

# **Government of West Bengal**

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# WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan, 10A, Block LA, Sector III Salt Lake City, Bidhan Nagar, Kolkata – 700 106, INDIA

Website: www.wbpcb.gov.in, e-mail: wbpcbnet@wbpcb.gov.in

Validity Period :28/03/2024 To 31/03/2031

Category: RED

**Application Type: CTE** 

CTE No.: WBPCB/4860475/2024 Date: 28/03/2024

Sub: Consent to Establish (CTE) under Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended.

Ref.: Application No. 4860475

M/s MAAN STEEL & POWER LIMITED

58/1, SARAT BOSE ROAD, KOLKATA - 700025.

The West Bengal Pollution Control Board (hereinafter referred to as the State Board) hereby grants Consent to Establish (CTE) from environmental point under Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended and rules and orders made thereunder for proposed expan unit of MAAN STEEL & POWER LIMITED at JL NO. - 38, PLOT NO. - 58, 59, 50/2039, 58/2041, 120, WARD NO. - 9, JAMURIA INDUSTRIAL ESTATE, MOUZA - IKRA, P.O. - NANDI, P.S. - JAMURIA, PASCHIM BARDHAMAN -**713362** for the following activities:

WEST BENGAL

Sl.No.	Name of Activitiy,Product and/or By-Product	Production Capacity
1	CAPTIVE POWER PLANT 1X20 TPH WHRB, 1X20 TPH AFBC AND 1X40 TPH AFBC	15 Megawatt
2	PELLET PLANT 2X0.6 MTPA	1200000 Metric Tonnes/Year
3	MS BILLET FROM 2X20T IF, 1X20T LRF, 1X15T AOD AND CASTER 2X6/11M	126000 Metric Tonnes/Year
4	SONGE IRON FROM DRI KILN 1X200TPD	60000 Metric Tonnes/Year

Total cost of the Project (in Lakhs)	35600.0
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## (A) General Conditions:

- (1) The quality of sewage and industrial effluent to be discharged from the factory shall satisfy the permissible limits as per norms and Environment (Protection) Rules 1986.
- (2) The unit shall apply to the State Board for Consent to operate according to the provisions of the Water (Prevention & Control of Pollution) Act, 1974 as amended and the Air (Prevention & Control Pollution) Act, 1981 as amended prior to commencement of activities of the unit.
- (3) The unit shall comply with the following Environmental Acts and Rules and its amendment as applicable
  - (i) The Water (Prevention and Control of Pollution) Act, 1974.
  - (ii) The Air (Prevention and Control of Pollution) Act, 1981
  - (iii) The Environment (Protection) Act, 1986
  - (iv) The Public Liability Insurance Act, 1991
  - (v) The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
  - (vi) The Ozone Depleting Substances (Regulation and Control) Rules, 2000
  - (vii) The Batteries (Management and Handling) Rules, 2022

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- (viii) The Noise Pollution (Regulation and Control) Rules, 2000
- (ix) The Bio-medical Wastes Management Rules, 2016
- (x) The Hazardous Wastes (Management and Transboundary Movement) Rules, 2016
- (xi) The Plastic Waste Management Rules, 2016
- (xii) The Solid Waste Management Rules, 2016
- (xiii) The E-Waste (Management Rules), 2022
- (xiv) The Construction and Demolition Waste Management Rules, 2016
- (4) The State Board reserves the right to review, amend, suspend, revoke etc. this consent for establishment and the same shall be binding on the unit.
- (5) The unit shall obtain permission/clearance from the other competent authorities, as applicable and such permissions may be required at the time of submitting application for Consent to operate.
- (6) The unit shall abide by the stipulations as may be prescribed by any authority / local body / government departments etc.
- (7) Suitable measures to treat the effluent and emission shall be adopted in order to reduce the pollution load so that the quality of the effluent and emission from the unit always conforms to the relevant permissible standards.
- (8) No equipment/machinery, emission and effluent generation/discharge source etc. shall be installed/modified without prior approval of the State Board.

## (B) Special Conditions:

Please refer to Annexure I, II & III (Pages 1-8).

Any Violation of the aforesaid Conditions shall entail cancellation of this Consent to Establish

For and on behalf of West Bengal Pollution Control Board



Minjan

28/03/2024

Chief Engineer Environment Impact Management Cell

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Special conditions issued to **M/s. Maan Steel & Power Limited** for proposed enhancement of Sponge Iron Production from 117,000 to 177,000 TPA, Billet production from 192,000 to 318,000 TPA, Power generation from 12 to 27 MW and installation of 1.2 MTPA Pellet Plant at Jamuria Industrial Estate, Mouza- Ikhra, PO – Nandi, Dist – Paschim Bardhaman, West Bengal (Expansion Project).

# Salient features of the project

# Unit configuration and capacity

Plant Equipment/ Facility	Existing facilities							Proposed Units		Final (Existing + Proposed)		
	Total (A+B)		Implement ed (A)		Unimplemented (B)		As per CTO					
	Config.	Cap. TPA	Config.	Cap. TPA		Cap. TPA	Config.	Сар.	Config.	Cap. TPA	Config.	Cap. TPA
Sponge Iron Plant	2x95 TPD 4x100 TPD DRI kiln	57000 120000	2x95 TPD 1x200 TPD DRI kiln	117 000	2x1 00 TP D DR I Kil n	600	2x95 TPD 1x200 TPD DRI Kiln	1078 0 MT/ month	1x20 OTP D DRI Kiln	600 00	2x9 5 TP D 2x2 00 TP D DRI Kiln	177 000
Induction Furnace	4x15 Ton		4x15 T				4x15 T	19,95	2x20 Ton		4x15 T 2x2 0 T	Billets:
Ladle Refining Furnace	2x30	Billets: 192 000		Billets : 192 000	2x3 0 Ton LR F			0 Ton/ mont	1x20 Ton	Bille ts: 126	1x2 0 Ton	318 000
Argon Oxygen Degassing	Ton				/A OD			h	1x15 Ton	000	1x1 5 Ton	
Billet Caster	2 strand 6/11 m		2 strand 6/11 m				2 strand 6/11 m		strand 6/11 m		4 Strands 6/1 1m	
Rolling Mill	550 TPD	180000	550 TPD	180000			550 TPD	16,730 Ton/ month			550 TPD	180000
WHRB	2x10 TPH 2x20 TPH	Power : 24 M W	2x10 TPH 1x20 TPH	Power : 12 M W	1x2 0 TP H	Power : 12 M W	2x10 TPH 1x20 TPH	Power :12 MW	1x20 TPH	Pow er: 15 MW	2x1 0 TP H 2x2 0 TPH	Pow er: 27 MW (W HR B - 12
AFBC	1x50 TPH		1x30 TPH		1x2 0 TP H		1x30 TPH		1x20 TPH 1x40 TPH		1x30 TPH 1x20TP H 1x40TP	MW + AFBC- 15 MW)
Pellet Plant									2x0.6 MTPA	Pell ets: 120 0000	2x0 .6 MTPA	Pellets: 1200000
Ferro Alloy Plant	2x9 MVA	Fe- Mn /Si- Mn : 30000			2x9 MV A	Fe- Mn /Si- Mn : 30,000						



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Plant Equipment/Facility	Unit Operations	Equipment Control System	No. of equipment	Stack Height		
	DRI Kiln 1 (95 TPD)	ESP	1	20		
	DRI Kiln 2 (95 TPD)	1	30			
	DRI Kiln 3 (200 TPD)	ESP	1	45		
	DRI Kiln 4 (200 TPD)	ESP	1	45		
	Cooler Discharge for Kiln 2 X 95 TPD (Existing)	BAG FILTER	1	30		
Sponge Iron Plant	Cooler Discharge for Kiln 2 X 200 TPD & Product House (Existing + Proposed)	BAG FILTER	1	30		
	Separation House & Intermediate Bin for Kiln 2X95 TPD & 2X200 TPD Kiln (Existing & Proposed)	BAG FILTER	1	30		
	Coal Crushing Unit (Existing)	BAG FILTER	1	28		
	Stock House - Existing & Proposed	BAG FILTER	2	28		
	Iron Ore Handling Plant - Existing & Proposed	BAG FILTER	1	28		
	Induction Furnace - 15 MT (Existing)	BAG FILTER	1	22		
	Induction Furnace - 15 MT (Existing)	BAG FILTER	1	33		
	Induction Furnace - 15 MT (Existing)	BAG FILTER	1	29		
Induction Furnace	Induction Furnace - 15 MT (Existing)	BAG FILTER	1			
	Induction Furnace - 20 MT (Proposed)	BAG FILTER	1	20		
	Induction Furnace - 20 MT (Proposed)	BAG FILTER	1	30		
Ladle Refining Furnace	LRF - 20 MT (Proposed)	Dog Silkon	1	20		
		Bag Filter	1	30		
Argon Oxygen Degassing	AOD - 15 MT (Proposed)	BAG FILTER	1	30		
	AFBC 1x30 TPH (Existing)	ESP	1	45		
Captive Power Plant	AFBC 1x20 TPH (Proposed)	ESP	1	45		
	AFBC 1x40 TPH (Proposed)	ESP	1	45		
	Coal Handling Area of CPP (Existing)	Bag Filter	1	28		
	Coal Handling Area of CPP (Proposed)	Bag Filter	1	28		
D II + DI - :	Grate Kiln	ESP	1	45		
Pellet Plant	Proportioning system	Bag Filter	1	40		
	Grinding Unit	Bag Filter	1	40		



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#### **Specific Condition:**

- i. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted.
- iii. PP shall complete acquisition of balance project area and conversion for industrial purpose prior to commencement of project.
- iv. The nearest habitation is Ikhra village which is at a distance of 0.15 km in South direction of the project site. Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include this location in its environmental monitoring programme.
- V. There is a Pond near Ikhra village at a distance of 0.085 km in SE of the project site. Also, there are other water bodies such as river within the study area of 10 km of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented. The PP shall ensure that there shall not be any discharge to the pond and in the adjacent area.
- vi. The water requirement of 2024 m³/day shall be sourced from the ADDA (1830 m³/day) and recycled water (194 m³/day) after obtaining necessary permission from the Competent Authority.
- vii. Three tier Green Belt shall be developed and maintained in at least 33% of the project area with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards Ikhra village.
- viii. All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 5.0 Crores shall be strictly implemented.
  - ix. PP shall adopt Village Ikhra and undertake village adoption programme, prepare and implement the action plan to develop them into model villages.
  - X. The PP shall improve the housekeeping at the project site as committed.



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#### I. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- iii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
  - ix. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
  - x. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
- xi. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
- xiii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
- xiv. The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
- xv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.



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- xvi. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
- xvii. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
- xviii. Following additional arrangements to control fugitive dust shall be provided:
  - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
  - b. Proper covered vehicle shall be used while transport of materials.
  - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
  - xix. During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
  - xx. The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.
  - xxi. Online stack monitoring system for IF and RHF shall be installed.
  - xxii. Low NOx Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.

#### II. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- iv. Water meters shall be provided at the inlet to all unit processes in the plants.
- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
- vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.



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- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- ix. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
- x. Air Cooled condensers shall be used in the captive power plant.

## III. Noise monitoring and prevention

- Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- iii. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

#### IV. Energy Conservation measures

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.
- iii. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- iv. Practice hot charging of slabs and billets/blooms as far as possible.
- v. Ensure installation of regenerative type burners on all reheating furnaces.
- vi. The project proponent shall provide waste heat recovery system on the DRI Kilns.
- vii. The dolochar generated shall be used for power generation.
- viii. Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
  - ix. The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

## V. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.
- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization.
- iv. The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021.



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v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

#### vi. Solid waste utilization

- a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
- b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
- c. Used refractories shall be recycled as far as possible.

#### VI. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
- ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

#### VII. Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

#### VIII. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and bring into focus to infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders.



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- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Performance test shall be conducted on all pollution control systems every year.

#### B. General:-

- 1) The industry should obtain land conversion certificate for the entire project from the competent authority before starting activity.
- 2) No construction is permitted on land parcels not under the possession of the project proponent.
- 3) Noise Control Ambient noise & D.G. Set noise level not to exceed the permissible limit.
- 4) The standards / guidelines for control of noise from stationary Diesel generator sets prescribed under notification of Ministry of Environment & Forest, Govt. of India, G.S.R.371(E), [17/5/2002] and its amendments should be followed.
- 5) Fire License to be obtained from competent authority.
- 6) The unit should obtain authorization from this Board under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- 7) Good housekeeping to be maintained.
- 8) No expansion / modification to be carried out without permission from this Board.
- 9) The unit should obtain Consent-to-Operate from the Board before starting manufacturing activities.
- 10) All other statutory clearances / licenses from Competent Authorities, as applicable, to be obtained.
- 11) All conditions of the Environmental Clearance issued by MoEF&CC, GoI vide EC Identification No. EC23A1003WB5951952N, File no. IA-J-11011/695/2009-IA-II(IND-I) dated 20.02.2024 to be complied with.
- 12) This NOC is valid up to **31.03.2031** for setting up the proposed project.

