

राज्य स्तर पर्यावरण समाघात निर्धारण प्राधिकरण, उत्तराखण्ड, "गौरादेवी पर्यावरण भवन, तृतीय तल, 46-बी, आई.टी. पार्क, सहस्त्रधारा रोड, देहरादून" (पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, नई दिल्ली द्वारा गठित)
दूरभाष: 0135-2976159
ईमेल: seiaa.seac.uk@gmail.com



State Level Environment Impact Assessment Authority, "Gauradevi Paryavaran Bhawan, Third Floor, 46-B I.T. Park, Sahastradhara Road, Dehradun"
(Constituted by Ministry of Environment, Forests and Climate Change Government of India.)
Phone No-0135-2976159
Email- seiaa.seac.uk@gmail.com

E.C.No-239 -03(05)/2024

Dated-30-08-2024

To,

M/s. Hindustan Zinc Limited,
Plot No.-2&3, Sector-14, IIE, State Industrial Development Corporation Uttarakhand Limited (SIDCUL), Village-Pantnagar, Tehsil-Kichha, District-Udham Singh Nagar.

Sub: Regarding Environmental Clearance for Expansion in Proposed capacity of Refined Silver Production (ingots/power etc) from 800 TPA to 1120 TPA capacity in two phases (Phase-1 20% and Phase-2 another 20%) with auxiliary facilities at Plot No.-2&3, Sector-14, IIE, State Industrial Development Corporation Uttarakhand Limited (SIDCUL), Village-Pantnagar, Tehsil-Kichha, District-Udham Singh Nagar.

Kindly refer to your online proposal No SIA/UK/IND3/488074/2024 submitted to SEIAA Uttarakhand regarding aforementioned subject. The details about the project site and proposal for EC as per the documents submitted by the project proponent is as under:

| S.No | Parameters | Description |
|------|--------------------------|--|
| 1. | Products and quantity | Silver refinery plant 1120 TPA |
| 2. | Estimated Project Cost | Rs.120 Crore. |
| 3. | Total Plot Area | 18.0 Ha. (44.48 acres) |
| 4. | Green Area | 8.00 Ha |
| 5. | Fresh Water Consumption | 260 KLD |
| 7. | Fresh Water Source | Bore Well |
| 8. | Power Demand | 2 MW |
| 9. | Power back up | DG -500 KVA is proposed |
| 10. | Wastewater Management | 15 KLD (Used in Horticulture) |
| 11. | Steam and heating system | Nil. |
| 12. | Fuel Consumption | PNG/LPG/LSHS/HSD |
| 13. | Plant capacity | 1120 TPA Noble furnace (1 No 14 TPD), Cupel furnace (2 No 2.5 TPD each), Induction furnace (2x 1TPD+ 1x 1.5 TPD), Junker furnace (2 No 4 TPD), BBOC furnace (1 No 4 TPD) |

Land use details:

| S.No | Parameters | Description |
|------|------------------------|----------------|
| 1. | Ground Coverage Area | |
| 2. | Green Area | 8 HA |
| 3. | Parking Area | |
| 4. | Other Area | 10 HA |
| | Total Plot Area | 18.0 HA |

Raw material details:

| Sr. No | Raw Material | Existing (TPA) | After Proposed Expansion | |
|--------|------------------------------------|----------------|---------------------------------------|---------------------------------------|
| | | | Phase-1 (800 to 960) | Phase-2 (960 to 1120) |
| 1 | Anode slime/High Grade Metal (HGM) | 4680 | Anode Slime/Dore Silver/HGM- 5686 TPA | Anode Slime/Dore Silver/HGM- 6692 TPA |

Domestic Water Demand and Effluent Generation:

| S.No. | Uses | Population/ area | Consumption rate | Water requirement [KLD] | Domestic Effluent [KLD] |
|-------|------|------------------|------------------|-------------------------|-------------------------|
|-------|------|------------------|------------------|-------------------------|-------------------------|

| | | | | | |
|---|----------------|--------------|---------|------------|-----------|
| 1 | Industrial Use | 20 Nos | 30 LPCD | 210 | 0 |
| 2 | Domestic Use | 371.25 sq. m | | 50 | 15 |
| | Total | | | 260 | 15 |

Industrial Water Demand and Effluent Generation:

| S.No. | Uses | Water requirement [KLD] | Effluent Generation [KLD] |
|-------|--------------|-------------------------|---------------------------|
| 1 | Process | 00.00 | 0.00 |
| 2 | Utilities | 210.00 | 100% Recycle |
| | Total | 210.00 | 0.00 |

Hazardous waste details:

| S.No. | Waste Detail | Quantity Generation | Utilization/Disposal |
|-------|--------------|---------------------|---|
| 1 | Solid waste | 5940 kg/annum | Segregated and disposed-of as per the Solid Waste Management. |

The SEAC during its meeting held on 14th August, 2024 had undertaken appraisal of the above project. It has been found that the proposal is classified under category B2 & 3(a) Metallurgical industries (ferrous & non ferrous) as enlisted in project /activity as per EIA Notification, 2006 of Schedule of EIA Notification requiring prior EC. It is placed in B2 category for the purpose of appraisal process. After due examination of the relevant documents submitted by the project proponent and additional clarification furnished in response to its observations earlier, SEAC has recommended the grant of Environmental Clearance for the above project subject to compliance of the EMP and other stipulated conditions. SEIAA during its meeting 24th August, 2024 considered the above proposal based on the recommendation of SEAC. After due examination and deliberation the SEIAA hereby accords Environmental Clearance for the above project under category B-2 of EIA notification 2006 (as amended from time to time) subject to the strict compliance of the conditions mentioned below:-

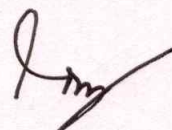
Pre Operation-

- 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 by SEIAA Uttarakhand and a copy of the same be sent to the Regional Office of Ministry of Environment, Forests and Climate Change, Govt 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 Panchayat/Town area.
- 3) Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974 before starting 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 equipment/machineries shall be done within the vacant space available in the plant premises.

During Operation Phase-

- 1) **Project Proponent shall dispose AHU filter dust and filters to TSDF.**
- 2) **The Project Proponent shall develop additional green belt in surrounding area in consultation with local forest office.**
- 3) The project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rainwater harvesting pit.
- 4) The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials. Detail shall be submitted within three months.
- 5) Project Proponent shall install solar lights on the periphery of its premises.
- 6) Regular health checkup of workers by recognized medical practitioners shall be ensured by the Project proponent and shall submit report to SEIAA along with six monthly compliance report.
- 7) The project proponent will submit reports pertaining to ambient air quality, report pertaining to ground water quality and noise. These reports should be monitored and generated by a NABL approved laboratory having scope of it.
- 8) The Project proponent will install advanced dust suppression system at the project site.
- 9) The Project proponent shall plant two rows fast growing species on both the sides of road connecting from the project premises to main road.
- 10) The project proponent shall submit the NoC from CGWB for utilization of ground water.

- 11) The project proponent shall undertake rain water harvesting activities in the two surrounding villages preferably in the schools, primary health centers in consultation with local authorities.
- 12) The building plan and structural design of the unit shall comply with requirements of Seismic Zone – IV as outlined in National Building Code.
- 13) No further expansion or modifications in the plan shall be carried out without the prior approval of competent authority.
- 14) During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed of outside the boundaries of project site without approval of Competent Authority.
- 15) The 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.
- 16) All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water.
- 17) The manufacturing process shall be carried out in closed atmosphere without having any air emissions. However, air emissions from DG set should comply with CPCB norms by designing stack of adequate height.
- 18) No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- 19) All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- 20) The gaseous emissions (SO_2 , NO_x , CO, VOC and HC) and particulate matter along with Respirable Suspended Particulate Matter (RSPM) levels 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.
- 21) 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 UKPCB/Central Pollution Control Board. Dust / Powder from the formulation process shall be collected by dust extractor.
- 22) 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.
- 23) The DG sets shall use low sulphur diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.
- 24) 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 all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- 25) All liquid raw materials shall be stored in storage tanks and drums. Closed handling systems for chemicals and solvents shall be provided. Magnetic seals shall be provided for pumps/agitators for reactors for reductions of fugitive emissions.
- 26) The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non-peak hours.
- 27) All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower be engaged to deal with emergency cases. The labour force engaged on site shall be screened for health from time to time.
- 28) Adequate drinking water and sanitation facility shall be provided on site for the workforce.
- 29) Separate toilets shall be provided for ladies staff.
- 30) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.



- 31) Energy consumption measures like installation of LED/TFL for the external lighting area shall be ensured. The used LED/TFL shall be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- 32) **The Project Proponent shall do plantation of saplings in the earmarked 33% green belt area as a part of the tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLIFE Portal(<https://merilife.nic.in>).**
- 33) Action plan for establishment of solar energy shall be submitted to this office within three months.
- 34) The project proponent shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- 35) The project proponent shall ensure compliance to provisions of all the Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.
- 36) The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB.
- 37) The project authority shall also comply with the entire environment protection measures and safeguards proposed in the EMP. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.
- 38) **The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.**
- 39) Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pretreatment must be done to remove suspended matter, oil and other particles.
- 40) Emergency preparedness plan based on risk assessment shall be made and shall be submitted to this office within three months.
- 41) **The project proponent shall submit within the next 3 months the details on quantification of yearwise CER activities along with cost and other details.**
- 42) STP shall be connected with separate electric meter and photocopy of electric consumption bill shall be submitted with compliance report to this office.
- 43) The project proponent shall provide Personal Protection Equipment (PPE) as per the norms of factory act.
- 44) Agreement with TSDF vendors shall be submitted.
- 45) The grant of this EC is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument as force the sole and complete responsibility to comply with the conditions laid down in all other laws for the time being in force, rests with the project proponent.
- 46) The provisions of the Solid Waste (Management) Rules, 2016 and the plastic waste (management) Rules 2016 shall be followed.
- 47) The project proponent shall abide by all commitments and recommendation made in the form- I, Pre-feasibility report/Environment Management Plan (EMP) and also during their presentation to the expert appraisal committee.
- 48) Any change in planning of the approved plan/site plan will leads to environment clearance void-ab initio and project proponent will have to seek fresh Environmental Clearance.
- 49) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provision of Environment Protection Act 1986.
- 50) The ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of Environment Protection.
- 51) The ministry/SEIAA reserves the right to stipulate additional condition if necessary the project proponent/company in time bound manner shall implement these conditions.
- 52) The Ministry/SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 53) The Regional office of the Ministry shall monitor compliance of the stipulated conditions. The project authorities should extent full cooperation to the officers (s) of the Regional office by furnishing the requisite data/information/monitoring reports.
- 54) The above conditions shall be enforced, inter-alia under the provisions of water Prevention & Control of Pollution) Act 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment Protection) Act, 1986, Hazardous and other wastes Rules, 2016, and the Public Insurance Act 1991, along with their amendments and rules and any other



orders passed by the Hon'ble Supreme court of India/High court of law relating to the subject matter.

- 55) The project proponent shall submit half yearly compliance report of stipulated conditions of Environment Clearance in soft copy through PARIVESH PORTAL given link: <https://parivesh.nic.in>. The compliance report shall also be e mailed to the Regional Office in Dehradun in moef.ddn@gov.in
- 56) The project proponent shall ensure compliance to provisions of all the Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.
- 57) 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 Ministry of Environment, Forests and Climate Change, Govt of India at Dehradun. The contact details of the incharge of Environment Monitoring Cell will also be intimated in the compliance reports.
- 58) 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 provisions of EIA Notification 2006. This EC is being granted subject to compliance of Hon'ble Court Orders issued from time to time.
- 59) The SEIAA Uttarakhand reserves the right to withdraw the Environmental Clearance or add additional conditions.
- 60) If ownership 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.
- 61) This Environmental Clearance (E.C.) is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- 62) The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.
- 63) The project proponent shall ensure compliance to provisions of all the Acts, Rules, Regulations Guidelines and directions of Hon'ble Courts for the time being in force, as applicable to the project.
- 64) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

Your's Faithfully

(Dr. S.P. Subudhi)
Member Secretary,
SEIAA, Uttarakhand

No.-239 03(05)/2024 dated- as above

Copy to:

1. APCCF, Regional office (Central) MoEFCC Govt of India, 25 Subhash Road, Dehradun for information and necessary action.
2. Principal Secretary, Forests & Environment, Government of Uttarakhand, Dehradun for information.
3. Directorate of Industries, Dehradun.
4. District Magistrate, U.S. Nagar for information and necessary action.
5. Member Secretary, UKPCB, IT Park Dehradun for information and necessary action.
6. Guard File for uploading in Parivesh Website.

(Dr. S.P. Subudhi)
Member Secretary,
SEIAA, Uttarakhand

Signature Not Verified
Digitally Signed by: Dr S P Subudhi
Member Secretary, SEIAA

Date: 31/08/2024