

Rosa Power Supply Co Ltd, Vill. Chaudhera,Rosa, Sahajahanpur.  
Capacity: 2 X300 MW- Stage II

**Clearance Letter No – F.No. J-13011-73-2007-IA.II(T) Dated 20.07.2009**

Sr. No.	Stipulated Clearance Conditions	Compliance status
3. (i)	No additional land in excess of 210 ha for stage II of the project and 610 ha for both stage -I & II shall be acquired for any activity/ facility of this project	The total land available for stage – I & stage - II is 610 ha.
3.(ii)	No facility related to the project shall remain within 500 meter distance from State Highway No. 25 except water reservoir which should be shifted beyond 500 meters from SH-25 within three years from the date of issue of EC letter for the ROSA project	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.
3.(iii)	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5% and 40.5% respectively at any given time. In case of variation in coal quality at the time of issue of LOA, a fresh reference shall be made to MoEF for suitable amendments to environmental clearance conditions wherever necessary	Copy of Test Report of Coal sample enclosed as Annexure_VII of St_1 Compliance.
3. (iv)	A bi-flue stack of 275 m height shall be provided with continuous online monitoring equipments for SO <sub>x</sub> , NO <sub>x</sub> and Particulate matter. Exit velocity of flue gases shall not be less than 25 m/ sec. Mercury emissions from stack may also be monitored on quarterly basis.	Continuous online monitoring system of CODEL, UK make has been installed for stack emission. Stack Emission Monitoring Report is attached as <b>Annexure-II</b> .
3. (v)	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> .	Complying High efficiency Electrostatic Precipitators (ESPs) has been installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> .
3. (vi)	Space provision shall be kept for retrofitting of FGD, if required at a later date	Complied Space provision for FGD has been incorporated in to the layout.
3. (vii)	Adequate dust extraction system such as cyclones / bag filters and water spray system in dusty areas such as in coal handling and ash handling points,	Measures such as Bag filters, Dust Extraction system, Water Sprinkling are in use and working efficiently to control fugitive emission in CHP & AHP Area

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	transfer areas and other vulnerable dusty areas shall be provided	
3.(viii)	<p>Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured from 3rd year onwards</p> <p>Unutilized ash shall be disposed off in the ash pond in the form of High Concentration Slurry (60% ash and 40% water) Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also In the effluents emanating from the existing ash pond. No ash should be utilized in low lying area as micro nutrients for agriculture and mine filling</p>	<p>Noted for compliance.</p> <p>EAC in meeting dated 12.09.2011, agreed and allow to have conventional slurry disposal system in place off HCSD for Stage-II similar to that of Stage-I.</p>
3. (ix)	Closed cycle cooling system With Induced Draft cooling towers shall be provided. COC of at least 4 shall be adopted and the effluents shall be treated as per the prescribed norms	Cooling water system has been designed for 4.0 Cycle of concentration. The effluent shall be treated as per the prescribed norms.
3. (x)	No ground water should be extracted for project work at any stage	For project work , no ground water was extracted during the construction.
3. (xi)	<p>The treated effluents conforming to the prescribed standards shall be re-circulated and re-used within the plant</p> <p>There shall be no discharge outside the plant boundary except during monsoon</p> <p>Arrangements shall be made such that effluents and storm water do not get mixed</p>	<p>A different treatment facility has been provided for both domestic sewage as well as industrial discharge.</p> <p>The effluent and storm water is not allowed to mix.</p>
3.(xii)	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt / plantation.	A sewage treatment plant of 10KL has been installed and treated water is used for raising greenbelt/ plantation.
3. (xiii)	Rainwater harvesting should be adopted. Central Groundwater Authority / Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished	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 requirement vide letter No.325/CGWA/RWH/OTH/08-32 Dated 29/01/2008.
3.(xiv)	Adequate safety measures shall be provided in the plant area to check minimize spontaneous fires in coal yard, especially during summer season	Compaction of coal pile is maintained regularly at coal stack yard. Fire fighting arrangement being provided along coal pile area.
3. (xv)	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation	The disaster management plan already submitted along with EIA/EMP reports to MOEF

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	<p>with Deptt. of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%</p> <p>Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of Oil</p>	<p>&amp; which is duly approved and accordingly Environmental Clearance is granted.</p>
3.(xvi)	<p>Regular monitoring of ground water in and around the ash pond area including heavy metals (Hg, Cr, As, Pb) shall be carried out, records maintained and six monthly reports shall be furnished to the Regional Office of this Ministry.</p> <p>The data so obtained should be compared with the baseline data so as to ensure that the groundwater quality is not adversely affected due to the project.</p>	<p>Refer <b>Annexure –III</b> of <b>St_1</b> Compliance.</p>
3. (xvii)	<p>A green belt of adequate width and density shall be developed around the plant periphery covering 30% of total area preferably with native plant species</p>	<p>Green belt has been carried out over an area of 196 Ha including township for St_1 &amp; St_2. A total of 449218 trees / shrubs are already planted till date.</p> <p>Local species are chosen for developing greenbelt.</p> <p>Refer <b>Annexure-IV</b> of <b>St_1</b> for status of plantation for both stages.</p>
3. (xviii)	<p>Corpus fund of Rs. 24 crore shall be earmarked for CSR activities</p>	<p>Noted for compliance.</p>
3. (ixx)	<p>First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase</p>	<p>First aid, ambulance &amp; sanitation facility were provided by contractors at construction site during construction phase</p>
3. (xx)	<p>Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA.</p> <p>For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas</p>	<p>Noise Monitoring Report attached as <b>Annexure_V</b> of <b>St_1</b>.</p> <p>Complied</p>
3. (xxi)	<p>Regular monitoring of ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, RSPM and Hg shall be carried out in the impact zone and records maintained.</p> <p>If at any stage these levels are found to exceed the prescribed limits, necessary</p>	<p>The Ambient air quality monitoring is being carried out regularly. Refer <b>Annexure-VI</b> of <b>St-1</b>.</p>

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	<p>control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB.</p> <p>Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.</p>	
3.(xxii)	<p>Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>For construction worker housing and all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care etc. were provided.</p>
3. (xxiii)	<p>The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter 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>	<p>Photocopies of the newspapers advertisements, has already been submitted to your good office.</p>
3. (xxiv)	<p>A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent</p>	<p>Noted and complied</p>
3. (xxv)	<p>A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards</p>	<p>A separate Environment Health and safety (EHS) cell has been formed from different discipline for implementation &amp; monitoring of the stipulated environmental safeguards.</p>
3. (xxvi)	<p>The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update</p>	<p>Noted for compliance.</p> <ul style="list-style-type: none"> <li>• EC is uploaded at site.</li> <li>• On line display of Stack Emission is made available near main gate.</li> </ul>

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	the same periodically. It shall simultaneously be sent to the Regional Office of MOEF of the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> and NO <sub>x</sub> (ambient levels as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain	<ul style="list-style-type: none"> <li>Online Continuous Ambient Monitoring Stations has been installed.</li> </ul>
3. (xxvii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB	Noted and complied.
3. (xxviii)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986, as amended subsequent years shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MOEF by e-mail	Environmental Statement of FY 2014-15 has already been submitted to your good office vide letter no. <a href="#">RPSCL/Env/Statement/05/2014/30</a> dated 15/5/2015.
3. (ixxx)	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 along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will upload the compliance status in their website and up-date the same at least six monthly basis from time to time. Criteria pollutants levels (Stack & ambient levels of NO <sub>x</sub> ) will be displayed at the main gate of the power plant	Noted for compliance.
3. (xxx)	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The	Noted for compliance. Rs 169.25 crores are allocated for implementation of Environmental protection measures.

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	funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should be reported to the Ministry.	
3. (xxxii)	Copy of R&R Plan should be submitted within six months from the date of environmental clearance letter	R&R Plan has already been submitted to your good office dated on 9 <sup>th</sup> June, 2009.
3. (xxxiii)	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant	Complied.
3.(xxxiii)	Full cooperation shall 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
4.	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. MOEF may impose additional environmental conditions or modify the existing ones, if necessary	Noted.
5.	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant	The Stage II of the plant is already in operation phase since 31/3/2012
6.	In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition (s) imposed and to add additional environmental protection measures required, if any	Noted for compliance.
7.	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1984, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments	Noted & adhered.
8.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if	Noted for compliance.

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	preferred, within 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997	
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