



JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004

Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No. JSPCB/HO/RNC/CTO-11688208/2022/345

Dated : 2022-03-25

Consent to operate (CTO) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

1. Application (s) dated 2022-02-25 of BIHAR FOUNDRY & CASTINGS LTD. UNIT: H.A. SPONGE & POWER, Occupier Name :HARI KRISHNA BUDHIA for consent under section 25 (1)(b)/25 (1) (c)/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(1) of the Air (Prevention & Control of Pollution) Act,1981..

2. Documents Relied Upon:

(a) The content of Environmental Clearance (EC), vide Ref.

(i) J-11011/310/209-I(A). II(I), dated. 28.01.2010 (granted as primary EC)

(ii) J-11011/310/209-I(A). II(I), dated.25.09.2012 by MOEF, New Delhi (issued for re-validation).

(b) The content of Consent-to-Establish (CTE), vide Ref. No. 632 dated. 18.02.2010, JSPCB, Ranchi.

(c) The content of Consent-to-Operate (CTO), vide Ref. No. JSPCB/HO/RNC/CTO-7638963/2020/704, dated 25.03.2020, JSPCB, Ranchi.

(d) The content of self certificate/undertaking regarding procurement of raw material from the valid source.

(e) The content of Inspection Report (IR), vide Ref. No. 36, dated 17.01.2022,of Regional office-cum-Laboratory, JSPCB, Hazaribagh.

3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to operate the project in Mauza -MARAR , P S -RAMGARH , District -RAMGARH , as follows:

Project	Site-Area		Investment (Rs)	Product & Capacity	Period of CTO
	Plot Nos.	Area			Date of issue To
In Expansion	1364, 1405(P)	19.5 Acres	74 Crore	Sponge Iron- 100X3 TPD, Captive Power - 5 MW	31/03/2025

(A) Specific Conditions:

1. That, the occupier shall operate and maintain Closed Circuit Television (CCTV) camera rather than keeping small openings in shed for frequent observations and sheds should be provided for plant process machineries/ APCD's.
2. That, the occupier shall in no case dispose of the solid waste including fly ash and bottom ash on any agricultural land and keep it within the plant premises. All the solid wastes shall be kept fully covered with wire mesh or soil coating. Different types of solid wastes generated shall be stored separately as per the guidelines of CPCB to avoid adverse effect on air quality and water region.
3. That, the occupier shall make arrangement for operation of the plant in such a way that all pollution control devices shall start before start of conveyor belt/plant operation and similarly all pollution control devices shall be put off only after stopping the operation of the plant.
4. That, the occupier shall maintain zero trade effluent discharge and install a web cam at each outlets of the drain.
5. That, the occupier shall comply fugitive emission standards of 2000 microgram/m³ at a distance of 10 metre from raw material crusher and product handling areas etc.
6. That, the occupier shall operate and maintain air pollution control devices such as ESP & Bag filters regularly.
7. That, the occupier shall provide information regarding shut down of Air Pollution Control Device and plant within 24 hrs. to the Board.
8. That, the occupier shall maintain & operate fixed type water sprinkler at all dusty places inside the plant.
9. That, the occupier shall submit report(s) duly monitored and issued by an NABL accredited / ISO 9001:2008 and OHSAS 18001:2007 certified laboratory in compliance sub-para (2), (3), (4) and (5) of paragraph 3 of this CTO yearly at required periodicity.
10. That, the occupier shall construct and maintain the height of stack as per the prescribed guidelines.
11. That, the occupier shall make water sprinkling arrangement in areas around crushing and screening units, raw material heaps at unloading points, heavy vehicle movement areas, roads and waste dump sites etc
12. That, the occupier shall make extensive plantation of three tier all along the roads and boundary wall of the industry.
13. That, the occupier shall adopt the system of the telescopic chute/any other system to reduce the fugitive emission while loading the products into trucks/fine dust in the bags.
14. That, the occupier shall install and operate SO₂ analyzer and shall ensure the data transfer to JSPCB and CPCB server.
15. That, the occupier shall provide software controlled interlocking facility keeping in view of on-line

emission and effluent monitoring system to ensure stoppage of feed conveyor, so that the feed to the kiln would stop automatically, if emergency/safety cap of the rotary kiln is opened or ESP is non - operational.

16. That, the occupier shall comply all the provisions mentioned in MoEF and its guideline/code of practice for pollution prevention for Sponge Iron Plants.

17. That, the occupier shall make the approach road and roads within premises of the plant and work areas asphalted or concreted.

18. That, the occupier shall have its conveyor belt for transporting the materials fully covered all along its way and transfer points of conveyor belt should also be covered and suction system should be connected to de-dusting equipment.

19. That, the occupier shall, use the fly ash generated from AFBC boiler as per notification released by MoEF & CC, New Delhi "Fly Ash Notification" dated 14th September, 1999 and as amended on 25th January, 2016.

20. That, the occupier shall operate and maintain online stack emission monitoring system for particulate matter with connectivity to Jharkhand State Pollution Control Board server and unit shall ensure the data transfer to JSPCB and CPCB server.

21. That, the occupier shall provide separate electricity meter and totaliser for continuous recording of power consumption with all APCD. A logbook shall be maintained for recording of daily meterage of electricity meter connected to all APCDs. The amperage of the ID fan shall also be recorded continuously. No functioning of APCD shall be recorded in the same logbook along with reasons for non-operation of the Pollution Control Equipment.

22. That, the occupier shall construct garland drain, toe wall and settling tanks for storage of solid wastes and raw materials separately and de-siltation of settling tanks shall be done regularly.

23. That, the occupier shall submit performance evaluation report of pollution control devices and equipments to the Board within consent period.

24. That, the occupier shall cover the coal char with wire mesh and keep it within boundary wall and shall submit the photograph of the same as an evidence to the Board.

25. That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules made there under.

26. That, the occupier shall make provision of Personal Protective Equipment (dust mask, helmet, safety shoes, goggles, ear plugs) and ensure their utilization by all the workers during operation of the plant.

27. That, the occupier shall comply all the provisions mentioned in MoEF notification no. GSR 414 (E), dated. 30.05.2008 prescribed in Section 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986) and its guideline/code of practice for pollution prevention for Sponge Iron Plants.

28. That, the occupier shall install AFBC boiler by 31.12.2022 and submit its report to the Board by 1st

week of Jan'2023.

29. That, this CTO supersedes the CTO granted earlier vide ref. no. JSPCB/HO/RNC/CTO-7638963/2020/704, dated 25.03.2020.

(B) General Conditions :

- (1) That, the occupier shall maintain the **National Ambient Air Quality Standard** given below:

S N	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Govt.)
(1)	(2)	(3)	(4)	(5)
1.	Sulphur Dioxide (SO ₂), µg/m ³	Annual 24 hours	50 80	20 80
2.	Nitrogen Dioxide (NO ₂), µg/m ³	Annual 24 hours	40 80	30 80
3.	Particulate Matter (size less than 10 µm) or PM ₁₀ , µg/m ³	Annual 24 hours	60 100	60 100
4.	Particulate Matter (size less than 2.5 µm) or PM _{2.5} , µg/m ³	Annual 24 hours	40 60	40 60
5.	Ozone(O ₃), µg/m ³	8 hours 1 hour	100 180	100 180
6.	Lead (Pb) µg/m ³	Annual 24 hours	0.50 1.0	0.50 1.0
7.	Carbon Monoxide (CO) mg/m ³	8 hours 1 hour	02 04	02 04
8.	Ammonia (NH ₃) µg/m ³	Annual 24 hours	100 400	100 400
9.	Benzene (C ₆ H ₆) µg/m ³	Annual	05	05
10.	Benzo(a) Pyrene(BaP) Particulate Phase only ng/m ³	Annual	01	01
11.	Arsenic (As) ng/m ³	Annual	06	06
12.	Nickel (Ni) ng/m ³	Annual	20	20

**Note : Serial no. 1 to 4 – Mandatory
Serial no. 5 to 12 As applicable for specific type of industry.**

- (2) That, the occupier shall maintain the emission quality within the standard and the quantity, as follows:

S N	Parameter	Standard
1	Particulate Matter	150 mg/Nm ³

- (3) That, the occupier shall keep process effluent in close-circuit and the quality of effluent from other sources in conformity with the standard (s) and the discharge quantity as below:

S N	Parameter	Standard
1	Total Suspended Solids	100 mg/L
2	BOD	30 mg/L
3	COD	250 mg/L
4	Oil & Grease	10 mg/L

- (4) That, the occupier shall dispose of solid wastes as follows:

S N	Waste Type	Mode of Disposal
1	Hazardous Carbonaceous Wastes	In co-processing in high temperature furnaces or kilns
2	Hazardous Non-Carbonaceous Wastes	In TSDF
3	Non-Carbonaceous Non-Hazardous solid wastes/ Mine Over Burden	As a substitute of Soil or Mineral

- (5) That, the occupier shall keep D G Set(s) within acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm.
- (6) That, the occupier shall install and maintain Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge and submit the photographic view of the structures within a month.
- (7) That, the occupier shall grow and maintain greenery of the project in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.
- (8) That, the occupier shall submit environmental statement with supporting stoichiometric calculations analyses reports, every year latest by 30th September of the next financial year.
- (9) That, the occupier shall submit report(s) duly monitored and issued by an NABL accredited / ISO 9001:2008 and OHSAS 18001:2007 certified laboratory in compliance sub-para (2), (3), (4) and (5) of paragraph 3 of this CTO yearly at required periodicity.

- (10) That, this CTO is valid subjected to the validity of mining Lease/Mining Plan/Ecofriendly/Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.
- (11) That, this CTO is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ occupier.
- (12) That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding , if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.
- (13) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules made there under.
4. **That, this CTO shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.**
5. **That, this CTO is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTO will be revoked if any of the information/documents/certificates/undertaking given by the occupier is found false/fictitious/forged in future.**
6. **The Order shall be valid subject to compliance of all other legal requirements applicable to the unit.**
7. **The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alteration in conditions of this consent.**

This is issued with the approval of the Competent authority

[Y. K. Das]

Member Secretary

Memo No. : JSPCB/HO/RNC/CTO-
11688208/2022/345

Dated : 2022-03-25

Copy to: M/s Bihar Foundry & Castings Ltd., UNIT: H.A. Sponge & Power, At+PO- Marar, Ramgarh Industrial Area, Ramgarh, Distt- Ramgarh/ Chief Inspector of Factories, Ranchi/ Director of Industry, Government of Jharkhand, Ranchi/ Director of Mines, Government of Jharkhand, Ranchi/ Deputy Commissioner, Ramgarh/ DFO, Ramgarh/ DMO, Ramgarh/ R O, Hazaribagh for information & ensuring compliance of the above.

[Y. K. Das]

Member Secretary