

Registered AD

HZL/CLZS/ENV/33/2020-21/

Date: 29.05.2021

To,

Shri V K Singh, IFS  
Additional Principal Chief conservator of forest (C)  
Ministry of Environment and Forests and climate change  
Regional officer (CZ) Kendiya Bhawan,  
5 Floor, Sector H – Aliganj,  
LUCKNOW – 226024,

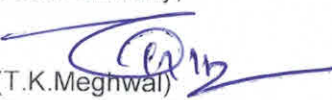
Subject: Six monthly Environmental compliance report.

Ref: Environmental Clearance Letter No. J-11011/17//2005-IAII(I), Date 03.08.2005

Sir,

Please find enclosed the six-monthly compliance report with reference to above Environmental Clearances of Ausmelt Lead Plant CLZS for Period 01.10.2020 to 31.03.2021 With all the enclosures.

Thanking you,  
Yours faithfully,



(T.K. Meghwal)  
Sr. Manager (Env)  
Chandaria Lead Zinc Smelter

Encl.: Annexures

**Hindustan Zinc Limited**

Sensitivity: Internal (C3)

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CIN : L27204RJ1966PLC001208

## AUSMELT LEAD PLANT

**Environment Compliance Report of Chanderiya Lead Zinc Smelter, Chittorgarh with reference to Environmental Clearance letter No. (No. J-11011/17/2005-IAII(I) dtd. 03/08/05)**

CONDITION		STATUS
<b>A. SPECIFIC CONDITIONS</b>		
i.	The gaseous emission from various process units shall confirm to the standard prescribed by the concerned authority from time to time. The state Board 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 level should go beyond the prescribed standard in the event of failure of any pollution control system adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desire efficiency.	<p>(1) The gaseous emission from various process units is being conform to the standard prescribed by the concerned authority from time to time.</p> <p>(2) At no time the emission level is higher than the prescribed standard in the event of failure of any pollution control system adopted by the unit, the respective unit is not restarted until the control measures are rectified to achieve the desire efficiency.</p>
ii.	As reflected in the EIA /EMP, exiting DCDA plant for sulphuric acid plant recovery from SO <sub>2</sub> shall be upgraded by use of high active catalyst and high efficiency plate heat exchangers. The company shall ensure that SO <sub>2</sub> emission from the lead smelter plant are taken to existing Sulphuric acid plant properly and converted to H <sub>2</sub> SO <sub>4</sub> . The stack from the sulphuric acid plant shall be provided with online stack emission monitoring equipment for continuous monitoring of SO <sub>2</sub> . As per recommendation made in CREP for environment protection SO <sub>2</sub> emission limit shall be controlled less than 2 kg/t of H <sub>2</sub> SO <sub>4</sub> produced and Acid mist limit of 50 mg/NM <sub>3</sub> shall be achieved by 31 Dec.2006.	<p>(1) The SO<sub>2</sub> from Ausmelt going to pyro acid plant mainly. Sometimes it goes to hydro acid plant.</p> <p>(2) In Pyro Plant: Already installed tail gas treatment plant.</p> <ol style="list-style-type: none"> <li>1. Complying the condition of EC.</li> <li>2. Acid plant is followed by Tail gas Treatment plant for the always below SO<sub>2</sub> &amp; Mist as per norms.</li> <li>3. Online Analyzer is working properly and connected to SPCB/CPCB.</li> <li>4. Using of Very high power catalyst for increase efficiency of conversion. Basically, cesium based V<sub>2</sub>O<sub>5</sub> catalyst is being use in Acid Plant.</li> </ol> <p><b>Analysis report of Acid Plant is attached as Annexure VII</b></p>
iii.	The company shall install continuous air quality monitoring station. one CAAQM shall be set up at Chittorgarh Fort to assess the impact of the lead smelter on the Fort. Data monitored shall be submitted to MOEF and CPCB/PCB once in six month.	<p>(1) The company has installed continuous air quality monitoring stations.</p> <p>(2) One CAAQM has been set up at Chittorgarh Fort to assess the impact of the lead smelter on the Fort.</p> <p>(3) Data monitored is been submitted to MOEF and CPCB/PCB once in six month.</p> <p><b>Analysis report of CAAQM Station is attached as Annexure X</b></p>
iv.	Fugitive emissions, acid mist vapours, fumes and SO <sub>2</sub> shall be controlled and work environment monitored for prevailing contaminants regularly. Fugitive dust emissions in the lead concentrate handling area and at various transfer points shall be minimized by provision of dust suppression system. The trucks carrying concentrate shall be fully covered. The Company shall improve overall house keeping by asphaltting the internal roads and	<p>(1) In order to minimize fugitive emissions Lead Concentrate containing 8-10% moisture is being handled.</p> <p>(2) Provision of water sprinkling at Pb concentrate stock yard has been provided and working satisfactorily.</p> <p>(3) Dust control system has been provided at material transfer points.</p> <p>(4) Mobile Vacuum dust sweeping system on</p>



	to reduce the generation of fugitive dust from vehicle movements.	<p>industrial roads and vacuum dust cleaning system for plant area are exist at smelter to control airborne dust due to the vehicles movement.</p> <p>(5 )Regular road washing is being done on industrial roads.</p> <p>(6)Truck &amp; truck tyre washing system has been provided and working satisfactorily.</p> <p>(7) All roads are made pucca with cement concrete.</p> <p><b>Photographs for Road Vacuum Sweeper is attached as Annexure XIV</b></p>
v.	The company shall install fume extractors and bag filters to control the emission from all melting and casting units. The emission shall confirm to the prescribed standards of 50 mg/Nm <sup>3</sup> . The particulate emission from captive power plant should be controlled by installation of ESP and controlled with in the stipulated limits of 50 mg/NM <sup>3</sup> .The low NOX burners shall be installed to control the NOX emission	All pollution control equipment installed properly and operated regularly . Monitoring of stacks are regularly carried out by our team.
vi.	As reflected in the EIA /Environment Management Plan, discharge of process effluent shall not exceed 19 m <sup>3</sup> /hr. The treated effluent shall conform to the prescribed standard and recycled to maintain zero discharge ,Reveres Osmosis plant shall be installed for desalination and reuse to effluent to achieve zero discharge .The rejects from RO Plant shall be evaporated in a solar evaporation pond to be constructed with in smelter premises .	<p>1) Process effluent is well in prescribed limits both qualitatively and quantitatively,</p> <p>2) Zero discharge is being maintained from the premises of the industry.</p> <p>3) Existing RO plant is being operated in order to maximize recycling of treated effluents. New RO 1250 M<sup>3</sup>/day also commissioned in Sept.2015.</p> <p>4) RO reject is being evaporated at solar evaporation pond through Mist Evaporators / Foggers, MEE is installed to strengthen the ZLD System. .</p>
vii.	The solid waste generated in the form of Slag shall be granulated and sold to cement manufacturing and also for use in road construction.	<p>(1) The slag generated is granulated and disposed at the specific location in the slag storage yard.</p> <p>(2) Slag is being used by Cement Plants &amp; road construction.</p>
viii.	Green belt of adequate width and density in and around the captive power plant shall be developed as per Central pollution Control Board guidelines in 61.12 ha of area in addition to 106ha of existing area already brought under green belt. Around the periphery of plant and township canopy based green belt should be developed.	<p>(1) Green belt of adequate width and density in and around the captive power plant is being developed as per Central pollution Control Board guidelines, in 61.12 ha of area in addition to 106 ha of existing area already brought under green belt.</p> <p>(2) Canopy based greenbelt is already been developed around periphery of plant and township .</p> <p>(3) Presently more than 33% of the Plant area developed as green belt.</p> <p><b>Details of green belt as attached as Annexure XIII along with photographs.</b></p>
<b>B. GENERAL CONDITIONS:</b>		
i.	The project authorities must strictly adhere to the stipulations made by the Rajasthan State Pollution Control Board and the State Government.	Site is strictly following the stipulations made by the Rajasthan State Pollution Control Board and the State Government.
ii.	No expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	No expansion or modifications in the plant is being carried out without prior approval of the Ministry of Environment and Forests.
iii.	Adequate number of ambient air quality-monitoring	(1) Adequate number of ambient air quality-



	stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the Rajasthan State Pollution Control Board. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Lucknow and the State Pollution Control Board/Central Pollution Control Board once in six months.	monitoring stations already established in the downward direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the Rajasthan State Pollution Control Board.  (2) Data on ambient air quality and stack emission is being regularly submitted to this Ministry including its Regional Office at Lucknow and the State Pollution Control Board/Central Pollution Control Board once in six months.
iv.	Industrial waste water should be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December, 1993 or as amended form time to time. The treated wastewater should be recycled in the plant as well as utilization for plantation purposes.	(1) Industrial waste water is being properly collected and treated is in ETP to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December, 1993 or as amended form time to time.  (2) The treated wastewater is recycled in the plant as well as utilization for plant.
v.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules 2003. Authorization from the State Pollution Control Board must be obtained for collection, storage, treatment and disposal of hazardous wastes.	(1) CLZS strictly complied with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules 2003.  (2) Authorization from the State Pollution Control Board is being obtained for collection, storage, treatment and disposal of hazardous wastes.
vi.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including Silencers, enclosures etc on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (nighttime).	The overall noise levels in and around the plant area always below within the standards (85 dBA) by providing noise control measures including Silencers, enclosures etc on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (nighttime).  <b>Analysis report of Noise Station is attached as Annexure IX</b>
vii.	Occupational Health Surveillance of the workers Shall be done on a regular basis and records maintained as per the Factories Act.	Occupational Health Surveillance of the workers Shall be done on a regular basis and records maintained as per the Factories Act.
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP/risk analysis and DMP report.	All the pollution measures are in place along with the proper enforcement of instruments/PPEs
ix.	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be directed for any other purposes.	The Plant authorities provided adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided is not directed for any other purposes.
x.	The Regional Office of this Ministry at Lucknow/Central Pollution Control Board/State Pollution control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	The Regional Office of this Ministry at Lucknow/Central Pollution Control Board/State Pollution control Board is being regularly monitored the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation is being submitted to Regional

		SPCB regularly.
xi.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the 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> . This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.	The Plant was already informed the public that the project is the accorded environmental clearance by the Ministry and copies of the 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> . Our company advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one is being in the vernacular language of the locality concerned and a copy of the same was forwarded to the Regional Office.
xii.	The project Authority shall inform the RO as well as MOEF the date of financial closures and final approval of the project by the concerned authority and the date of commencing and land development work.	Agreed and informed to RO & MoEF for all the details of plant activities.