



vedanta
transforming elements



Registered AD

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

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,

Sub : Six monthly Environmental compliance report.

Ref : Environmental Clearance Letter No. J-11013/29/92-EI, DATED 03.06.83
Environmental Clearance Letter No. 3/29/79/HCT/ENV. DATED 25.08.80

Sir,

Please find enclosed herewith the six monthly compliance report with reference to above Environmental Clearances for our Pyro Plant and Gosunda Dam CLZS location for period 01.10.2020 to 31.03.2021 with all the enclosures as annexures.

Thanking you,

Yours faithfully,


(T K MEGHWAL)
Sr. Manager (Environment)
Chandaria Lead Zinc Smelter

Encl.: Annexures

Hindustan Zinc Limited

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Sensitivity: Internal (C3)

SIX MONTHLY POINT WISE COMPLIANCE REPORT FOR GOSUNDA DAM
ENVIRONMENTAL CLEARANCE LETTER No. 3/29/79/HTC/ENV DATED 25.08.80

- 1) Majority of labours engaged by the contractor during the construction phase of dam were locals with residential dwellings in nearby villages, hence there was no requirement of fuel wood supply to villages. No trees were felling in the area.
- 2) The excavated mud of the main dam has been utilized in the construction of rock fill dam at the left flank. The soil for the construction of earthen dam has been taken from various borrow area to a maximum depth of uniformly consequently, there are no holes, irregular surface left in the borrow areas. Due to the almost level surface left, no restoration is required.
- 3) General health condition of the persons in the rehabilitation colonies are very good.
- 4) No deforestation or clear felling was resort to for any construction activity associated with the dam construction.
- 5) Environmental plantation of Gosunda dam area has been taken up in right earnest. Plantation of 10,000 numbers of saplings has been done and its subsequent maintenance in all respect. The species chosen are all locally endemic species and are known to register fast growth and good canopy cover.

Note:-The height of Gosunda Dam has been raised from 420 MRL to 422.5 MRL.

- a. Forest clearance for storage of water up to 422.5 MRL
- b. Plantation coming under submergence between 420 to 422.5 MRL shall be replaced by Forest Department.
- c. No village is coming under submergence.

PYRO PLANT

Environment Compliance Report of Chanderiya Lead Zinc Smelter, Chittorgarh with reference to Environmental Clearance letter No. :- J-11013\29\92-EI dated 3.6.83.

S.N.	CONDITION	COMPLIANCE
1	Transportation of concentrates from mine to the Smelter site should be done in containers or closed trucks to minimize/avoid the entry of metal into environment through spillage, carry over, pilferage etc. trucks used should be washed & cleaned at the centralized place HZL should look in this aspect make proper arrangements. This washing should be properly treated & disposed.	<p>(1) Transportation of concentrate from mine is done in covered dampers to minimize any spillage, carry over pilferage etc.</p> <p>(2) The concentrate contains 8% to 10% moisture</p> <p>(3) After unloading, the trucks are washed at the truck washing facility.</p> <p>(4) The wash water is being treated in ETP followed by RO & solids in slurry form are being recycled to the sinter plant and ETP cake is being disposed in SLF.</p> <p>(5) Proper care is being taken during transportation.</p>
2	Spillage & fugitive dust emission at loading and unloading points should be kept to minimum & for this purpose water spray should be adopted.	<p>(1) Moisture in concentrate received at site is maintained at approximately 8%.</p> <p>(2) This minimizes fugitive emission at unloading point & also at the concentrate handling area in RMH.</p> <p>(3) Water sprinkler and vacuum road sweeper are being used at site to reduce & mitigate fugitive dust emission if any at site.</p> <p>(4) We are complying with all applicable norms of fugitive emission.</p>
3	The levels of lead, zinc, and cadmium in the working environment should always be kept within stipulated/well below the standards laid down. If the standards in our country are not available. Standards laid down in US/Canada should be adopted.	<p>(1) Levels of lead and Zinc in the working Environment are within the stipulated limits.</p> <p>(2) Cadmium levels in the working environment have always been found below detection limits.</p> <p>(3) All norms of metal value in the working environment is being followed at site.</p> <p>See Annexure I – Work Environment</p>
4	The local ventilation in all workplaces should be designed in such a way to have a suitable draft circulation.	<p>(1) The stipulated conditions have been taken care of in designing and adequate ventilation system has been provided in work place.</p> <p>2) Suitable draft circulation is being maintained.</p>
5	The height & design of the stacks should be such that ground level concentration of the gaseous pollutant should be within the stipulated standards of state board.	<p>(1) The height & design of the stacks are adequate.</p> <p>(2) Ground level concentration of the gaseous pollutant is maintained within the standards issued by State Pollution Control Board.</p>
6	Location & height of the stack on buildings should be such that the turbulence will be on beside of the building. The total meteorological condition should be taken	<p>(1) In designing the location & height of stack, CPCB guidelines have been followed.</p> <p>(2) During project and after total meteorological</p>

	into consideration for this purpose.	condition is being taken into consideration for this purpose.
7	The HZL authorities should make arrangement for regular monitoring of combustion gases, particulate matter & concentration of heavy metals in the particulate size, distribution & deposition of particles on similar type of plants (e.g. Visakhapatnam) in consultation with expert in this field to have an idea & base information. Based on this suitable measure can be adopted & reports should be sent to State/Central Board/ Deptt Of Environment.	<p>(1) HZL authorities have arranged for regular monitoring of combustion gases, particulate matter & concentration of heavy metals in the particulate size, distribution & deposition of particles on similar type of plants (e.g. Visakhapatnam) in consultation with expert in this field to have an idea & base information .</p> <p>(2) Based on these suitable measures is been adopted & reports is being regularly sent to State/Central Board/ Deptt Of Environment.</p> <p>Annexure – IV Stack Monitoring</p>
8	The liquid effluent emanating from various process operations should be recycled to the maximum possible extent. The effluent should be subjected to rigorous physico-chemical or other suitable treatment method to bring down the pollutant concentration below the standards laid down by State/Central Board.	<p>(1)The daily Average water consumption is approx. 5000 M³/day</p> <p>(2)All effluent treated in ETP followed by RO and MEE.</p> <p>(3)Zero discharge is being effectively maintained at our plant</p> <p>Annexure – V Treated water quality analysis</p>
9	The waste treatment plant operation should be watched at Senior Management level & regular reports on its performance and effluents quality should be submitted to state/central authorities.	<p>(1) Regular reports of the analysis of final treated water are submitted to RPCB, Jaipur on quarterly basis.</p> <p>(2) Regular operation is being monitored by Senior or Management officials.</p>
10	The two sludge lagoon should be made imperious to avoid pollution of ground water.	Three nos. of concrete lagoons with lining have been constructed as per condition.
11	Water quality of river and ground water should be collected at regular intervals to form as the base line data wells in the near by area should be monitored from now onwards & later also.	Water quality of upstream & down stream of Berach river & the sample of wells water from nearby village area is been regularly monitored.
12	The effluent should be used on land to the maximum extent for social forestry purpose & should be a model for others in that area. HZL authorities should explore the possibility of adding treated wastes from town ship to factory wastes to enhance their utility.	<p>Treated water is recycled in the process. Every year new plantation work is taken up, as a result well grown up trees comprise the green belt on both side of the plant.</p> <p>Presently 124 Ha. of green area is been developed inside CLZS Complex which is more than 33% of the Plant area.</p>
13	State authorities be requested to plant trees in the vicinity & surrounding the monuments	Free plant saplings are distributed in nearby villages every year and also planted sapling under

	to enhance the protection & to reduce the wind / sand erosion of monuments.	our CSR activity like Punchfal scheme.
14	Rigorous & stringent measure for maintaining the various process & control equipment in the plant at highest possible standards should be adopted by HZL. If there is a failure of any control equipment these units should not be operated except emergencies.	Stringent measures are taken to keep all the pollution control equipment in good condition. In monthly & annual shutdowns, through checking of pollution control system.
15	An Environmental Management plan stipulating various condition & requirement of operation, maintenance & monitoring should be drawn up. Various levels in the Organisation(s) should be trained to adopt the plans.	EIA study & EMP for CLZS have been prepared. A full fledged Environment Lab exist at site to meet the process and statutory norms. Environmental training is also imparted, and Site Environment Cell is well equipped and trained to adopt the Environment Management Plans at site.
16	Contingency & disaster plans should be drafted for adoption.	Disaster management plan being updated suitably in consultation with Inspector of Factories & Boilers, Jaipur, for the entire location. Site level ERCP is also available at site.
17	Suitable Environmental management & monitoring cell should be created a Sr. Environmental Manager with suitably qualified personnel of various disciplines to undertake the various functions. They should be directly reporting to the head of the Organization.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel already set up under the control of Sr Manager, he will directly to the head of the organization.
18	Suitable programs should be organized within the Organization to apprise workers, staff and people in the surroundings regarding value and necessity of good housekeeping and proper environmental management for the welfare of all.	Regular training program are conducted for employees, these program highlight the importance of clean environment and related issues of strict maintaining of process parameters, equipment condition etc. World Environment Day & Van Mahotsav are celebrated every year to create awareness about clean environment & various competitions are also organized.