

राज्य स्तर पर्यावरण समाघात निर्धारण
प्राधिकरण, उत्तराखण्ड, अजबपुर कलां,
मोथरोवाला रोड़, (नियर पी0एन0बी0),
देहरादून- 248001
(पर्यावरण, वन एवं जलवायु परिवर्तन
मंत्रालय, भारत सरकार, नई दिल्ली द्वारा
गठित)
दूरभाष: 0135-2678576
ईमेल: seiaa.seac.uk@gmail.com



State Level Environment Impact
Assessment Authority, Ajabpur Kala,
Mothorowala Road, (Near P.N.B)
Dehradun- 2480001
(Constituted by Ministry of
Environment, Forests and Climate
Change Government of India.)
Phone No- 0135-2678576
Email- seiaa.seac.uk@gmail.com

E.C.No- / 0 -9(10)/2018

Dated- 08-02-2019

To,

M/s Hindustan Zinc limited,
Pantnagar Silver Refinery plant at Plot No 2 & 3, Sector 14, IIE,
(SIDCUL), Pantnagar, District - Udham Singh Nagar.

Tel.05944-257301, 05944-257304

Email-C.Chandru@vedanta.co.in, Lalan.Deo@vedanta.co.in

Sub: Regarding Environmental Clearance for Proposed Expansion of Refined Silver production from 600 TPA (tons per annum) to 800 TPA (tons per annum) at Plot No 2 & 3, Sector 14, IIE, SIDCUL, Pantnagar.

Sir/Madam,

With reference to the above mentioned online letter the proposal has been examined by SEIAA, Uttarakhand, and the project was submitted vide proposal no SIA/UK/IND/298662018 on dated 15th November, 2018 by project proponent processed in accordance with the EIA notification 2006 and its amendment thereof. The various project details are as follows:-

As per the provision of EIA Notification, 2006, for proposed capacity expansion of Refined Silver production from 600 TPA to 800 TPA (monthly 85 tonnes per month with overall 800 tons per annum) at existing Pantnagar Silver Refinery Plant located in Plot No. 2 & 3, Sector-14, IIE Sidcul, Pantnagar, Udham Singh Nagar of M/s Hindustan Zinc Ltd. The said proposal falls under B category of schedule no. 3(a) of Environmental Impact Assessment Notification-2006 of Ministry of Environment, Forest and Climate Change, Government of India.

The proponent has submitted detailed project related information in Form - 1 & EIA Report. The above proponent has submitted online application to MOEF&CC due to non-existence of SEIAA/SEAC at Uttarakhand. TOR was granted for the project vide Letter No: F.No. IA-J-11011/170/2017-IA.II (I) dated 11.05.2018. The project proponent conducted the baseline studies and prepared a draft EIA reports containing 12 Chapters prepared a draft EIA report for public consultation. Public hearing for the project was successfully completed by Uttarakhand Environment Protection and Pollution Control Board (UEPPCB), on 26th October, 2018. Based on public hearing proceeding, the final EIA report has been prepared and submitted to SEIAA on dated 15.11.2018 for grant of Environment Clearance.

The various other project details are as follows -

- The present 01 Noble Furnace 14 tonne/day, 02 Cupel Furnace (2.5x2tonne/day) will continue. The presently installed 03 Induction Furnaces having capacity of 0.6 tonne/day to 01 tonne/day in 02 Induction Furnaces and 1.5 tonne/day in 01 Induction Furnaces is proposed to be upgraded. In addition to this, 01 Junker Furnace of 4 tonne/day capacity and 01 BBOC Furnace of 4 tonne/day capacity are proposed to be installed. Air Pollution control arrangements will be made in all these furnaces and online monitoring will be done.
- The total area of the industry is 18ha., which is under acquisition of the industry. Hence, there will not be any additional requirement of land for expansion.
- No additional water is required for this expansion. Existing plant water requirement is 325 KL/day which is being met from borewell for which necessary permission has already been obtained from Central Ground Water Board.
- Zero discharge of waste water during operation phase of the plant is maintained. STP of 30 KL capacity is installed for treatment of sewage. Rain water harvesting is in place for the expansion project.
- There will not any additional man power for proposed expansion project and total requirement of energy is 02 MW as existing earlier for which prior approval has already been received

from Uttarakhand Power Corporation Ltd. and no additional energy is required. DG set having 500 KVA capacity is already available for emergency power backup.

- The Hazardous waste generated will be disposed safely as per the existing rules of CPCB/UEPPCB. All the recycle material will be transported to HZL's smelters or other registered recyclers for further recovery of metals. No disposable solid wastes will be produced in the proposed unit.
- 38% green belt all around the premises was developed. Gap filling plantation will be carried out regularly.
- The project proponent has already established an Environmental control cell for environment compliance, monitoring and complete environmental management plan.
- Various CSR activities have been taken up by the Project Proponent in the nearby villages. Sufficient fund is proposed for Community Development for the next three years.
- No national parks / wildlife forests exist in 10 km., radius of the plant, for which Divisional Forest Officer has issued a certificate. However, there will not be any adverse effect on any flora and fauna in nearby Reserve Forest.
- Air Quality was monitored at total 13 places in the industry surrounding in the present report. Surface water monitoring at 8 places and ground water monitoring at 10 places. The results of the monitoring indicate that all the parameters are found within maximum allowable limits. Similarly, noise levels are monitored at 12 locations and they are found as per the stipulated standards.
- This expansion is in line with "Make in India Vision" and will reduce the Silver import of the country and also increase State Government Exchequer.

Based on conditions stipulated by SEAC, SEIAA grants this proposal Environmental Clearance subject to following conditions:-

Pre Operation-

- 1) The project proponent should advertise with basic details at least in two widely circulated local newspapers, within seven (7) days of the receipt of the clearance letter informing that the project has been accorded environmental clearance which is available with the State Environment Impact Assessment Authority, Dehradun and a copy of the same is being sent to the Regional Office of Ministry of Environment and Forest, Government of India located at 25 Subhash road Dehradun.
- 2) A copy of the Environmental Clearance letter shall be sent by the proponent to the concerned Panchyat, if any from whom suggestion/representation, if any, were received while processing the proposal.
- 3) Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site
- 4) There shall be no felling of trees at the construction site and further no damage to the local vegetation shall be done. The installation of equipments/machineries shall be done within the vacant space available in the plant premises

During Operation Phase-

- 1) The Environmental Clearance is being granted for Refined Silver production from 600 TPA to 800 TPA (monthly 85 tonnes per month with overall 800 tons per annum). Apart from 800 TPA Refined Silver (powder/ingot etc) product, Antimony Concentrate(precipitate/salt mix)-1800TPA, Bismuth Concentrate(precipitate/salt mix)-360TPA, Copper Matte- 140TPA, and Oxidation Slag- 1250TPA, Silver Nitrate- 25TPA, Silver anode slime/Silver sand- 10TPA, Lead slag- 450TPA, VRF zinc- 650TPA, VRF zinc dross- 100TPA will also be produced as a by-products. Major raw materials are Anode Slime/Dore Silver/HGM(high grade metal)-4680TPA which will be procured from HZL's smelters and from open market. Other consumables are Coke- 87 TPA, Soda Ash- 250 TPA, Salt peter (Potassium Nitrate)- 89 TPA, Nitric acid- 150 TPA, Ethyne- 10 TPA, Charcoal- 20 TPA, Sodium Chloride- 15 TPA, Borax- 15 TPA, LDO/HSD/LNG/LHSH/PNG/LPG- 4500 TPA, Calcium Fluoride- 40 TPA, Sulphuric Acid- 5 TPA and Lime 5 TPA.
- 2) Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- 3) A copy of the Environmental Clearance letter shall be sent by the proponent to the concerned Panchyat, if any from whom suggestion/representation, if any, were received while processing the proposal.
- 4) The soil and groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.

- 5) No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- 6) The gaseous emissions (SO_x, NO_x, CO) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of 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.
- 7) Fugitive emissions in the work zone environment, product and raw materials storage areas shall be regularly monitored. The emissions shall conform to the limits imposed by the UEPPCB/Central Pollution Control Board.
- 8) The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storages and Import of Hazardous Chemicals Rules, 1989, as amended from time to time. Authorization from the UEPPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
- 9) Installed furnace should meet the air pollution discharge norms of CPCB/ UEPPCB.
- 10) The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with DG sets on site complying with Noise Levels of CPCB standards.
- 11) The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB.
- 12) All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.
- 13) Adequate drinking water and sanitation facility shall be provided on site for the workforce.
- 14) Training shall be imparted to all employees on safety and health aspects. Pre- employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
- 15) The project authority shall also comply with all the environment protection measures and safeguards proposed in the EIA/EMP report. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.
- 16) A separate Environmental Management Cell shall be set up to carry out the Environmental Management functions.
- 17) The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.
- 18) Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles.
- 19) Energy conservation measures to be adopted for reducing the energy consumption.
- 20) At no time the emissions shall exceed the prescribed limits in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
- 21) The locations of ambient air quality monitoring stations shall be reviewed in consultation with UEPPCB, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.
- 22) The stacks of appropriate height as per the central pollution board guidelines shall be provided to control the emissions.
- 23) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standard prescribed under Environment (Protection) Act, 1986 rules, 1989 viz. 75 dB(A) (day time) and 70dB(A) (Night time).
- 24) One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material shall be used during plantation as per standards of State Forest Department. The species selection should include criterion of fruit bearing and fast growing tall trees. The concerned official of State Forest Department shall ensure the compliance.
- 25) The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data in soft copy to this Authority and regional office of MoEF, Govt of India at Dehradun.

Entire Life-

- 1) The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB.

- 2) All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.
- 3) Adequate drinking water and sanitation facility shall be provided on site for the workforce.
- 4) Training shall be imparted to all employees on safety and health aspects. Pre- employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
- 5) The project authority shall also comply with the entire environment protection measures and safeguards proposed in the EIA/EMP report. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.
- 6) The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency
- 7) Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles
- 8) The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project
- 9) The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF, Govt of India at Dehradun.
- 10) The SEIAA reserves the right to include additional safeguard measures if found necessary and also to take action including revoking of the EC granted under provision of EIA Notification 2006. This EC is being granted subject to compliance of Hon'ble Court Orders issued from time to time
- 11) The SEIAA Uttarakhand reserves the right to withdraw the Environmental Clearance or add additional conditions.
- 12) If this Environmental Clearance is transferred then fresh Environment Clearance is to be obtained under EIA notification dated 14.09.2006. However, no activity shall be undertaken till the Environment Clearance is transferred in his name and he is lawfully bound to Comply with the conditions of the Environmental Clearance.
- 13) Corporate Environment Responsibility be followed as proposed.

(Bhuwan Chandra)
Member Secretary,
SEIAA, Uttarakhand

No.- 10 9(10)/2018 dated- as above

Copy for information and necessary action to-

- 1) Secretary, Ministry of Environment, Forests and Climate Change, Gol, Indira Paryavaran Bhawan, Aliganj, Jor Bagh Road, 3rd Floor, Vayu Wing, New Delhi.
- 2) Principal Secretary, Environment and Forests, Government of Uttarakhand, Dehradun.
- 3) APCCF, Regional office (Central) MOEFCC, 25 Subhash Road, Dehradun.
- 4) Principal Chief Conservator of Forests (Wildlife)/Chief Wild Life Warden, Dehradun.
- 5) Member Secretary, UEPPCB, Dehradun.
- 6) Divisional Forest Officer, Dehradun.
- 7) Guard File.

(Bhuwan Chandra)
Member Secretary,
SEIAA, Uttarakhand