

Environmental Clearance No.: SEIAA/GUJ/EC/3(a)/1613/2023 Dated: 13th Dec 2023

Name of the Project: EC to M/s. Hindalco Industries Limited for setting up of manufacturing plant of "Metallurgical Industries" at Plot No. 187/P & 187/P/1/B/2, 187/P & 187/P/1/B/3, 187/P & 187/P/1/B/4, 187/P & 187/P/1/B/5 & 187/P & 187/P/1/B/6 Waghodia GIDC, Taluka: Waghodia, District: Vadodara, Gujarat

List of Products

| S. No | Name of the Product | Quantity |
|-------------|---|----------|
| 1 | Copper Tube | 50,000 |
| 2 | Copper Rod, Copper Alloy Rod, Copper Wires & Copper Alloy Wires | 24,000 |
| Total (TPA) | | 74,000 |

Compliance Status: December 2023 to March 2024

EC Conditions:



| S. No | EC Condition | Compliance |
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| A1 | Specific Condition | |
| 1 | PP shall take safety measures for workers against heat shock, burns, Flashing of Fire and Handling of Heavy equipment and heavy items of steel etc. | Noted and shall be complied during commissioning phase. As the project is under construction phase. |
| 2 | Proponent shall comply all points of public hearing proceedings | Noted and shall be complied. The Action plan for public hearing proceeding is attached as Annexure 1 |
| 3 | PP shall obtain fire permission from competent authority | As on date the Fire permission is not applicable to Hazardous Factories not covered under the Factories Act, 1948 vide notification No. GH/v/68 OF 2021/AGN-102021-100-L1 dated 08 th July, 2021 However, necessary fire precaution is being taken in the Construction Phase. |
| 4 | PP shall provide adequate APC measures for controlling PM, SO _x etc. | Noted and shall be complied during commissioning phase As the project is under construction phase. |
| 5 | PP shall comply with emergency measures and prepare action for any accident | To comply with emergency measures Onsite emergency plan has been prepared and we shall follow the action plan suggested in the onsite emergency plan. |
| 6 | PP shall prepare onsite emergency plan with relevant details | Onsite emergency plan has been prepared |
| 7 | PP shall provide recycling system for reusing of treated wastewater in premises | Noted. PP has proposed ZLD system and shall be complied during commissioning phase. |
| 8 | PP shall submit details for various mitigative measures for controlling dusting during handling and transportation of Slag and Scrap | Noted and will be complied during commissioning of the project. At present project is under construction phase |

| S. No | EC Condition | Compliance |
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| 9 | PP shall carry out preventive maintenance schedule and plan to be included | Noted. At present project is under construction phase, the same shall be complied during commissioning phase. |
| 10 | PP shall not carry out any expansion or increase in production capacity (74,000 MTA) without appropriate permission from competent authority | Noted and complied |
| 11 | All the issues raised during public hearing and commitment made by the project proponent shall be complied in letter and spirit | Noted and shall be complied. The Action plan for public hearing proceeding is attached as Annexure 1 |
| 12 | The National Ambient Air Quality Emission standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November 2009 shall be complied with | Noted. At present project is under construction phase, the same shall be complied during commissioning of the project. |
| 13 | Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants and shall carry out the project development in accordance & consistence with the same | Noted. At present project is under construction phase, the same shall be complied during commissioning of the project. |
| 14 | The Project proponent must strictly adhere to the stipulation made by the Gujarat Pollution Control Board, State Government and/or other statutory authority | Noted and shall be complied |
| 15 | All measures shall be taken to avoid ground water and soil contamination within premises | Noted and will be complied during commissioning of the project. At present project is under construction phase |
| 16 | PP shall adopt renewable energy like installation of solar panel or solar light etc. for proposed project | Noted and shall be complied during commissioning phase. At present project is under construction phase. |
| 17 | PP shall install secondary fume extraction at induction furnace area as per details submitted by PP | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 18 | Unit shall install CEMS (Continuous Emission Monitoring system) in line to CPCB directions to all SPCB vide lette no. B-29016/04/06PCI-1/5401 dated 05/12/2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's sever, which can be assessable by the GPCB/CPCB on real time basis. (For | Noted and shall be complied during commissioning phase. At present project is under construction phase |

| S. No | EC Condition | Compliance |
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| | small/large/medium (Red category) & whichever (Air emission & effluent discharge) is applicable | |
| A2 | Water | |
| 19 | Total water requirement for the project shall not exceed 1808 KLD. Unit shall reuse 292 KLD of treated effluent within premises. Hence freshwater requirement shall not exceed 1516 KLD and it shall be met through GIDC water supply only. Prior permission from concerned authority shall be obtained for procurement of water | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 20 | The industrial effluent generation from the project shall not exceed 285 KLD | Noted and shall be complied during commissioning of the project. At present project is under construction phase. |
| 21 | Management of Industrial effluent shall be as under 285 KLD of industrial effluent generated from cooling (275 KLD) and washing (10 KLD) shall be treated into ETP and treated effluent shall be reused in cooling tower and thus there shall be no discharge of any industrial effluent into an environment like drain, land etc. and shall maintain Zero liquid discharge (ZLD). | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 22 | Domestic wastewater generation shall not exceed 22 KL /day for proposed projects, and it shall be treated in STP. It shall not be disposed off into soak pit. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on land discharge norms prescribed by the GPCB | Noted and shall be complied during commissioning of the project. At present project is under construction phase. |
| 23 | During monsoon season when treated sewage may not be required for the Plantation/gardening/greenbelt purpose, it shall be stored within premises. There shall be no discharge of wastewater outside the premises in any case. | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 24 | Unit shall provide buffer storage tank of adequate capacity for storage of treated wastewater during rainy days | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 25 | Complete Zero Liquid Discharge (ZLD) status shall be maintained | Noted and shall be complied during commissioning of the project. |



| S. No | EC Condition | Compliance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | all the time and there shall be no drainage connection from the premises | At present project is under construction phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | Unit shall provide STP and ETP with adequate capacity | Noted and shall be complied during commissioning phase. At present project is under construction phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | The unit shall provide metering facility at the inlet and outlet of ETP and maintain records for the same | Noted and shall be complied during commissioning phase. At present project is under construction phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | Proper logbooks of ETP, reuse/recycle of treated/untreated effluent, chemical consumption in effluent treatment quantity & quality of treated effluent, power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time | Noted and shall be complied during commissioning phase. At present project is under construction phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3 | Air | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | Unit shall not exceed fuel consumption for copper tube-melting and casting furnace, metal transfer launder, Copper Alloy- melting and casting furnace and DG set as mentioned below | Noted and will be complied during commissioning of the project. At present project is under construction phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>S. No.</th> <th>Source of emission with capacity</th> <th>Stack Height (Meter)</th> <th>Type of Fuel</th> <th>Quantity of Fuel</th> <th>Type of emission i.e. Air Pollutants</th> <th>Air Pollution Control Measures (APCM)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Copper Tube-Melting and Casting Furnace of each set 29098 TPA (2 set) Total Capacity 58196 TPA</td> <td rowspan="2">30</td> <td>Electrical</td> <td>124800 Kwh/day</td> <td rowspan="2">PM, NOx</td> <td rowspan="2">Bag Filter</td> <td rowspan="2"></td> </tr> <tr> <td>2</td> <td>Metal launder (4 nos.)</td> <td>Natural Gas</td> <td>10 M3/hr per launder</td> </tr> <tr> <td>3</td> <td>Copper/Copper Alloy-Melting & Casting furnace Capacity of each set 6000 TPA (4 nos.) Total Capacity: 24000 TPA</td> <td>30</td> <td>Electrical</td> <td>31104 Kwh/Day</td> <td>PM</td> <td>Bag Filter</td> <td></td> </tr> <tr> <td>4</td> <td>DG Set for Emergency power Backup</td> <td>30</td> <td>Diesel</td> <td>840 litre/hr</td> <td>PM, SOx, NOx</td> <td>Adequate stack height will be provided</td> <td></td> </tr> </tbody> </table> | S. No. | Source of emission with capacity | Stack Height (Meter) | Type of Fuel | Quantity of Fuel | Type of emission i.e. Air Pollutants | Air Pollution Control Measures (APCM) | Remarks | 1 | Copper Tube-Melting and Casting Furnace of each set 29098 TPA (2 set) Total Capacity 58196 TPA | 30 | Electrical | 124800 Kwh/day | PM, NOx | Bag Filter | | 2 | Metal launder (4 nos.) | Natural Gas | 10 M3/hr per launder | 3 | Copper/Copper Alloy-Melting & Casting furnace Capacity of each set 6000 TPA (4 nos.) Total Capacity: 24000 TPA | 30 | Electrical | 31104 Kwh/Day | PM | Bag Filter | | 4 | DG Set for Emergency power Backup | 30 | Diesel | 840 litre/hr | PM, SOx, NOx | Adequate stack height will be provided | | |
| S. No. | Source of emission with capacity | Stack Height (Meter) | Type of Fuel | Quantity of Fuel | Type of emission i.e. Air Pollutants | Air Pollution Control Measures (APCM) | Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Copper Tube-Melting and Casting Furnace of each set 29098 TPA (2 set) Total Capacity 58196 TPA | 30 | Electrical | 124800 Kwh/day | PM, NOx | Bag Filter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Metal launder (4 nos.) | | Natural Gas | 10 M3/hr per launder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Copper/Copper Alloy-Melting & Casting furnace Capacity of each set 6000 TPA (4 nos.) Total Capacity: 24000 TPA | 30 | Electrical | 31104 Kwh/Day | PM | Bag Filter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | DG Set for Emergency power Backup | 30 | Diesel | 840 litre/hr | PM, SOx, NOx | Adequate stack height will be provided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | PP shall use approved fuels only as fuel in copper tube-melting and casting furnace, metal transfer launder, Copper Alloy-melting and casting furnace and DG Set | Noted and shall be complied during commissioning phase At present project is under construction phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | Unit shall provide adequate APCM with flue gas generation source to achieve the norms prescribed by GPCB | Noted and shall be complied during commissioning phase of the project. At present project is under construction phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| S. No | EC Condition | Compliance | | |
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| 32 | Unit shall provide adequate APCM with process gas generation source as mentioned below. | Noted and shall be complied during commissioning phase. At present project is under construction phase | | |
| | | | | |
| S. No | Specific Source of emission (Name of the Products & Process) | Type of Emission | Stack/vent Height (meter) | Air Pollution Control Measures (APCM) |
| 1 | Inline IGT annealer (4 nos.) | Fumes | 11 | Fume Extraction System |
| 2 | Inner Groove Tube Machine | Fumes | 11 | Fume Extraction System |
| 3 | Bright Annealing Furnace | Fumes | 11 | Fume Extraction System |
| | | | | |
| 33 | The fugitive emission in the work zone environment shall be monitored. The emission shall conform the standard prescribed by the concerned authorities from time to time. (e.g. Directors of Industrial safety and Health) following indicative guideline shall also be followed to reduce the fugitive emission. | | | |
| | <ul style="list-style-type: none"> Internal road shall be either concreted or paved properly to reduce the fugitive emission during vehicular movement | | | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| | <ul style="list-style-type: none"> Air borne dust shall be controlled with water sprinklers at suitable locations in the plant | | | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| | <ul style="list-style-type: none"> A greenbelt shall be developed all around the plant boundary and along the roads to mitigate fugitive & transport dust emission | | | 55,538 sqm i.e. 33% of the total plot area will be developed as greenbelt area. To meet the requirement of 2500 nos. of Tree per Ha, a total of 13,875 nos. of trees shall be planted within the plant premises. Plantation activity will be started and progressively will be developed after completion of site excavation and levelling work. |
| 34 | Regular Monitoring of Volatile Organic Compound (VOCs) shall be carried out in the work zone area and ambient air | | | Not Applicable, as it is a metallurgical project & there is no emission of VOC from proposed project. |
| 35 | Regular monitoring of ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ , NO _x and fumes shall be carried out in the impact zone and its record shall be maintained. Ambient air quality level shall not exceed the standard stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limit, necessary additional control measures shall be taken | | | At present the project is under construction phase and the ambient air quality monitoring and Noise monitoring at site has been carried out by NABL accredited laboratory. The monitoring results of ambient air quality at site is attached as Annexure 2 |



| S. No | EC Condition | Compliance |
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| | <p>immediately. The location of station and frequency of monitoring shall be decided in consultation with the GPCB</p> |   |
| A4 | Solid/Hazardous Waste | |
| 36 | <p>All the hazardous /solid waste management shall be taken care as mentioned below.</p> | <p>Noted and shall be complied during commissioning phase. At present project is under construction phase</p> |



| S. No | EC Condition | Compliance | | | |
|---------------------------------------|--|---|---------------------------------------|------------------------------------|--|
| S. No | Type/Name of Hazardous waste | Specific Source of generation (Name of the Activity, Product etc.) | Category and Schedule as per HW Rules | Quantity | Management of HW |
| 1 | ETP sludge & Salt | Blowdown water | 35.3 | 1277.5 | Disposal Through approved agencies |
| 2 | Process Residue | Melting Furnace | 8.2 | 10 | Disposal Through approved agencies, Co-processing in cement plant |
| 3 | Oil Contaminated cotton waste & rags | Used from operation & maintenance | 33.2 | 10 | Disposal Through approved agencies, Co-processing in cement plant |
| 4 | Used Oil | Process | 5.1 | 159 | Disposal Through approved agencies or sale to authorized agency |
| 5 | Used Cleaning Liquid | Process | 8.1 | 228 | Disposal through approved agencies or sale to authorized agency or co-processing |
| 6 | Filter media | ETP, STP, RO plant, compressor | 8.2 | 1 | Disposal through approved agencies, Co-processing in cement plant |
| 7 | Refractory waste in shutdown | Furnace | - | 65 | Disposal through approved agencies |
| 8 | Composite/combined material – Rubber, Oil Seal Kit, Cord | Hydraulic System | -- | 11 | Disposal through approved agencies |
| 9 | Used Emulsion | Process | 5.2 | 65 | Disposal through approved agencies or sale to Authorized recycler agency |
| 10 | Used container (oil & grease drum, barrer) | Lubricated grease & Oil, Cleaning Oil | 33.1 | 84 (nos.) | Sale to Authorized recycler agency |
| 11 | Flue gas dust & other | Furnace | -- | 1 | Disposal through approved agencies |
| 12 | Worn Graphite Crucible | Furnace | -- | 4 | Disposal through approved agencies |
| 13 | Graphite Dust | Furnace | -- | 1 | Disposal through approved agencies |
| NON-HAZARDOUS WASTE MANAGEMENT MATRIX | | | | | |
| S. No | Type/Name of Non-hazardous waste | Specific Source of generation (Name of the activity, product, etc) | Quantity (MT/Annum) | Management of NHW | |
| 1 | Wooden Waste | Packing Material | 36 | Disposal through approved agencies | |
| 2 | STP Sludge | STP | 75 | Use as manure in gardening | |
| 37 | Authorized end user shall have permission from the concerned authorities under the Rule 9 of Hazardous and other waste (Management and Transboundary Movement) Rules 2016 (if applicable) | The provisional membership for Hazardous waste disposal has been obtained from BEIL infrastructure Limited. Copy of membership is attached as Annexure 3 | | | |
| 38 | Unit shall explore the possibilities for environment friendly method like co-processing of hazardous waste for disposal of incinerable & land fillable waste before sending to CHWIF & TSDF sites respectively (If applicable) | Noted and shall be complied during commissioning phase. At present project is under construction phase | | | |
| 39 | The project proponent has to obtain membership of TSDF site & CHWIF before obtaining CTO of GPCB (If applicable) | The provisional membership for Hazardous waste disposal has been obtained from BEIL infrastructure Limited. Copy of membership is attached as Annexure 3 | | | |



| S. No | EC Condition | Compliance |
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| 40 | STP sludge shall be collected and used as manure in gardening activity or send to TSDF site for landfilling. | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 41 | Entire quantity of process slag generated from manufacturing plant shall be either used to land filling or sold to actual end users and record shall be maintained | Not applicable as there is no generation of slag from our manufacturing facility |
| A5 | Others | |
| 42 | <p>The project proponent shall carry out the activities of amount of Rs. 5.58 Crores (Rooftop Solar panel for</p> <p>Anganwadi, Primary School and Health Centre at Junarapura, Limda, Dolar, Alva, Gajadara and Nava Ajva, Solar Street light for self-sustaining green technology at Limda, Ishwarpura, Waghodia, Gajadara and Nava Ajwa, Roof top rain water harvesting at Junarapura, Limda, Dolar, Alva, gajadara and Nava Ajva, Community tree plantation at Kamlapura, Limda, waghodia, Chitha, Dholar, Vejalpur and Deepening and beautification of village pond at Vejalpur, Tavra, Madodhar, Akhadiyapura, Limda, Ishwarpura, Timdi) proposed under CER and it shall be part of Environment Management Plan (EMP) as per the MOEF&CC OM no. F. No. 22-65/2017-IA.III dated 30.09.2020. This shall be monitoring and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half yearly compliance report and to the District Collector, The monitoring report shall be posted on the website of the project proponent.</p> | <p>Noted and shall be complied.</p> <p>At present as project is under construction phase, Hindalco Industries Limited has started approaching nearby villages to carry out the CER activities. This work will be initiated soon and will be carried out progressively</p> |
| 43 | As proposed, at least 0.03 Crore shall be allotted for the conservation plan Schedule I species (in case of Schedule I Species) | The conservation plan for schedule I species has prepared and submitted to Principal Chief Conservator of Forest for further approval. The budget for the conservation plan will be allotted based on EC and as further approval from the State Forest Department. |
| 44 | The activities and the action plan proposed by the project proponent to address the socio economic and public hearing issues in the study area shall be | <p>Noted and shall be complied.</p> <p>The Action plan for public hearing proceeding is attached as Annexure 1</p> |

| S. No | EC Condition | Compliance |
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| | completed as per the schedule presented before committee and as described in the EMP report in letter and spirit | |
| 45 | All recommendation, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project proponent by M/s. Kadam Environmental Consultants and submitted by the project proponent and commitment during Presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit | Noted and shall be complied. |
| B | GENERAL CONDITION | |
| B1 | Construction Phase | |
| 46 | Water demand during construction shall be reduced by use of curing agent, super plasticizers, and other best construction practice | To reduce the water demand we have carried out following. 1. Proposed project will install PEB structure instead of RCC to make equivalent water requirement Nil. 2. Wherever non-critical construction activities are there water curing agent will be added without compromising the concrete strength. |
| 47 | Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission | Noted and complied  |
| 48 | All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase | All required sanitary and hygienic measure is provided at construction site.  |

| S. No | EC Condition | Compliance |
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| 49 | First aid box shall be made readily available in adequate quantity at all the times | First aid box is made available at site. |
| 50 | The project proponent shall strictly comply with the building and other construction workers (Regulation of Employment & Conditions of service) Act 1996 and Gujarat rules made there under and their subsequent amendment. Local bye laws of concern authority shall be complied in letter and spirit | Noted and complied. |
| 51 | Ambient noise level shall conform to residential standard both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase. | <p>At present the project is under construction phase and the ambient air quality monitoring and Noise monitoring at site has been carried out by NABL accredited laboratory. The monitoring results of ambient air quality at site is attached as Annexure 2</p>   |
| 52 | Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA rules for air and Noise emission standard | Power supply has been provided by MGVCL at site and DG set has not been used at site till March 2024. However, for future during construction phase if DG will be used then it shall conform to EPA rules for air and noise emission standard. |
| 53 | Safe disposal of wastewater and municipal solid waste generated | Proper sanitation facility has been provided at site. Soakpit has been provided at site for disposal of wastewater and municipal |

| S. No | EC Condition | Compliance |
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| | during the construction phase shall be ensured | solid waste is disposed through Vadodara Municipal corporation only. |
| 54 | All topsoil excavated during construction activity shall be used in horticulture /landscape development within project site | <p>All fertile topsoil excavated during the construction activity is stored properly at site and shall be used for horticulture/Landscape development within the project site and other soil shall be used for backfilling.</p>  |
| 55 | Excavated earth to be generated during construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed-off with the approval of competent authority after taking the necessary precaution for general safety and health aspects. Disposal of excavated earth during construction phase shall not create adverse effect on neighboring communities | <p style="text-align: center;">Noted and Complied</p>  |
| 56 | Project proponent shall ensure use of eco-friendly building material including fly ash bricks, fly ash paver block, Ready mix Concrete (RMC) and lead-free paints in the project | The solid concrete block used for the construction has 20% of fly ash content and lead free paints has been used for the project |
| 57 | Fly ash shall be used in construction wherever applicable as per provision of Fly ash Notification under the E P Act 1986 and its subsequent amendment time to time | Noted and Complied |

| S. No | EC Condition | Compliance |
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| 58 | Wind-breaker of appropriate height i.e. 1/3 rd of the building height and maximum up to 10 meters shall be provided. Individual building within project site shall also be provided with barricades | The construction activities within plant premises started only after construction of boundary wall with height more than 13 ft. |
| 59 | No uncovered vehicle carrying construction material and waste shall be permitted | Noted and complied |
| 60 | No loose soil or sand or construction and demolition waste or any other construction material that cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emission shall be ensured. | <p>Loose and excavated soil is covered with the tarpaulin to avoid the dust pollution.</p>  |
| 61 | Road leading to or at construction site must be paved and blacktopped (i.e. Metallic Road) | <p>The approach road to construction site is paved and blacktopped. Noted and Complied</p>  |
| 62 | No excavation of Soil shall be carried out without adequate dust mitigation measures in place. | Regular water sprinkling was done prior to excavation of soil |
| 63 | Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing | Dust mitigation measures are displayed prominently at the construction site. |

| S. No | EC Condition | Compliance |
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| 64 | Grinding and cutting of building material in open area shall be prohibited | Noted and complied. Dedicated covered area has provided for grinding and cutting of building material within construction site. |
| 65 | Construction material and waste should be stored only within earmarked area and roadside storage of construction material and waste shall be prohibited | <p data-bbox="711 894 1393 982">Construction site has allotted dedicated area for construction material as well as for storage of waste within the plant premises.</p> <div data-bbox="699 1010 1377 1325">  </div> <p data-bbox="829 1331 1243 1360">Scrap yard/Storage of waste material</p> |
| 66 | Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified the site (if applicable) | Noted and will be complied |
| B2 | OPERATION PHASE | |
| B 2.1 | Water | |
| 67 | The water meter shall be installed, and records of daily and monthly water consumption shall be maintained | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 68 | All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, | Noted and shall be complied during commissioning phase. At present project is under construction phase |

| S. No | EC Condition | Compliance |
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| | recycle and reuse the treated effluent | |
| B 2.2 | Air | |
| 69 | In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed spray dryer & its APCM through the credible institute and study report for impacts on Environment and human health shall be submitted to GPCB every year along with half yearly compliance report | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 70 | Acoustic enclosure shall be provided to the DG sets (if applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 71 | Stack/vent (whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission /process gas emission | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 72 | Flue gas emission & process gas emission (if any) shall conform to the standard prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 73 | All the reactors/vessels used in the manufacturing process shall be closed to reduce the fugitive emission | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| B 2.3 | Hazardous /Solid waste | |
| 74 | The company shall strictly comply with the rules and regulations with regards to handling and disposal of hazardous waste in accordance with the hazardous and other wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection /treatment /storage/disposal of hazardous waste | Noted and shall be complied during commissioning phase. At present project is under construction phase |

| S. No | EC Condition | Compliance |
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| 75 | Hazardous wastes shall be dried, packed, and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility before its disposal | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 76 | The unit shall obtain necessary permission from the nearby TSDF site and CHWIF (whichever is applicable) | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 77 | Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provision under the motor Vehicle Act, 1988 and rules made there under | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 78 | The design of the Truck/Tankers shall be such that there is no spillage during transportation | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 79 | All possible efforts shall be made for co-processing of the hazardous waste prior to disposal into TSDF/CHWIF | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 80 | Management of fly ash (if any) shall be as per the Fly Ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the Unit. | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| B 2.4 | SAFETY | |
| 81 | Requisite on-site and Off-site Disaster Management Plans have to be prepared and implemented | Noted and shall be complied during commissioning phase. At present project is under construction phase and adequate safety measures are being taken during construction phase also |
| 82 | Sufficient no. of fire extinguisher shall be provided near the plant and storage area | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 83 | The Project management shall ensure to comply with all the environmental protection measures, risk mitigation measures and safeguard mentioned in the Risk Assessment report | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 84 | Only flame proof electrical fitting shall be provided in the plant premises | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 85 | Tie shall be done to nearby health care unit/doctor for seeking immediate medical attention in the case of emergency | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 86 | Personal protective equipment like heat resistance suit shall be provided to workers and its | Noted and shall be complied during commissioning phase. At present project is under construction phase |

| S. No | EC Condition | Compliance |
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| | usages shall be ensured and supervised | |
| 87 | First Aid Box shall be made readily available in adequate quantity | First Aid Box is available all the time at site |
| 88 | Training shall be imparted to all the workers on safety and health aspect of chemical handling | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 89 | Occupation Health surveillance of the workers shall be done, and its record shall be maintained. Pre-employment and periodic medical examination for all the workers shall be undertaken as per the Factories Act and Rules. | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 90 | The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 91 | Necessary permission from various statutory authorities like Factory Inspectorate and other shall be obtained prior to commissioning of the project if applicable | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 92 | The occupier/ manager shall strictly comply with the provision made under the Factory Act 1948 and Gujarat Factories Rules 1963 | Noted and shall be complied during commissioning of the project. At present project is under construction phase |
| 93 | The project authorities shall strictly comply with the provision made in manufacture, storage and import of Hazardous Chemical Rules (MSIHC)1989, as amended time to time and public liability Insurance Act for handling hazardous chemical etc. Necessary approval from the Chief controller of Explosive and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite on-site and off-site Disaster Management Plan have to be prepared and implemented | Noted. Necessary approvals shall be obtained prior to commissioning phase. At present project is under construction phase and the same is taken into consideration. |
| 94 | Main entry and exit shall be separate and clearly marked in the facility | Complied, unit has given separately entry and exit gate facility |
| 95 | Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/emergency vehicle around the premises, | Noted and complied |

| S. No | EC Condition | Compliance |
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| 96 | Storage of flammable chemicals shall be sufficiently away from the production area | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 97 | All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic /hazardous chemicals | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 98 | All toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permission in this regard shall be obtained before commencing the expansion activities | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 99 | Storage of hazardous chemical shall be minimized and it shall be in multiple small capacity tanks /containers instead of one single large capacity tank/container | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 100 | All the storage tanks shall be filled with appropriate control to avoid any leakage. Bund/dyke walls shall be provided for storage tank of hazardous chemicals | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 101 | Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimum human exposure occurs | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 102 | First Aid Box and required Antidots for the chemicals used in the unit shall be made readily available in adequate quantity | Complied Adequate first aid box is readily available within premises. |
| 103 | Transportation of hazardous chemicals shall be done as per the provision of the Motor Vehicle Act & Rules | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| B 2.5 | Noise | |
| 104 | The overall noise level in and around the plant area shall be kept within the standards by providing noise control measures including engineering controls like acoustic insulation hoods. Silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standard under The Environment (Protection) Act, 1986 & Rules | Noted and complied. Copy of Noise monitoring results are attached as Annexure 2 |
| 105 | Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment | Noted and shall be complied during commissioning of the project. At present project is under construction phase |

| S. No | EC Condition | Compliance |
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| 106 | To minimize the noise pollution the following noise control measures shall be implemented | |
| | Selection of any new plant equipment shall be made with specification of low noise levels | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| | Manufacturers/suppliers of major noise generating machines /equipment like air compressors, feeder pumps, turbine generators, etc shall be instructed to make required design modification wherever possible before supply and installation to mitigate the noise generation and to comply with the national/international regulatory norms with respect to noise generation for individual units | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| | Regular maintenance of machinery and vehicle shall be undertaken to reduce the noise impact | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| | Noise suppression measures such as enclosures, buffers and /or protective measures shall be provided | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| | Employee shall be provided with ear protection measures like earplugs or earmuffs | Noted and shall be complied during commissioning of the project. At present project is under construction phase |
| | Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipment to reduce the noise generation | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| | Construction equipment generating minimum noise and vibration shall be chosen | Noted and shall be complied |
| | Ear plug and /muffs shall be made compulsory for the construction workers working near the noise generating activities /machines /equipment | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| | Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate | Noted and same is complied during construction phase |
| | Construction equipment meeting the norms specified by EP Act, 1986 shall only be used | Noted and same is complied during construction phase |
| | Noise control equipment and baffling shall be employed on generator especially when they | Noted and shall be completed during commissioning phase. At present project is under construction phase |

| S. No | EC Condition | Compliance |
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| | are operated near the residential and sensitive areas | |
| B 2.6 | Cleaner Production and Waste minimization | |
| 107 | The unit shall undertake the cleaner production assessment study through reputed institute/organization and shall form a CP team in the company. The recommendation thereof along with the compliance shall be furnished to GPCB. | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 108 | The company shall undertake various waste minimization measures such as | |
| A | Metering and control of quantities of active ingredient of minimize waste | Noted and shall be complied during commissioning of the project. At present project is under construction phase |
| B | Reuse of by products from the process as raw material or as raw material substitutes | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| C | Use of automated and close filling to minimize spillage | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| D | Use of close fees system into batch reactors | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| E | Venting equipment through vapor recovery system | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| F | Use of high-pressure hoses for cleaning to reduce wastewater generation | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| G | Recycling of washes to subsequent batches | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| H | Recycling of steam condensate | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| I | Sweeping /mopping of floor instead of floor washing to avoid effluent generation | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| J | Regular preventive maintenance for avoiding leakage, spillage etc | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| B 2.7 | Greenbelt and other Plantation | |
| 109 | The unit shall develop greenbelt within premises as per the CPCB guideline. However, if the adequate land is not available within premise, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with GIDC/GPCB and submit an action plan of plantation for next three years to GPCB | The Unit shall develop 33% Greenbelt area within the plant premises as per CPCB Guidelines. |
| 110 | Drip irrigation /low volume, low angle sprinkler system shall be | Noted and shall be complied during commissioning phase. At present project is under construction phase |


| S. No | EC Condition | Compliance |
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| | used for greenbelt development within the premises | |
| 111 | The PP shall develop greenbelt within premises (55538 sqm i.e. 33% of the total plot area) as submitted before SEAC. Greenbelt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guideline. It shall be implemented within 3 years of operation phase in consultation with GPCB | Noted. 55,538 sqm i.e. 33% of the total plot area will be developed as greenbelt area. To meet the requirement of 2500 nos. of Tree per Ha, a total of 13,875 nos. of trees shall be planted within the plant premises. Plantation activity will be started after completion of site excavation and levelling work. |
| B3 | Other conditions | |
| 112 | PP shall carry out the safety audit and Risk assessment Report as per the prevailing guideline of safety | Noted and shall be complied during commissioning of the project. At present project is under construction phase |
| 113 | Management of Fly Ash shall be as per the Fly Ash Notification 2009 & its amendment from time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit | Not applicable as there is no generation of fly ash within plant premises. |
| 114 | EMP Should invariably include provision for environmental monitoring and measures for noise pollution control measures | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 115 | In EMP proponent should separately indicate majors of occupational health, fire and safety measures | Noted and shall be complied during. At present project is under construction phase |
| 116 | Prior EC is granted is subject to the proponent receiving all statutory permission/clearance /certificate and membership of respective agencies/ authorities whichever applicable. Proponent shall inform progress time to time, in six monthly compliance report of MOEF&CC/SEIAA/SEAC/GPCB failing which this provisional EC will stand withdrawn. | All statutory permission/clearances whichever as and when applicable during construction phase shall be taken. |
| 117 | All transport movement by tankers etc. has to be done with maintenance of gate pass and logbook it should be verified by the inspecting authorities | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 118 | Non-hazardous waste data shall be informed to GPCB time to time do as to make an assessment and tie-up with industry for | Noted and shall be complied during commissioning phase. At present project is under construction phase |

| S. No | EC Condition | Compliance |
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| | generating sustainable power from waste | |
| 119 | EMP should include STP and detail cost including maintenance, transportation of wastewater to CETP/CMEE etc as well as transportation cost of transit cost. | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 120 | In LDAR preventive and predictive maintenance plan | Not applicable as there is no storage or handling of solvents within plant premises. |
| 121 | In LDAR leakage component, source of equipment leak, detention method should be given in table form. | Not applicable as there is no storage or handling of solvents within plant premises. |
| 122 | In storage component should be shown separately in terms whether inflammable toxic, corrosive, reactive etc. | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 123 | In case of Fly ash generation its management and disposal should be as per Government of India Notification and 100% utilization should be ensures | Not applicable as there is no generation of fly ash within plant premises. |
| 124 | Project proponent shall install all environment management systems as per CPCB/GPCB directive regarding the effluent discharge and air emission in working condition | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 125 | Project proponent shall display the copy of environmental clearance at the prominently | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 126 | Project Proponent shall prepare and follow regular and preventive maintenance plan. The copy of the same shall be submitted to SEIAA | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 127 | Project proponent will have to display the safety procedure in working area | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 128 | The Project proponent shall obtain all required permission for safety, health and fire from competent authorities like PESO/fire Authority etc. and intimate SEIAA | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 129 | Project proponent will intimate SEIAA/SEAC/GPCB after obtaining the membership of common facilities like CETP/TSDF/CHWIF/CMEE/Comm on Spray Dryer as the case may be | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 130 | Extra care will be taken by PP to avoid any accidental blast in | Noted and shall be complied during commissioning phase. At present project is under construction phase |

| S. No | EC Condition | Compliance |
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| | boiler, reactor, or any machinery in the plant | |
| 131 | Environmental monitoring, training and disaster management plan should be undertaken and complied at regular interval | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 132 | Integrated Regional office of MoEF&CC Gandhinagar and GPCB will monitor all environmental, safety and health norms as per the prevailing rules. | Noted |
| 133 | The PP has to maintain log sheet/register/manifest/gate pass for discharge through tankers and SCADA system for pipeline discharge for the wastewater generation and its disposal data and submit to the GPCB every quarter. GPCB shall verify the same on regular basis and inform SEIAA and take legal action in case of non-compliance | Not applicable as unit has proposed the ZLD plan |
| 134 | Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC, vide no. F.No. 22-34/2018-IA.III dated 09/08/2018 for pharmaceutical and chemical industries mentioned at (S. No.XX) | Not applicable as unit is for metallurgy Industry |
| 135 | The project proponent shall allocate the separate fund for Corporate Environmental Responsibilities (CER) in accordance to the MoEF&CC's office memorandum no. F. No. 22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and monitoring report shall be submitted to the regional office of MoEF&CC as a part of half yearly compliance report and to District collector. The monitoring report shall be posted on the website of the project proponent | Noted and shall be complied. At present project is under construction phase, Hindalco Industries Limited has started approaching nearby villages to carry out the CER activities and same shall be carried out at the earliest. |
| 136 | Rainwater harvesting of surface as well as rooftop runoff shall be undertaken, and same water shall be used for the various activities | Noted and shall be complied during commissioning phase. At present project is under construction phase |

| S. No | EC Condition | Compliance |
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| | of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface water pre-treatment must be done to remove suspended matter | |
| 137 | The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is take up either by industrial Association or GIDC or GPCB or any such authority created for this purpose by Govt/GIDC | Noted and shall be complied during commissioning phase project. At present project is under construction phase |
| 138 | Application of solar energy shall be incorporated for illumination of common areas, lighting for garden and street lighting in addition the provision of solar water heating system shall also be provided | Noted and shall be complied during commissioning phase. At present project is under construction phase |
| 139 | The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose | Noted and will be complied. |
| 140 | All the commitment /undertaking given to the SEAC during appraisal process for the purpose of environmental protection and management shall be strictly adhered to | Noted and shall be complied |
| 141 | The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of Environmental Protection and management | Noted and shall be complied |
| 142 | In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until desired efficiency of the control equipment has been achieved | Noted and shall be complied |
| 143 | The project authorities must strictly adhere to the stipulation made by Gujarat Pollution Control Board (GPCB), State Government and any statutory authorities | Noted and shall be complied |
| 144 | During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillage | Noted and shall be complied |

| S. No | EC Condition | Compliance |
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| | with domestic wastewater or storm water | |
| 145 | Pucca flooring/impervious layer shall be provided in the work areas, chemical storage area and chemical handling areas to minimize soil contamination | Noted and shall be complied |
| 146 | Leakage from pipes, pumps shall be minimal and if occurs, shall be arrested promptly | Noted and shall be complied |
| 147 | No further expansion or modification in the plant likely to cause environmental impact shall be carried out without obtaining prior environmental Clearance from the concerned authority | Noted and shall be complied |
| 148 | The above condition will be enforced, interalia under the provision of the water (Prevention & control of Pollution) Act 1974, Air(Prevention & control of Pollution) Ac 1981, The Environment (Protection) Act 1986, Hazardous wastes (Management, handling and Transboundary Movement) Rules 2008 and the Public Liability Insurance Act 1991 along with their amendment and rules | Noted and shall be complied |
| 149 | The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules 2014 and its amendment from time to time in a letter and spirit | Noted and shall be complied |
| 150 | The project management shall ensure that unit complies with all the environmental protection measures, risk mitigation measures and safeguard recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent | Noted and shall be complied |
| 151 | The project authorities shall earmark adequate funds to implement the condition stipulated by SEIAA as well as GPCB along with implementation schedule for all the conditions stipulated therein. The funds so provided shall not be diverted for any other purpose | Noted and shall be complied |

| S. No | EC Condition | Compliance |
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| 152 | <p>The applicant shall inform public that project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA/SEAC/GPCB. This shall be advertised within seven days from the date of the clearance letter, in atleast two local newspaper that are widely circulated in the region, one of which shall be in the Gujarati language and other in English. A copy each of same shall be forwarded to the concerned Regional Office of the Ministry</p> | <p>The Advertisement of EC has been published in the English Newspaper of Indian Express (The Sunday Express) and Gujarati Newspaper i.e Divya Bhaskar on 17th December 2023 within 4 days of the EC receipt from SEIAA.</p>  <p>The Gujarati advertisement (top) is titled 'હિન્દાલ્કો ઇન્ડસ્ટ્રીઝ લિમિટેડ' and mentions SEIAA Gujarat clearance no. 1613/2023. The English advertisement (bottom) is titled 'Hindalco Industries Limited' and mentions 'NOTICE OF ENVIRONMENTAL CLEARANCE BY SEIAA, GUJARAT FOR SETTING UP OF MANUFACTURING PLANT OF METALLURGICAL INDUSTRIES'.</p> <p>The Newspaper advertisement copy has been submitted to Regional office of the Ministry. Inward copy of the same is attached as Annexure 4</p> |
| 153 | <p>It shall be mandatory for the project management to submit half-yearly compliance report in respect of stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authorities concerned on 1st June and 1st December of each calendar Year</p> | <p>Noted and shall be complied</p> |
| 154 | <p>Concealing factual data or submission of false/fabricated data and failure to comply with any of the condition mentioned above may result in withdrawal of this clearance and attract action under the provision of</p> | <p>Noted</p> |

| S. No | EC Condition | Compliance |
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| | Environment (Protection) Act 1986 | |
| 155 | The project authority shall also adhere to the stipulation made by the Gujarat Pollution Control Board | Noted |
| 156 | The SEIAA may revoke or suspend the clearance, if implementation of any of the above condition is not found satisfactory | Noted |
| 157 | The company in a time bound manner shall implement these conditions. The SEIAA reserve the right to stipulate additional conditions, if the same in found necessary | Noted |
| 158 | The Project authorities shall inform GPCB, Regional office MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project | Noted and shall be complied |
| 159 | This environmental clearance is valid for ten year from the date of issue | Noted |
| 160 | Any appeal against this environmental clearance 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 | Noted |
| 161 | Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on application make this environmental clearance cancelled | Noted |
| B4 | Compliance of Environmental Clearance/Reporting/Administrational/Appeal | |
| 162 | Project proponent shall inform to all the concerned authorities including Municipal Corporation and District collector and shall also give wide publicity through advertisement in minimum two local newspaper within seven days, about the Environmental clearance order accorded | The Newspaper advertisement copy has been submitted to Municipal Corporation and District collector. Inward copy of the same is attached as Annexure 5 . Noted and complied |
| 163 | Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above conditions | Noted and complied. Ms. Mitali Khuman is appointed as a Key person in the organization who shall be responsible for Compliance of EC conditions. |

| S. No | EC Condition | Compliance |
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| | fully on behalf of the proponent. It will not mean that appointing a key person will exempt project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to the SEIAA and all concerned authorities | |
| 164 | Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MoEF&CC, GPCB and nodal department of Government | Noted and shall be complied |
| 165 | The Nodal department or any authority or officer authorized by MoEF&CC/SEIAA can inspect the site of the project and all the facilities for verification of compliances of environmental clearance conditions | Noted |
| 166 | In case of violation reported upon, the project proponent shall be responsible for all legal actions as per Environmental Protection Act 1986 including SEIAA may cancel, withdraw or keep in abeyance the environmental clearance accorded | Noted |
| 167 | Any person including the project proponent affected by this Environmental Clearance order may file appeal to Honorable National Green Tribunal West Zone Branch, Pune preferably within a period of thirty days from the date of issue of Environmental Clearance as prescribe under Section 16 of National Green Tribunal Act 2010 | Noted |
| 168 | All complaint and public grievance or representation may be addressed to SEIAA/SEAC in the email addresses (a) msseiaagj@gmail.com & (b) seacgujarat@gmail.com | Noted |

Annexure 1: Public Hearing Action Plan

| Sr. No. | Name and village of representer | Points represented | Reply from Representative of Project Proponent | Action to be Taken | Fund Required |
|----------------|---|---|--|---|----------------------|
| 1. | Shri Utsavkumar Rasiklal Parikh Village: Waghodia, Ta: Waghodia, District: Vadodara. | He welcomed the project coming up in the Waghodia as there will be benefit in the 10 Km area and employment generation. As per his opinion this project is not likely to cause pollution or damage. So, this project is welcomed and should be started at the earliest. | Company representative expressed thanks. | Not Action Required. | Not required |
| 2. | Shri Brijeshkumar Harishchandra Goswami Village: Waghodia, Ta: Waghodia, District: Vadodara. | He requested to give priority to local people in employment. | Company representative informed that around 500 people will be employed in project and priority will be given to the local people first. | The employment opportunities shall be given to local people based on requirement of the company and qualification/experience. | Not required |
| 3. | Shri Bhupendrabhai Bhailalbai Patel Village: Vyara, Ta: Waghodia, District: Vadodara. | He informed that there will be opportunities for employment, direct and indirect benefit to all. He recommends that the project will get the permission at earliest. | Company representative expressed thanks. | The employment opportunities shall be given to local people based on requirement of the company and qualification/experience. | Not required |
| 4. | Shri Amrishbhai Sanabhai Parmar Village: Goraj, Ta: Waghodia, District: Vadodara. | He welcomed the project of Hindalco company. | Company representative expressed thanks. | No Action required. | Not Required |
| 5. | Shri Diptiben Dilipbhai Jaiswal Village: Waghodia, | She said that we the people are very happy that Hindalco company is coming to Waghodia GIDC. | Company representative expressed thanks. | No Action required. | Not Required |

| Sr. No. | Name and village of representer | Points represented | Reply from Representative of Project Proponent | Action to be Taken | Fund Required |
|---------|--|---|---|---------------------|---------------------|
| | Ta: Waghodia, District: Vadodara. | She requested that every man & woman of the nearby area will get the benefit from this, so that the company will get the approval and start at the earliest. | | | |
| 6. | Shri Nileshbhai Chandrakantbhai Purani Village: Waghodia, Ta: Waghodia, District: Vadodara. | He requested to ensure that company shall provide employment to the local people. The company has to follow the pollution norms as mentioned in the public hearing presentation. It is ensured that people of Waghodia will be economically uplifted through employment and their health and well-being are not being compromised. It is requested to give necessary permission to the company to develop the taluka and the country. | Company representative informed that company will obey and follow all the rules related to the environment. Local people will be given priority in employment according to their experience and educational qualifications. | No Action required. | No Action required. |
| 7. | Smt. Trushaben Shaileshbhai Patel Village: Waghodia, Ta: Waghodia, District: Vadodara. | She requested to give employment to local educated peoples. She welcomed the project. | Company representative expressed thanks. | No Action required. | Not Required |



KADAM ENVIRONMENTAL CONSULTANTS
An ISO 9001-2015 Certified Company (MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.
Phone : (O) 0265 - 6131000, 6131001



TC-7099

ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/174/01 (ULR- TC709924000005145F)

SAMPLE DETAILS

| | |
|--|--|
| 1. Name & Address of Client: M/s. Hindalco Industries Limited. (COPPER IGT WAGHODIA) Plot NO. 187/P-P/1/B/2,P/1B/3,P1/B5,P1/B/6,187/P Vaghodia Industrial Estate, Village: Vaghodia, Dis: Vadodara-391760, Gujarat, India. | 3. Client Representative: Ms.Mitali Khuman |
| 2. Sample ID: 174FB24AQ01 | 4. Sampling Date: 26.02.2024 |
| 4. Sampling Date: 26.02.2024 | 5. Sampling Location: Near Porta Cabin |
| 6. Sampling time: 12:40 hr | 7. Sampling Duration: 24 Hrs |
| 8. Analysis commenced on: 28.02.2024 | 9. Analysis Completed on: 28.02.2024 |
| 10. Reporting Date: 11.03.2024 | 11. Discipline: Chemical |
| 12. Sample Collected By: Mr.Ronak Patel | 13. Group: Atmospheric Pollution |
| 14. Sampling Procedure: IS Method | 15. Product: Ambient Air |
| 16. Description of Sample: Sampling Bottles: Sealed <input checked="" type="checkbox"/> Filter Paper: Packed <input checked="" type="checkbox"/> Bladder: Clamped <input checked="" type="checkbox"/> | |
| 17. Environment Condition: Temp: Normal Humidity: Medium Wind speed: Smooth Cloud cover: Clear sky | |
| Rain: No Rain Wind Direction: Up wind Wind blowing from: - Station category: Industrial | |
| 18. Sampling Received Date: 28.02.2024 | |

TEST RESULTS

| S. No. | Parameters | Unit (SI) | Results | Specification/ SPCB Norms/ BIS Standards | Method Used |
|--------|---------------------------------------|----------------------|---------|--|----------------------------------|
| 1. | PM ₁₀ | µg /m ³ : | 58 | 100 | IS 5182(Part 23): 2006 (RA 2017) |
| 2. | PM _{2.5} | µg /m ³ : | 20 | 60 | NAAQMS Manual by CPCB (Volume-1) |
| 3. | Sulphur Dioxide (SO ₂) | µg /m ³ : | 8.56 | 80 | IS 5182(Part 2): 2001 (RA 2017) |
| 4. | Oxides of Nitrogen (NO _x) | µg /m ³ : | 17.53 | 80 | IS 5182(Part 6): 2006 (RA 2017) |

Remark :

Authorized By - *Sapana Amin*

Name : Sapana Amin Designation : Lab Incharge

- NOTE :**
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 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

| TEST REPORT FORMAT - AMBIENT | | |
|------------------------------|------------------------|---------------------------|
| DOC. NO.: LAB-FMT-051 | Issue No.: 02 | Revision No.: 03 |
| Effective Date: 01.03.2021 | Issue Date: 01-01-2015 | Revision Date: 01.03.2021 |

KADAM ENVIRONMENTAL CONSULTANTS

An ISO 9001-2015 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.
Phone : (O) 0265 - 6131000, 6131001



ENVIRONMENTAL MONITORING REPORT


LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/174/02

SAMPLE DETAILS

| | | | | | |
|-----|---|--|--|--|------------------------|
| 1. | Name & Address of Client: M/s. Hindalco Industries Limited. (COPPER IGT WAGHODIA) Plot NO. 187/P-P/1/B/2,P/1B/3,P1/B5,P1/B/6,187/P Vaghodia Industrial Estate, Village: Vaghodia, Dis: Vadodara-391760, Gujarat, India. | | | | |
| 2. | Sample ID: 174FB24AQ01 | 3. | Client Representative: Ms.Mitali Khuman | | |
| 4. | Sampling Date: 26.02.2024 | 5. | Sampling Location: Near Porta Cabin | | |
| 6. | Sampling time: 12:40 hr | 7. | Sampling Duration: 24 Hrs | | |
| 8. | Analysis commenced on: 28.02.2024 | 9. | Analysis Completed on: 28.02.2024 | | |
| 10. | Reporting Date: 11.03.2024 | 11. | Discipline: Chemical | | |
| 12. | Sample Collected By: Mr.Ronak Patel | 13. | Group: Atmospheric Pollution | | |
| 14. | Sampling Procedure: IS Method | 15. | Product: Ambient Air | | |
| 16. | Description of Sample: | Sampling Bottles: Sealed <input checked="" type="checkbox"/> | Filter Paper: Packed <input checked="" type="checkbox"/> | Bladder: Clamped <input checked="" type="checkbox"/> | |
| 17. | Environment Condition: | Temp: Normal | Humidity: Medium | Wind speed: Smooth | Cloud cover: Clear sky |
| | Rain: No Rain | Wind Direction: Up wind | Wind blowing from: - | Station category: Industrial | |
| 18. | Sampling Received Date: 28.02.2024 | | | | |

TEST RESULTS

| S. No. | Parameters | Unit (SI) | Results | Specification / SPCB Norms / BIS Standards | Method Used |
|--|------------|--------------------|-----------------------------------|--|--------------------|
| 1. | CO | µg /m ³ | : 0.778 | 02 | Gas Chromatography |
| Remark : | | | | | |
| Authorized By -  | | | | | |
| Name : Sapana Amin | | | Designation : Lab Incharge | | |

- NOTE :**
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 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
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-----END OF REPORT-----

| TEST REPORT FORMAT - AMBIENT | | |
|------------------------------|------------------------|---------------------------|
| DOC. NO.: LAB-FMT-051 | Issue No.: 02 | Revision No.: 03 |
| Effective Date.: 01.03.2021 | Issue Date: 01-01-2015 | Revision Date: 01.03.2021 |



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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - NOISE

REPORT NO.: FEB24/174/03 (ULR- TC70992400005146F)

SAMPLE DETAILS

| | | | |
|-----|--|-----|---|
| 1. | Name & Address of Client: M/s. Hindalco Industries Limited. (COPPER IGT WAGHODIA) Plot NO. 187/P-P/1/B/2,P/1B/3,P1/B5,P1/B/6,187/P Vaghodia Industrial Estate, Village: Vaghodia, Dis: Vadodara-391760, Gujarat, India. | | |
| 2. | Sample ID: 174FB24N001 | 3. | Client Representative: Ms.Mitali Khuman |
| 4. | Sampling Date: 26.02.2024 | 5. | Sample Collected By: Mr.Ronak Patel |
| 6. | Analysis commenced on: 26.02.2024 | 7. | Analysis Completed on: 26.02.2024 |
| 8. | Reporting Date: 11.03.2024 | 9. | Sampling Location: -- |
| 10. | Discipline: Chemical | 13. | Sample Received Date: 26.02.2024 |
| 11. | Group: Atmospheric Pollution | | |
| 12. | Product: Ambient Noise Levels | | |

TEST RESULTS

| S. No. | Location | Day | | Night | | Method |
|--------|----------|----------|---------------|-------|---------------|---------------|
| | | Time | Reading dB(A) | Time | Reading dB(A) | |
| 1. | Boundary | 13:00 hr | 61.4 | - | - | IS 9989: 1981 |

Remark :

Authorized By - *Sapana Amin*

Name : Sapana Amin

Designation : Lab Incharge

- NOTE :
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 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

| TEST REPORT FORMAT - NOISE | | |
|-----------------------------|------------------------|---------------------------|
| DOC. NO.: LAB-FMT-087 | Issue No.: 01 | Revision No.: 02 |
| Effective Date.: 01.07.2020 | Issue Date: 01-05-2015 | Revision Date: 01.07.2020 |



BEIL INFRASTRUCTURE LIMITED
(Formerly Known As Bharuch Enviro Infrastructure Limited)

13TH JULY, 2023

TO,
HINDALCO INDUSTRIES LIMITED (VADODARA UNIT)
PLOT NO.187/P & 187/P/1/3,
WAGHODIA, INDUSTRIAL AREA,
WAGHODIA, VADODARA - 391760.

Sub: Provisional Membership Certificate for Common Solid Waste Disposal Facility.

Dear Sir,

We hereby certify that you have become member for the common Solid/Hazardous waste disposal facility developed by **BEIL INFRASTRUCTURE LIMITED** (Formerly known as Bharuch Enviro Infrastructure Ltd), at GIDC, Dahej. You have booked solid waste quantity of **25 MT/Year**. You have also paid your capacity commitment charges. Your Membership No. is **OTH/1197**.

Waste will be accepted after submitting valid authorization of GPCB.

- 1) **Total TSDF Capacity of BEIL Dahej:** 1900000 MT
- 2) **Total Consented Capacity:** 1900000 MT
- 3) **Total Occupied Capacity:** 1130017.669 MT
- 4) **Spare Capacity:** 0769982.331 MT

Thanking you,

Yours faithfully,
For, BEIL Infrastructure Limited
(Formerly Known as Bharuch Enviro Infrastructure Ltd)


AUTHORISED SIGNATORY





28TH December 2023

To,
IRO MoEF&CC,
Ministry of Environment, Forest and Climate Change,,
Integrated Regional Office, Gandhi Nagar A wing- 407 & 409,,
Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar-382010,
Gandhinagar, Gujarat

Sub: Advertisement of Environmental Clearance for setting up of manufacturing plant of "Metallurgical Industries" at Plot No. 187/P & 187/P/1/B/2, 187/P & 187/P/1/B/3, 187/P & 187/P/1/B/4, 187/P & 187/P/1/B/5 & 187/P & 187/P/1/B/6 Waghodia GIDC, Taluka: Waghodia, District: Vadodara, Gujarat

Dear Sir,

With reference to above subject we would like to inform you that Hindalco Industries Limited has received the Environmental Clearance for setting up of manufacturing plant of "Metallurgical Industries" at Plot No. 187/P & 187/P/1/B/2, 187/P & 187/P/1/B/3, 187/P & 187/P/1/B/4, 187/P & 187/P/1/B/5 & 187/P & 187/P/1/B/6 Waghodia GIDC, Taluka: Waghodia, District: Vadodara, Gujarat from SEIAA Gujarat vide Environmental Clearance No. : SEIAA/GUJ/EC/3(a)/1613/2023 Dated 13th Dec 2023.

The advertisement for the same has been given in English Newspaper "Indian Express" and Gujarati News paper "Divya Bhaskar on 17th December 2023. Copy of the Advertisement is attached herewith for your ready reference.

Thanking You,

Yours Faithfully

Authorized Signatory



HINDALCO INDUSTRIES LIMITED
(Unit: Waghodia)
Plot No: 187/P&187/P/1/B2-B6, GIDC,
Waghodia, Vadodara,
Gujarat, 382010, India

Registered Office: 21st Floor, One International Center,
Tower 4, Prabhadevi, Near Prabhadevi Railway Station,
Senapati Bapat Marg, Mumbai 400013
Telephone +91 22 6947 7000 / 6947 7150

Website
Email

www.hindalco.com
hindalco@adityabirla.com



28TH December 2023

To,
Vadodara Municipal Corporation,
Khanderao Market Building,
Rajmahal Road,
Vadodara - 390209

Sub: Advertisement of Environmental Clearance for setting up of manufacturing plant of "Metallurgical Industries" at Plot No. 187/P & 187/P/1/B/2, 187/P & 187/P/1/B/3, 187/P & 187/P/1/B/4, 187/P & 187/P/1/B/5 & 187/P & 187/P/1/B/6 Waghodia GIDC, Taluka: Waghodia, District: Vadodara, Gujarat

Dear Sir,

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Thanking You,

Yours Faithfully

Authorized Signatory

o/c
A
5/12/2023

5/12/2023

HINDALCO INDUSTRIES LIMITED
(Unit: Waghodia)
Plot No: 187/P&187/P/1/B2-B6, GIDC,

Registered Office: 21st Floor, One International Center,
Tower 4, Prabhadevi, Near Prabhadevi Railway Station,
Senapati Bapat Marg, Mumbai 400013

Website
E-mail

www.hindalco.com
hindalco@adityabirla.com



28TH December 2023

To,
The District Collector,
District Collector Office,
Kothi Building, Raopura
Mandvi, Vadodara,
Gujarat – 390001

Sub: Advertisement of Environmental Clearance for setting up of manufacturing plant of "Metallurgical Industries" at Plot No. 187/P & 187/P/1/B/2, 187/P & 187/P/1/B/3, 187/P & 187/P/1/B/4, 187/P & 187/P/1/B/5 & 187/P & 187/P/1/B/6 Waghodia GIDC, Taluka: Waghodia, District: Vadodara, Gujarat

Dear Sir,

With reference to above subject we would like to inform you that Hindalco Industries Limited has received the Environmental Clearance for setting up of manufacturing plant of "Metallurgical Industries" at Plot No. 187/P & 187/P/1/B/2, 187/P & 187/P/1/B/3, 187/P & 187/P/1/B/4, 187/P & 187/P/1/B/5 & 187/P & 187/P/1/B/6 Waghodia GIDC, Taluka: Waghodia, District: Vadodara, Gujarat from SEIAA Gujarat vide Environmental Clearance No. : SEIAA/GUJ/EC/3(a)/1613/2023 Dated 13th Dec 2023.

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Yours Faithfully

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Plot No: 187/P&187/P/1/B2-B6, GIDC,
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Registered Office: 21st Floor, One International Center,
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Telephone +91 22 694 7 7000 / 6947 7150
IE - 101226047 7001/6047 7000

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Corporate Identity No. 1 27020MH1958PI C011238