91	11.37	10.68	12.37	13.19	11.89	80/Day
3.	Particulate matter (less than 10µm)	µg/m ³	37.26	39.26	38.59	36.26	35.26	36.06	38.55	37.46	110/Day
4.	Particulate matter (less than 2.5 µm)	µg/m ³	27.36	28.02	27.55	25.31	26.36	27.45	27.61	28.18	60/Day
5.	Ozone (O ₃)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	110/8*Hours
6.	Lead (Pb)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m ³	0.031	0.033	0.024	0.023	0.020	0.022	0.027	0.024	02/8*Hours
8.	Ammonia (NH ₃)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C ₆ H ₆)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
11	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11	Arsenic (As)	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12	Nickel (Ni)	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13	Mercury (Hg)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified

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TEST REPORT

Company Name	: Rosa Power Supply Co. Ltd.	Date of Issue	: 05/04/2016
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.	: AEL/AL/2016/219-8	Sample Bottle	: Plastic packing
Dispatch No.	: DES/AEL/TR-1/2016/	Sample Location	: Barakatpur
Sample Collected by	: AEL Staff		

TEST RESULT

S. No	Parameters	Unit	02.03.16	05.03.16	09.03.16	12.03.16	16.03.16	19.03.16	23.03.16	26.03.16	Standards
1.	Sulphur Dioxide (SO ₂)	µg/m ³	14.26	15.28	15.02	14.60	13.64	15.30	14.88	15.38	80/Day
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	11.32	12.34	12.06	11.92	10.24	12.34	12.25	12.64	80/Day
3.	Particulate matter (less than 10 µm)	µg/m ³	33.26	32.57	32.11	34.06	33.28	34.11	33.96	32.65	110/Day
4.	Particulate matter (less than 2.5 µm)	µg/m ³	25.33	26.75	24.21	23.71	24.09	25.07	25.18	26.14	60/Day
5.	Ozone (O ₃)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	110/8*Hours
6.	Lead (Pb)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.0/Day
7.	Carbon Mono Oxide (CO)	mg/m ³	0.022	0.027	0.025	0.026	0.023	0.022	0.024	0.029	02/8*Hours
8.	Ammonia (NH ₃)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	400/Day
9.	Benzene (C ₆ H ₆)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	05/Annual
11	Benzo(a)Pyrene(BaP) Particulate Phase only	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01/Annual
11	Arsenic (As)	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	06/Annual
12	Nickel (Ni)	ng/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20/Annual
13	Mercury (Hg)	µg/m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Not Specified


 (Authorized signature)