

**Compliances of conditions imposed in the Environmental Clearance (1200TPD) issued by
MOEF vide letter No. J11011/24/2006-IA II(I) Dated: 09.08.07**

| Sl. No | Conditions | Compliance Status |
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| A | Specific Conditions: | |
| 1 | The gaseous emission from various process units shall conform to the standards prescribed by the concerned authorities from time to time. The TNPCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emission levels should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. | <ul style="list-style-type: none"> All stack emissions & ambient air values are analyzed by Tamil Nadu Pollution Control Board (TNPCB) & Vedanta Limited regularly. Reports on water quality, stack emission & ambient air quality are submitted to TNPCB on monthly basis. Trips & Interlocks system along with online analyser is available in all process stacks and online stack analyzers are connected to Care Air Centre, TNPCB & CPCB server. |
| 2 | Electrostatic precipitators (ESP) and scrubbers shall be provided to control gaseous emissions. All the scrubbed SO ₂ shall be sent to ETP. On-line analyzers and stack emission monitoring equipments for continuous monitoring of SO ₂ , NO _x , and SPM shall be installed and all the pollution control measures shall be inter-locked. The emissions shall conform to the standards prescribed by the Ministry/CPCB/TNPCB which ever is more stringent and data collected shall be submitted regularly to the Ministry / Regional Office at Bangalore and TNPCB. | <ul style="list-style-type: none"> ESPs and Scrubbers are being operated on a continuous basis and the scrubber effluents are being sent to Effluent Treatment Plant (ETP) for treatment. On-line continuous SO₂ analyzers are installed in all process stacks with inter-lock provision for tripping incase the emissions exceeds the prescribed limit. In addition, online continuous SPM analysers are installed in Smelter process stacks. On regular basis, the unit is submitting Environmental analysis reports to MoEF&CC / TNPCB. Further, all the process stacks have been connected to Care Air Centre, TNPCB, Chennai and CPCB for real time monitoring. |
| 3 | All the recommendations made in the Charter for Corporate Responsibility for Environment Protection (CREP) shall be strictly followed. As per the action plan submitted to the ministry, SO ₂ emission limit shall be less than 1 Kg/ton of H ₂ SO ₄ produced and acid mist limit of 50 mg/Nm ³ shall be achieved. | <ul style="list-style-type: none"> All the recommendations of CREP are fully complied with. Tail gas scrubber are installed in both Sulphuric Acid Plants to scrub off residual gases and brought down the level of SO₂ less than 1 kg/T of sulphuric acid produced and acid mist less than 50 mg/Nm³. The unit has complied with the emission norms. |
| 4 | Fugitive dust emissions in the handling area and at various transfer points shall be controlled by providing scrubbers, dust suppression system and ventilation system in work environment and monitored for prevailing contaminants regularly. | <p>Dust Control Measures at Material Handling area:</p> <ul style="list-style-type: none"> All material handling is through mechanized, covered conveyors. Material unloading is being done in covered sheds. Bag filters are installed at Rock Phosphate handling area. Vacuum suction facility and auto-sampler provided for concentrate tippers. The unit has installed bag house prior to ISA Fugitive Gas De-sulphurisation System (FGDS) and converter secondary gas scrubbers. |

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| 5 | ETP cake and scrubber cake shall be stored in secured landfill (SLF) at the site till TSDF in Tamil Nadu is functional. The location and design of the landfill site shall be approved by the TNPCB as per Hazardous Wastes (Management and Handling Rules, 2003. The ground water quality around the landfill site shall be monitored and data submitted to the ministry/TNPCB. ESP dust and lime grit shall be recycled in the smelter. Slag shall be sold to the cement plants or used for shot blasts applications. Gypsum shall be sold to cement plants and other users. All the used oil and batteries shall be sold to the authorized recyclers / reprocessors. | <ul style="list-style-type: none"> • ETP cake is being stored in Secured Landfill (SLF) and the design of SLF is as per CPCB guidelines. Scrubber cake is being utilized for sustainable applications. • Ground water sample around SLF is being monitored periodically by TNPCB and Vedanta Ltd. • ESP Dust is recycled back to smelter. • Lime grit is being recycled partially into ISA furnace and excess quantity is being sold to external parties. • Slag is currently being disposed for abrasives applications, land filling, road, cement and concrete applications. • Gypsum is being sold to cement plants and other users and the despatch rate is more than the generation quantity. • Used oil is being recycled back in smelter for combustion. • Used batteries are being taken by the original suppliers on the basis of buy-back agreement and partially auctioned to authorized recyclers. |
| 6 | Total water requirement shall not exceed 10,050 m ³ /day as per permission accorded by the T.N. Water and Drainage Department. Prior permission of competent authority should be obtained for drawal of the water and safeguards suggested by them shall be implemented. All the treated waste water shall be reused in the smelter plant and 'Zero' discharge shall be adopted. No wastewater shall be disposed off outside the premises. Domestic effluent shall be treated in septic tank followed by soak pit. | <ul style="list-style-type: none"> • Total water consumed is around 9,600 m³/day, which is well within 10,050 m³/day limit. • Entire Treated water is being reused in process. • 'Zero Liquid Discharge' is being maintained in the plant since inception. • Domestic effluents are treated in Sewage Treatment Plant (STP) and sewage treated water is being used for greenbelt development within plant premises. |
| 7 | Green belt of adequate width and density around the project site shall be developed in 43 ha. out of total 172.17 ha. As per CPCB guidelines in consultation with the DFO | <ul style="list-style-type: none"> • Greenbelt developed in 43 Ha area. • Green belt coverage is developed in consultation with DFO / NEERI. |
| 8 | All the environmental conditions stipulated by the ministry for the 5x130 MW captive power plant vide letter no.J-11011/82/2003-IAII (I) dated 22 nd September, 2004 shall be implemented. | <ul style="list-style-type: none"> • The unit has not received any environment clearance for setting up 5x130 MW CPP by the Ministry and had already requested exemption for this condition vide our letter SIIL/HSE/MOEF/07/04 dated 21.08.07 to the ministry. |
| 9 | Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act | <ul style="list-style-type: none"> • Pre-employment medical check-up is an essential pre-requisite for all new-entrants. • Annual medical check-up is being done to all workers regularly and records are maintained as per Factories Act. • Annual medical check-up tests include personnel well-screening tests, Noise Induced hearing loss test, Lung Function tests and X-Ray. • Half yearly medical check-up is conducted for personnel working in hazardous areas and records maintained as per Factories Act. |
| 10 | The company shall develop rain water structures to harvest the run off water for recharge of ground water in consultation with the Central Ground Water Authority /Board | <ul style="list-style-type: none"> • Rain water is being collected in rain water catchment facilities and used for process instead of raw water. |

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| B | General Conditions: | |
| 1 | The project authorities must strictly adhere to the stipulations made by the Tamil Nadu Pollution Control Board (TNPCB) and the State Government | <ul style="list-style-type: none"> The stipulations laid down by the TNPCB with respect to Air, Water, Solid Waste are being strictly adhered by Vedanta Limited. Monitoring reports are being sent on monthly, quarterly basis to both TNPCB and MOEF&CC, RO. |
| 2 | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests | <ul style="list-style-type: none"> No activity will be carried out without prior approval of the MOEF&CC. |
| 3 | Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the TNPCB. Regular monitoring shall be carried out for relevant parameters. | <ul style="list-style-type: none"> The unit is regularly monitoring the influent and treated water quality in our Environmental Laboratory so as to have control over the process. The influent and treated water samples are being collected and analysed for critical parameters on a monthly basis by TNPCB. |
| 4 | The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report. | <ul style="list-style-type: none"> All the recommended environmental protection measures and safeguards in EIA report are implemented. |
| 5 | As proposed in EIA/EMP, Rs. 31.00 Crores earmarked towards environmental protection measures shall be exclusively used to implement the conditions stipulated by the Ministry of Environment and Forests and State Government. A time bound action plan along with the implementation schedule to comply with all the conditions stipulated herein shall be submitted to the Ministry's Regional Office at Bangalore. The funds so provided shall not be diverted for any other purpose | <ul style="list-style-type: none"> The fund allocated for environmental protection measures used exclusively to implement the conditions. |
| 6 | The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bangalore / TNPCB / CPCB. A six monthly compliance status report shall be submitted to the monitoring agencies. | <ul style="list-style-type: none"> Report is being submitted as per stipulated frequency i.e. once in six months. |
| 7 | 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 informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the TNPCB and may also be seen at Website of the Ministry and Forests at http://envfor.nic.in . The advertisement shall be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's Regional Office at Bangalore | <ul style="list-style-type: none"> The accorded MoEF Environmental Clearance was published in local Newspapers. |
| 8 | The Project Authorities shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work | <ul style="list-style-type: none"> Communicated to authorities. |