ASAV P. GADHVI MEMBER SECRETARY SEIAA (GUJARAT)



GOVERNMENT OF INDIA MOEF & CC STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY GUJARAT

No. SEIAA/GUJ/EC/3(a)/ 1613 /2023

Date: 1 3 DEC 2023

By R P A D

Time Limit

Sub: Environment Clearance 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/1/B/5 & 187/P/1/B/6, Waghodia GIDC, Taluka: Waghodia, District: Vadodara, Gujarat. In Category 3(a) of Schedule annexed with EIA Notification dated 14/09/2006.

Ref: Your Proposal No. SIA/GJ/IND1/449535/2023.

Dear Sir,

This has reference to your application along with EIA report dated 23/10/2023 submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance 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/1/B/6, Waghodia GIDC, Taluka: Waghodia, District: Vadodara, Gujarat. It is a proposed unit for manufacturing following products, which falls in the category - 3(a) of the schedule of the EIA Notification-2006:

S. No.	Name of Product	CAS No.	Quantity	End use of Product
1	Copper Tube	7440-50-8	50,000	General applications
2	Copper Rod, Copper Alloy Rod, Copper Wires & Copper Alloy Wires	7440-50-8	24,000	within the electrical equipment
	Total (TPA)		74,000	

Brief Note of Product Profile:

- 1. No of Manufacturing Plants: 01
- 2. Brief Note regarding number of Products to be manufactured considering plant capacity: Proposed plant will be utilized for the manufacturing of the list of the products mentioned in the product profile

The project activity is covered in 3(a) and is of 'B' Category. Public Hearing was carried out by Gujarat Pollution Control Board dated 06.11.2023.

The SEAC, Gujarat vide their letter dated 24/11/2023 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on 27/10/2023. The proposal was considered by SEIAA, Gujarat in its meeting held on 04/12/2023 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A.CONDITIONS:

A.1SPECIFIC CONDITION:

- 1. PP shall take safety measures for workers against heat shocks, bums, flashing of fire and handling of heavy equipments and heavy items of steel etc.
- 2 Proponent shall comply all points of public hearing proceedings.
- 3. PP shall obtain fire permissions from competent authority
- 4. PP shall provide adequate APC measures for controlling PM, SOx etc.
- 5 PP shall comply with Emergency measures and prepare action for any accident.
- 6. PP shall prepare on site emergency plan with relevant details.
- 7 PP shall provide recycling system for reusing of treated wastewater in premises.
- 8. PP shall submit details for various mitigative measures for controlling dusting during handling and transportation of slag and scrap.
- 9. PP shall carry out preventive maintenance schedule and plan to be included.
- 10. PP shall not carry out any expansion or increase in production capacity (74000 MTA) without appropriate

Office: Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010 Page 1 of 10

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permission from competent authority.

- 11. All the issues raised during public hearing and commitments made by the Project proponent shall be complied in letter and
- 12. The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.
- 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.
- 14. The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.
- 15. All measures shall be taken to avoid ground water and soil contamination within premises.
- 16. PP shall adopt renewable energy like installation of solar panel or solar light etc. for proposed project.
- 17. PP shall install secondary fume extraction at induction furnace area, as per details submitted by PP.
- 18. Unit shall install CEMS [Continuous Emission Monitoring System] in line to CPCB directions to all SPCB vide letter no. B-29016/04/06PCI-1/5401 dated 05/02/2014 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 server, which can be assessable by the GPCB/CPCB on real time basis. [For Small/Large/Medium (Red Category) & Whichever (Air emission & Effluent discharge) is applicable].

A. 2 WATER:

- 19. Total water requirement for the project shall not exceed 1808 KLD. Unit shall reuse 292 KLD of treated effluent within premises. Hence, fresh water 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.
- 20. The industrial effluent generation from the project shall not exceed 285 KLD.
- 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).
- 22. Domestic wastewater generation shall not exceed 22 KL/day for proposed project 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.
- 23. During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.
- 24. Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
- 25. Complete Zero Liquid Discharge [ZLD] status shall be maintained all the time and there shall be no drainage connection from the premises.
- 26. Unit shall provide STP and ETP with adequate capacity.
- 27. The unit shall provide metering facility at the inlet and outlet of ETP and maintain records for the same.
- 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.

A.3AIR:

Unit shall not exceed fuel consumption for Copper Tube - Melting and Casting Furnace, Metal transfer Launder, Copper/Copper Alloy - Melting & Casting furnace and D G Set as mentioned below.

Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)	Remarks
1	Copper Tube - Melting and Casting Furnace Capacity of each set 29098 TPA (2 set) Total capacity: 58196 TPA	30	Electrical	124800 Kwh/day	PM, NO _x	Bag Filter	-
2	Metal transfer Launder (4 nos.)	1.7	Natural gas	10 m ³ /hrper launder			-

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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, SO _x , NO _x	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/Copper Alloy Melting & Casting furnace and D G Set.
- 31. Unit shall provide adequate APCM with flue gas generation sources to achieve the norms prescribed by GPCB.
- 32. Unit shall provide adequate APCM with process gas generation sources as mentioned below.

Sr No	Specific Source of emission (Name of the Product & 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. Thefugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety& Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.
 - Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.
 - > Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.
 - A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.
- 34. Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.
- Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx and Fumes—shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.

A 4 SOLID / HAZARDOUS WASTE:

36. All the hazardous/ solid waste management shall be taken care as mentioned below.

Sr. 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	Blow down 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-

Office: Gujarat Pollution Control Board, "Paryavaran Bhavari" Sector-10 A, Gandhinagar-382010

Page 3 of 10

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						processing
6		Filter Media	ETP, STP, RO Plant, Compressor	8.2	1	Disposal through approved agencies Co-processing in cement plant
7	Re	efractory waste in shutdown	Furnace		65	Disposal through approved agencies
8		mposite/combined erial – 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	1	d Containers (Oil & ase drum, barrels)	Lubricating grease & Oil, Cleaning Oil	33.1	84 (nos) Sale to Authorized recycler Agency
11	Flue gas dust &others		Furnace		1	Disposal through approved agencies
12	Wor	n Graphite Crucible	Furnace		4	Disposal through approved agencies
13	Graphite Dust		Furnace		1	Disposal through approved agencies
			NON-HAZARDOUS WAS	TE MANAGE	MENT MATE	RIX
	Sr. no.	Type/Name of non-hazardous waste Wooden Waste	Specific Source of generation (Name of the Activity, Product etc.)	Quanti (MT/Ar	nnum)	Management of NHW
	1	vvoogen vvaste	Packing Material 36 Disp		Disposal through approved	

37. Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardou's and Other Wastes (Management and Transboundary Movement) Rules 2016. (if applicable)

75

agencies

Use as manure in

Page 4 of 10

38. Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for displaced of Incinerable & land fillable wastes before sending to CHWIF & TSDF sites respectively. (if applicable)

- 39. The project proponent has to obtain membership of TSDF site & CHWIF before obtaining CTO of GPCB. (if applicable)
- 40. STP studge shall be collected and used as manure in gardening activity or send to TSDF ste for landfilling.

STP

41. Entire quantity of process slag generated from manufacturing plant shall be either used for land filling or sold to actual end users and record shall be maintained.

A. 5OTHER:

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STP SLUDGE

- 42. The project proponent shall carry out the activities of amount of Rs. 5.58 Crores (Rooftop Solar panel for Anganwadi, Primary schools and health centres at Junarampura, Limda, Dolar, Alva, Gajadara and Nava Ajva, Solar street lights for self-sustaining Green technology at Limda, Ishwarpura, Waghodiya, Gajadara and Nava Ajva, Rooftop rain water harvesting at Junarampura, Limda, Dolar, Alva, Gajadara and Nava Ajva, Community tree Plantation at Kamlapura, Limda, Wagodhiya, Chithad, Dholar, Vejalpur and Deepening and beautification of village ponds at Vejalpur, Tavra, Madodhar, Akhadiyapura, Limda, Ishwarpura, Timbi) proposed under CER and it shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020. This shall be monitored 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.
- 43. As proposed, at least Rs. 0.03 Crores shall be allocated for the conservation plan Schedule- I species. (MoEF&CC) (In case of Sch-I species)
- 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 completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit.
- 45. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. Kadam Environment Consultants and submitted by the project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter

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B.GENERAL CONDITIONS:

B.1 CONSTRUCTION PHASE:

- 46. Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.
- 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.
- 48. All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.
- 49. First Aid Box shall be made readily available in adequate quantity at all the times.
- 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 amendments. Local bye-laws of concern authority shall be complied in letter and spirit.
- 51. Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.
- 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 standards.
- 53. Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.
- 54. All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site
- 55. Excavated earth to be generated during the 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 the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighbouring communities.
- 56. Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete [RMC] and lead free paints in the project.
- 57. Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.
- 58 "Wind breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided.
- 59 We uncovered vehicles carrying construction material and waste shall be permitted."
- 60. "No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left."
 - 61. Roads leading to or at construction site must be paved and blacktopped (i.e. metallic roads).
 - 62. No excavation of soil shall be carried out without adequate dust mitigation measures in place.
 - 63. Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.
 - 64. Grinding and cutting of building materials in open area shall be prohibited.
 - 65. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
 - 66. Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).

B.2 OPERATION PHASE:

B.2.1 WATER:

- 67. The water meter shall be installed and records of daily and monthly water consumption shall be maintained.
- 68. All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, 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 & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.
- 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.
- 71. Stack/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.
- 72. Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the

Office: Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010 Page 5 of 10
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GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.

73. All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.

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 wastes.
- 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.
- 76. The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)
- 77. Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.
- 78. The design of the Trucks/tankers shall be such that there is no spillage during transportation
- 79. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF
- 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.

B.2.4 SAFETY:

- 81. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.
- 82. Sufficient no. of fire extinguishers shall be provided near the plant and storage area.
- 83. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.
- 84. Only flame proof electrical fittings shall be provided in the plant premises.
- 85. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.
- 86. Personal Protective Equipments like heat resistant suit shall be provided to workers and its usage shall be ensured and supervised.
- 87. First Aid Box shall be made readily available in adequate quantity.
- 88. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
- 89. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.
- 90. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.
- 91. Necessary permissions from various statutory authorities like Factory Inspectorate and others shall be obtained prior to commissioning of the project if applicable.
- 92. The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963
- 93. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Haltar dous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of haltardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities that be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.
- 94. Main entry and exit shall be separate and clearly marked in the facility.
- 95. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.
- 96. Storage of flammable chemicals shall be sufficiently away from the production area.
- 97. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
- 98. All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.
- 99. Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.
- 100.All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.
- 101.Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
- 102. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
- 103.Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.

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B.2.5 NOISE:

- 104. The overall noise level in and around the plant area shall be kept well 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 confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.
- 105. Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment.
- 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.
 - Manufacturers / suppliers of major noise generating machines / equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to make required design modifications 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
 - Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact.
 - ✓ Noise suppression measures such as enclosures, buffers and / or protective measures shall be provided.
 - ✓ Employees shall be provided with ear protection measures like earplugs or earmuffs.
 - Proper oiling, lubrication and preventive maintenance shall be carried out of the machineries and equipments to reduce noise generation.
 - Construction equipment generating minimum noise and vibration shall be chosen.
 - Ear plugs and/muffs shall be made compulsory for the construction workers working near the noise generating activities / machines / equipment.
 - Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.
 - ✓ Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.
 - ✓ Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.

B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

- 107. The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.
- 108. The company shall undertake various waste minimization measures such as :
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw materials substitutes.
 - c. Use of automated and close filling to minimize spillages.
- d. Use of close feed system into batch reactors.
 - e. Venting equipment through vapour recovery system.
 - f: Use of high pressure hoses for cleaning to reduce wastewater generation.
 - g. Recycling of washes to subsequent batches.
 - h. Recycling of steam condensate.
 - i. Sweeping / mopping of floor instead of floor washing to avoid effluent generation.
 - j. Regular preventive maintenance for avoiding leakage, spillage etc.

B.2.7 GREEN BELT AND OTHER PLANTATION:

- 109. The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, 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 the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.
- 110 Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.
- 111. The PP shall develop green belt within premises (55538 Sq. m i.e. 33 % of the total plot area) as submitted before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.

B.3 OTHER CONDITION:

- 112.PP shall carry out the safety audit and Risk Assessment Report as per the prevailing guidelines of safety.
- 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.
- 114 EMP should invariably include provisions for environmental Monitoring and measures for noise pollution control measures.
- 115.in EMP proponent should seperately indicate majors of occupational health, fire and safety measures.
- 116 Prior EC is granted is subject to the proponent receiving all statutory permission / clearances / certificates and membership of respective agencies / authorities which ever applicable. Proponent shall inform progress from time to time, in six monthly compliance report to MOEFCC / SEIAA / SEAC/ GPCBfailing to which this provisional EC will stand withdrawn

Office: Gujarat Pollution Control Board, "*Paryavaran Bhavari*" Sector-10 A, Gandhinagar-382010 Page 7 of 10 Phone No.:- (079) 232-32152,232-41514 Fax No.:- (079) 232-22784

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- 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.
- 118.Non-hazardous waste data shall be informed to GPCB time to time so as to make an assessment and tie-up with industry for generating sustainable power from the waste.
- 119.EMP should include STP and detail cost including maintenance, transportation of waste water to CETP / CMEE etc as well as transportation cost or transit cost.
- 120.In LDAR preventive and predictive maintenance plan.
- 121.In LDAR leakage component, source of equipment leak, detention method should be given in table form
- 122.In storage component should be shown separately in terms whether inflammable, toxic, corrosive, reactive etc.
- 123.In case of Fly Ash generation its management and disposal should be as per Government of India Notification and 100 % utilization should be ensured.
- 124.Project proponent shall install all environment management systems as per the CPCB/GPCB directives regarding the effluent discharge and air emission in working condition.
- 125.Project proponent shall display the copy of Environment Clearance at the site prominently.
- 126.Project proponent shall prepare and follow regular and preventive maintenance plan. The copy of same shall be submitted to SEIAA.
- 127. Project Proponent will have to display the safety procedure in working area.
- 128. The project proponent shall obtain all required permissions for safety, health and fire from competent authorities like PESO/Fire Authority etc. and intimate SEIAA.
- 129.Project Proponent will intimate SEIAA/SEAC/GPCB after obtaining the membership of common facilities like CETP / TSDF / CHWIF / CMEE / Common Spray Dryer as the case may be.
- 130.Extra care will be taken by PP to avoid any accidental blast in boiler, reactor or any machinery in the plant.
- 131. Environment monitoring, training and disaster management plan should be undertaken and complied at regular interval.
- 132.Integrated Regional Office of MoEF&CC Gandhinagar and GPCB will monitor all environment, safety & health norms as per the prevailing rules.
- 133.The PP has to maintain the logsheets / registers / manifest / gate pass for discharge through tankers and SCADA system for pipeline discharge for the waste water 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 leagal action in the cases of non compliance.
- 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 (Sr. no. XX).
- 135.The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC'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 the monitoring report shall be submitted to the regional office of MoEFCC 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.
- 136.Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used or the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, 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 taken up either by the Industrial Association or GIDC or GPCB or any such authority decided for this purpose by the Govt. / GIDC.
- 138.Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street highting in addition the provision for solar water heating system shall also be provided.
- 139. The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.
- 140.All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.
- 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 for the environmental protection and management.
- 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 the desired efficiency of the control equipment has been achieved.
- 143. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB). State Government and any statutory authority.
- 144. During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
- 145. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
- 146.Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.

Office: Gujarat Pollution Control Board, "Paryavaran Bhavari" Sector-10 A, Gandhinagar-382010 Page 8 of 10 Phone No.:- (079) 232-32152,232-41514 Fax No.:- (079) 232-22784

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- 147.No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
- 148. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 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 amendments and rules.
- 149. The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.
- 150. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.
- 151. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- 152. The applicant shall inform the public that the 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 at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
- 153.It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
- 154. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- 155. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
- 156. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
- 157. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.
- 158. The project authorities shall inform the GPCB, Regional Office of 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.
- 159. This environmental clearance is valid for Ten years from the date of issue.
- 160.Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 101 Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.

8.4 COMPLIANCE OF ENVIRONMENT CLEARANCE/REPORTING/ADMINISTRATION/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 newspapers within seven days, about the Environment Clearance order accorded.
- 163.Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to 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 the Government.
- 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 environment clearance conditions.
- 166.In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the Environment Clearance accorded.
- 167. Any person including the project proponent affected by this Environment 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 Environment Clearance as prescribe under section 16 of National Green Tribunal Act 2010.

Office: Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010 Page 9 of 10 Phone No.:- (079) 232-32152,232-4,1514 Fax No.:- (079) 232-22784

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168.All complaints and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses (a) msseiaagj@gmail.com& (b) seacgujarat@gmail.com

(ASAV P. GADHVI) Member Secretary

Issued to:

M/s. Hindalco Industries Limited

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

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.

2. The Additional Chief Secretary, Forests & Environment Department, Govt. of Gujarat, Block 14, 8th floor, Sachivalaya. Gandhinagar-382010.

3. The Chairman, Central Pollution Control Board , Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032

4. Scientist C, Integrated Regional Office, Ministry of Environment and Forests, Aranya Bhavan, Sector-10, Gandhinagar – 382010.

5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.

6. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010

7. Select File

Office: Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010

Page 10 of 10

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