

Ref. No. BFCL/ENV/2023/28

Dated: 29.05.2023

To,
Addl. Principal Chief Conservator of Forests (C),
Ministry of Environment Forest & Climate Change
Integrated Regional Office, Bungalow No. A-2,
Shyamli Colony, Ranchi- 834002

Sub- Half Yearly compliance status report of Environmental Clearance Conditions for the period of October 2022 to March 2023 in respect to M/s Bihar Foundry & Castings Limited.

Ref- Environmental Clearance Letter No. J-11011/310/2009-IA.II (I) dated 28.01.2010

Dear Sir,

We are pleased to enclose herewith six monthly compliance status reports for the conditions stipulated in Environmental Clearance granted to M/s Bihar Foundry & Castings Limited at Plot no. 1364, Ramgarh Industrial Area, Marar Village, District Ramgarh (Jharkhand).

We are also sending herewith the soft copy of the report to your good office via email ro.ranchi-mef@gov.in for your kind perusal.

Thanking You,

Sincerely Yours,
For, Bihar Foundry & Castings Limited

BK
(B. K. Gupta)
General Manager (Environment)



Enclosures. As above

Copy to:

1. The Zonal Office Incharge, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th floors, 1582 Rajdanga Main Road Kolkata-700107 (W.B.)
2. The Member Secretary, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor) HEC, Dhurwa, Ranchi-834004
3. The Regional Officer, Jharkhand State Pollution Control Board, P.T.C. Chowk, Matwari Road, Dist- Hazaribagh (Jharkhand)-825301

Bihar Foundry & Castings Limited

Works :- Ramgarh Industrial Area, P.O.- Marar, Dist.- Ramgarh, Jharkhand - 829117.

Registered Office :- Main Road, Ranchi, Jharkhand - 834001.

CIN No :- U27100JH1971PLC000912 & GST No :- 20AABC1852D1Z1

Ranchi - 8825379408, 9523097635 / Ramgarh - 9934012660, 7033698983, Email :- bfclgfa@gmail.com

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Six Monthly Environmental Clearance Compliance Status Report

(Period: October 2022 to March 2023)

S. No.	A. Specific Condition	Compliance Status
i.	Compliance to all the specific and general conditions stipulated for the existing plant by the Central/State Govt. shall be ensured and regular reports submitted to the Ministry and its Regional Office at Bhubaneswar.	Being complied. We are submitting the half yearly compliance reports to the IRO, MOEF&CC Office, Ranchi regularly.
ii.	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP) and bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm ³ . At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Being complied. i. The effective safeguard measures such as conditioning of ore before transportation by wet process is regularly done. ii. A dust sweeping machine installed on tractor regularly sweeps dust from all the transport roads. iii. Fixed water sprinklers 69 nos. were installed within the industrial plant. Mobile water tankers also regularly move and sprinkle water in the dust prone areas. iv. PM 10 Analyzer is installed in this plant with connectivity to JSPCB server and data is continuously visible in the public domain in the JSPCB website "www.jspcb.nic.in". PM 10 values are always within the prescribed limit i.e. 100 µg/m ³ . CEMS is also being carried out; values are within the prescribed limits. The data is continuously visible in public domain in the JSPCB website "www.jspcb.nic.in". • Interlocking facility is not installed because we have utilizing the flue gas for WHRB therefore; the emission level is always within the prescribed limits. We assured that in case of any aberration or requirement, we would install the interlocking facilities.
iii.	Electrostatic precipitator (ESP) shall be provided to DRI kilns, AFBC boiler and waste heat recovery boiler (WHRB) to control gaseous emissions within 100 mg/Nm ³ . Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack of adequate height. Fume extraction system with bag filters shall be provided to induction furnace and ladle furnace and the cleaned gases shall be passed through a stack of adequate height. Wet scrubber and stack of adequate height shall be provided to rolling mill. Data on ambient air quality stack emissions and fugitive emissions shall regularly submit to the Ministry's Regional Office at Bhubaneswar, Jharkhand Pollution Control Board	Being complied. ESPs are installed in all three DRI Kilns and working efficiently. Thus dusts emission from the chimney is well within the norms. A 5MW waste heat recovery boiler (WHRB) has also been established, which further reduces gaseous emission. The monitoring reports of Ambient air quality, Stack Emissions and fugitive emissions monitored and analyzed by NABL accredited laboratory are enclosed as Annexure 1A, 1B & 1C respectively. In stack online real time Stack Emission monitoring systems are installed with connectivity to the server of CPCB & JSPCB for data transmission. Data transmitted to CPCB & JSPCB server are visible in publicly in the JSPCB website " www.jspcb.nic.in ".



Six Monthly Environmental Clearance Compliance Status Report

(Period: October 2022 to March 2023)

S. No.	A. Specific Condition	Compliance Status
	(JPCB) and Central Pollution Control Board (CPCB) once in six months.	
iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	Being complied. AAQ monitoring reports attached as Annexure 1A .
v.	In-plant control measures for checking fugitive emissions from all the vulnerable sources including Bag filters shall be provided at coal and iron ore screen and crusher house, product house, cooler discharge, intermediate bins, coal injection points of DRI plant. Dust extraction System with bag filters shall be provided to crusher house, screens, transferring chutes, junction towers and feed points below reclaim hoppers. Dust suppression system with sprinklers shall be provided at raw material stock piles (coal, iron ore etc.) to control fugitive dust emissions. Further, specific measures like asphaltting of the roads within premises shall be carried out to control fugitive emissions. Fugitive emissions shall be controlled, regularly monitored and records maintained.	Being complied. <ul style="list-style-type: none"> • Bag filters are installed at all the vulnerable points at coal and iron ore screening section, crusher house, product house, cooler discharge, intermediate bins, coal injection points of DRI plant. Bag Filter details are attached as Annexure 2. • We have also installed water sprinklers near raw materials stock piles, loading /unloading points & transportation roads. • All roads inside the premises are concrete. Transportation is done by covered vehicle. Water tankers continuously move for spraying water on road to suppress fugitive emission.
vi.	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. New standards issued by the Ministry for the sponge iron plant in May, 2008 shall be followed.	Being Complied. New standard issued by the Ministry for the sponge iron plant of May, 2008 is followed. The fugitive emission always remains within the limit prescribed. The monitoring has been carried out by NABL accredited laboratory. The fugitive Emission Reports is enclosed as Annexure 1C .
vii.	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	Being complied. Raw material and finished products are transported in covered vehicles. The vehicular emission is kept under control by regular monitoring and optimal loading of materials. The PUC Certificates are enclosed as Annexure 3 .
viii.	Total ground water requirement shall not exceed 300 m ³ /day and prior 'Permission' for the drawl of 300 m ³ /day ground water from the central Ground Water Authority / State Ground Water Board (CGWA/SGWB) shall be obtained. All the effluent from effluent treatment plant shall be neutralized in a neutralization pit and used for gardening and washing. All the acidic and alkaline regeneration wastewater from the demineralization (DM) plant, cooling tower blow down, boiler blow down and wastewater from rolling mill shall be mixed in a central monitoring basin (CMB), neutralized and after settling in settling tank shall be used for ash	Being Complied. NOC for withdrawal of 300 KLD underground water has been granted by CGWA vide letter No. CGWA/NOC/IND/ORIG/2021/13540 from 26.03.2021 to Valid up to-25.03.2024. Copy of the same is enclosed as Annexure 4 . The acidic and alkaline wastewater generated from the demineralization (DM) plant, cooling tower blow down, boiler blow down are neutralized and after settling in settling tank is being re-used for ash conditioning, slag cooling / green belt development. Runoff from the coal storage yard is discharged to the sump and sludge is disposed off in environment friendly manner.



Six Monthly Environmental Clearance Compliance Status Report

(Period: October 2022 to March 2023)

S. No.	A. Specific Condition	Compliance Status
	conditioning, slag cooling / green belt development. Runoff from the coal storage yard shall be discharged to the sump and sludge shall be disposed off in environment-friendly manner.	
ix.	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Being Complied. Rain water harvesting pit is available within plant premises, further a scheme has been submitted and photographs of existing rain water harvesting pit is enclosed as Annexure 5 .
x.	'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises. Domestic wastewater shall be treated in septic tanks followed by soak pit and used for green belt development.	Being complied. No waste water is discharged outside the plant premises. Entire process water is recycled and reused thus maintaining zero liquid discharge.
xi.	The water consumption shall not exceed 16 m ³ /Ton of Steel as per prescribed standard.	Being complied. The water consumption is well within the prescribed norms.
xii.	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the (EPA) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar, Jharkhand SPCB and CPCB.	Being complied. The influent and effluent surface, sub-surface and ground waters are regularly monitored and treated. The tests reports of Neutralization pit and ground water of bore well water are enclosed as Annexure 1D & 1E respectively.
xiii.	All the char from DRI plant shall be utilized in AFBC boiler of power plant and no char shall be disposed off anywhere else. AFBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning. Dust collected from coal crushing and screening bag filter shall be reused in rotary kiln. All the SMS slag, kiln accretions etc. shall also be properly utilized. Mill scales from re-rolling mill shall be used in induction furnace. Dust collected from rotary kiln shall be sold to mini cement plants. Wet scrapper sludge shall be given to brick manufacturers. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner. Oily waste and spent oil shall be provided to authorized recyclers / reprocessors.	Being complied. The AFBC boiler has been not installed so far. The condition has been amended letter dated on 25.09.2012 and has granted permission to send char generated in all three Kilns to power plants located in the cluster. The generated Char is properly disposed and are sold to the AFBC based power plants in the cluster till its 10 MW power plant is commissioned. The Solid waste has now been shifted/ dumped in the dissipated area. However, small quantities if left are kept at designated areas, which get lifted by user agency immediately. HW authorization No. JSPCB/RO/HZB/HWM-6758830/2019/7 Dated 30.12.2019 valid up to 30.09.2024. We are following the guidelines of Hazardous and other wastes (Management and Trans boundary Movement) rules, 2016 & ammendments.
xiv.	All the slag from induction furnace shall be used for land filling inside the plant or used as building material only after passing through Toxic Chemical Leach ability Potential (TCLP) test. Toxic slag shall be disposed in	Being complied. Slag is used for filling low laying area and road construction. TCLP test report is enclosed as Annexure 1G .



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(Period: October 2022 to March 2023)

S. No.	A. Specific Condition	Compliance Status
	secured landfill as per CPCB guidelines. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines.	
xv.	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, Jharkhand SPCB and CPCB.	Being complied. The solid waste i.e., dolochar is being sold to AFBC based power plant in the cluster.
xvi.	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	Being complied. All the dolochar are sold to the AFBC based power plant in the cluster. Slag is used for filling low laying area and road construction.
xvii.	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003. All the fly ash shall be provided to cement and brick manufacturers for further utilization and 'Memorandum of Understanding' shall be submitted to the Ministry's Regional Office at Bhubaneswar.	Not applicable. There is no fly ash generation in the plant.
xviii.	A Disaster Management Plan shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, Jharkhand SPCB and CPCB within 3 months of issue of environment clearance letter.	Complied. Disaster management plan submitted and recommended by Chief Inspector of Factory Vide letter No. 7/EP 1015/2022 अ.नि.(मु.का.नि.) dated 20.04.2022. A copy of the same has been submitted to the Ministry of Regional office at Ranchi & JSPCB. Annexure 6.
xix.	As proposed, green belt shall be developed in 4.7 acres (33 %), out of total 14 acres land within and around the plant premises as per the CPCB guidelines in consultation with DFO.	Being complied. Dense Green belt has been developed within the plant premises. Plantation has been carried out using native species. Total 4620 Nos. of plants has been planted in 2021-22. Area covering 4.62 acres of land i.e., 33% of 14 Acre land. Greenbelt photographs are attached as Annexure 7.
xx.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.	Being complied Corporate Responsibility for Environment Protection (CREP) is attached as Annexure 9.
xxi.	The company shall provide housing for 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied. The condition has already been complied with during the construction phase.



Six Monthly Environmental Clearance Compliance Status Report

(Period: October 2022 to March 2023)

S. No.	B. General Conditions:	Compliance Status
i.	The project authorities must strictly adhere to the stipulations made by the Jharkhand Pollution Control Board (JPCB) and the State Government.	Being complied. All stipulations made by Jharkhand state pollution control board (JSPCB) and state government are complied with. i. CTO vide letter No. JSPCB/HO/RNC/CTO-4426528/2019/2376 dated 28/11/2019 with validity up to 31.12.2024. ii. CTO vide letter No. JSPCB/HO/RNC/CTO-11688208/2022/345 dated 25/03/2022 with validity up to 31.03.2025. iii. Hazardous Waste authorization Letter No. JSPCB/RO /HZB/HWM-6758830/2019/7 Dated 30.12.2019 with validity up to 30.09.2024.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Noted.
iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Being complied. Fugitive emission is being controlled by spraying water through tanker and fixed water sprinklers. Materials are being transported in vehicles duly covered to avoid fugitive emission. A dust sweeping machine has been procured which regularly removed dust from the transport roads inside or outside the plant premises.
iv.	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the Jharkhand SPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the Jharkhand PCB / CPCB once in six months.	Being complied. Ambient air monitoring is being regularly carried out at four different stations within the surrounding in plant premises. The monitoring location has been fixed in consultation with State pollution control board, Jharkhand and reports are being submitted to Regional office, MOEF & CC, Ranchi and JSPCB on half yearly basis. An ambient air quality report is attached as Annexure 1A .
v.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Being complied. There is no discharge of waste water from the plant. Our unit is zero discharge units. No water is being discharged from it outside the plant premises.
vi.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. On all	Being complied. The ambient noise and work zone noise level is well within the prescribed limit. The monitoring reports are enclosed herewith for your perusal as Annexure 1F .



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(Period: October 2022 to March 2023)

S. No.	B. General Conditions:	Compliance Status
	sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	
vii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being complied. Periodical medical examinations of workmen are organized as per Factory Act. List of medical examination of workmen are enclosed as Annexure 10 .
viii.	The company shall develop surface as well as ground water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Being complied. Rain water harvesting pit is available within plant premises, further a scheme has been finalized for rain water harvesting is enclosed as Annexure 5 .
ix.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Being complied. We ensure to comply all measures as recommended in EIA/EMP report. <ol style="list-style-type: none"> I. In Sponge iron unit (3x 100TPD) DRI Kiln-1 & 2 (Stack-1) and DRI kiln-3 (Stack-2) ESPs along with ID fan are already installed) ESP along with ID fan already installed. Bag filters have also been installed at different location in sponge iron unit. II. Fume extraction system is already installed in Induction furnace unit. III. Online continuous Emission monitoring (CEMS) has been installed in Stack-1 & 2 with connectivity to CPCB & JSCB server and online data are continuously transmitted to JSPCB & CPCB server. IV. This online data is also visible in public domain on website of JSPCB "www.jspcb.nic.in". V. 100% utilization of solid waste is being achieved on regular basis. VI. All environmental monitoring such as, ambient air quality, water quality, stack emission, fugitive emission & noise level monitoring are carried out by NABL accredited and JSPCB authorized laboratory. VII. Further as per instruction of JSPCB, PM10 analyzer has been installed with connectivity to JSPCB server. Its online data is visible in public domain on JSPCB website "www.jspcb.nic.in". VIII. It is ensured to improve the housekeeping. Dust sweeping machine has been procured which removed dusts from all the transport roads inside & outside plant premises. IX. Fixed water sprinklers have been installed by the side of transport roads and mobile water tankers also regularly move and sprinkle water in the dust prone areas. A dust sweeping machine installed on tractor regularly sweeps dust from all the



Six Monthly Environmental Clearance Compliance Status Report

(Period: October 2022 to March 2023)

S. No.	B. General Conditions:	Compliance Status
		transport roads. X. Socio- economic developmental activities details have been enclosed as Annexure 8 .
x.	As proposed, Rs. 4.00 Crores and Rs. 0.40 Crores shall be earmarked towards total capital cost and recurring cost/annum for the environmental pollution control measures and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Complied. Details of capital and recurring expenditure for pollution control measures are enclosed herewith as Annexure 11 .
xi.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila, Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied. Copy of EC letter has been submitted to the respective heads of local bodies, Panchayats and municipal bodies in addition to the relevant offices of the government. Copy of panchayat letter is attached as Annexure 12 .
xii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the JPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Being complied. Compliance reports along with monitoring data are being regularly uploaded on company website www.bfcl.co.in. Digital displays Board at the main gate have been installed and data is being displayed on this Board. Manual board is also installed and data are displayed near main gate for public domain.
xiii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry / CPCB / SPCB shall monitor the stipulated conditions.	Being complied. Six monthly compliance reports are submitted regularly on the status of implementation of the stipulated environmental safeguards to the MOEF&CC, Regional office Ranchi (JSPCB) & CPCB. Latest submission Vide Letter No. BFCL/ENV/2022/23 Dated: 29.11.2022 for the period of April 2022 to September 2022. Copy of the Letter is attached as Annexure 13 .
xiv.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional	Complied. The environmental statements for the each financial year have been submitted Vide Letter No. BFCL/ENV/2022/16 Dated 06.09.2022 for the period of 2021-22 and the same has been hosted on company website www.bfcl.co.in. Further, compliance status on environmental clearance conditions was also sent to the Regional office of the Ministry of Environment and Forest, Ranchi by e-mail.



Six Monthly Environmental Clearance Compliance Status Report

(Period: October 2022 to March 2023)

S. No.	B. General Conditions:	Compliance Status
	Offices of the MOEF by e-mail.	Copy of the Letter is attached as Annexure 14 .
xv.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.	Complied. We have advertised in the newspapers. Copy of the same has been submitted to Regional Office. Ranchi express dated- 04.11.2011 Sunmarg dated- 04.11.2011
xvi.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied. The date of financial closure for Sponge Iron plant is 9 th March 2012 and the date of financial closure Induction Furnace is 28 th September 2012.





Unique Lab Report No. (ULR No.)	TC99482300000622F		
Name of Industry	M/s Bihar Foundry & Castings Ltd.	Work order No.-	15382045(Date-06.03.2023)
Address	Unit: H.A. Sponge & Power At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Particular of the Plant	Iron & Steel Industry
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	03.04.2023 to 04.04.2023	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/98/AA-114	Report Release Date	07.04.2023
Period of Analysis	04.04.2023 to 05.04.2023	Plant Status	Operational
Metrological Information	Average Ambient Temperature :28.0 °C, Relative Humidity : 41% Barometric Pressure:752 mmHg, Weather Condition - Clear		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Near Main Gate (Coordinates- 23°39'19"N to 85°30'25"E)
Location- 2: Near New Office (Coordinates- 23°39'28"N to 85°30'25"E)

Duration of Sampling: 24 hours

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/S pecifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	40.19	52.13	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	90.15	92.25	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	24.17	28.33	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	45.73	52.66	80 (µg/m ³)
5.	Ammonia as NH ₃	µg/m ³	IS 5182 PART-25	35.4	23.8	400(µg/m ³)
6.	Ozone as O ₃	µg/m ³	IS 5182 PART -9	81.5	42.6	180(µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.



Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com



Name of Industry	M/s Bihar Foundry & Castings Ltd.	Particular of the Plant	Iron & Steel Industry
Address	Unit: H.A. Sponge & Power At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	03.04.2023 to 04.04.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work order No.-	15382045(Date-06.03.2023)
Sample ID	SCECPL/TR/23/98/AA-114/A,B	Report Release Date	07.04.2023
Period of Analysis	04.04.2023		
Metrological Information	Average Ambient Temperature :28.0 °C, Relative Humidity : 41% Barometric Pressure:752 mmHg, Weather Condition - Clear		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Near Main Gate (Coordinates- 23°39'19"N to 85°30'25"E)
Location- 2: Near New Office (Coordinates- 23°39'28"N to 85°30'25"E)

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/S pecifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.82	0.52	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)



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Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



Unique Lab Report No. (ULR No.)		TC994823000000623F	
Name of Industry	M/s Bihar Foundry & Castings Ltd.	Work order No.-	15382045(Date-06.03.2023)
Address	Unit: H.A. Sponge & Power At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Particular of the Plant	Iron & Steel Industry
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	03.04.2023 to 04.04.2023	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Report Release Date	07.04.2023
Sample ID	SCECPL/TR/23/98/AA-115	Plant Status	Operational
Period of Analysis	04.04.2023 to 05.04.2023		
Metrological Information	Average Ambient Temperature :28.0 °C, Relative Humidity : 41% Barometric Pressure:752 mmHg, Weather Condition - Clear		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Near Induction Furnace (Coordinates- 23°39'15"N to 85°30'29"E)
Location- 2: North-East Direction, Near School (Coordinates- 23°39'19"N to 85°30'25"E)

Duration of Sampling: 24 hours

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/S pecifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	50.06	48.24	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	91.38	85.22	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	61.66	35.00	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	70.68	57.51	80 (µg/m ³)
5.	Ammonia as NH ₃	µg/m ³	IS 5182 PART-25	39.4	34.6	400(µg/m ³)
6.	Ozone as O ₃	µg/m ³	IS 5182 PART -9	125.2	81.3	180(µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.



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Sabz Care

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TEST REPORT

Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit: H.A. Sponge & Power	Particular of the Plant	Iron & Steel Industry
Address	At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	03.04.2023 to 04.04.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work order No.-	15382045(Date-06.03.2023)
Sample ID	SCECPL/TR/23/98/AA-115/A,B	Report Release Date	07.04.2023
Period of Analysis	04.04.2023	-	-
Metrological Information	Average Ambient Temperature :28.0 °C, Relative Humidity : 41% Barometric Pressure:752 mmHg, Weather Condition - Clear		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Near Induction Furnace (Coordinates- 23°39'15"N to 85°30'29"E)
Location- 2: North-East Direction, Near School (Coordinates- 23°39'19"N to 85°30'35"E)

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.86	0.48	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Authorized Signatory

Piyush
Quality Manager
(Piyush/Ranjan)



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Unique Lab Report No. (ULR No.)	TC99482300000630F		
Name of Industry	M/s Bihar Foundry & Castings Ltd.	Work order No.-	15382045(Date-06.03.2023)
Address	Unit: H.A. Sponge & Power At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Type of Industry	Iron & Steel Industry
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Method	IS: 11255 & CPCB Guideline	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	03.04.2023	Sample condition	Sealed
Location	Stack	Sample Drawn By	Sabz Care Lab
Sample Details	Stack Emission	Period of Analysis	05.04.2023
Report No.	SCEPL/TR/23/98/ST-17	Report Release Date	07.04.2023
Plant Status	Operational		

GENERAL INFORMATION ABOUT STACK

1. Stack attached to : Stack 01 (Kiln No. 01 & 02)
2. Shape of Stack : Circular
3. Material of Construction : M.S.
4. Height of Stack from G.L (mtr) : 47 Meter
5. Stack ID at sampling point (mtr) : 1.8 Meter
6. Height of sampling port from G.L. (mtr) : 16.0 Meter
7. Total Production Capacity : 66000 MT/Annum
8. Emission due to : Reduction of Iron Ore & Oxidation of Coal
9. Type of Fuel Used: Coal b. Fuel Consumption: 52800 MT/Annum
10. a. Ladder: Permanent b. Platform: Permanent
11. Pollution Control Device : E.S.P.
12. Stack Gas Temperature (°C) : 148° C
13. Barometric Pressure (mm of Hg) : 752.00
14. Velocity of Gas Flow (m/s) : 14.88 m/s
15. Flue Gas Quantity (Nm³/Hr) : 90239 Nm³/Hr

TEST RESULTS

S. No.	PARAMETERS	UNIT	TEST METHOD	RESULTS
1.	Particulate Matter	mg/Nm ³	IS: 11255 (Part 1)	27.08
2.	Sulphur Dioxide as SO ₂	mg/Nm ³	IS: 11255 (Part 2)	83.32
3.	Carbon Dioxide as CO ₂	% (v/v)	IS: 13270	8.6
4.	Oxide of Nitrogen as NOx	mg/Nm ³	IS 11255: Part 7	38.94

***Remark:**

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*** END OF REPORT ***



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Unique Lab Report No. (ULR No.)	TC99482300000631F	
Name of Industry	M/s Bihar Foundry & Castings Ltd.	Work order No.- 15382045(Date-06.03.2023)
Address	Unit: H.A. Sponge & Power At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Type of Industry Iron & Steel Industry
Discipline	Chemical	Group Atmospheric Pollution
Sampling Method	IS: 11255 & CPCB Guideline	Sample Collected by Ranjeet Yadav & Team
Date of Sampling	04.04.2023	Sample condition Sealed
Location	Stack	Sample Drawn By Sabz Care Lab
Sample Details	Stack Emission	Period of Analysis 05.04.2023
Report No.	SCECPL/TR/23/98/ST-18	Report Release Date 07.04.2023
Plant Status	Operational	

GENERAL INFORMATION ABOUT STACK

- Stack attached to : Stack 02 (Kiln No. 03)
- Shape of Stack : Circular
- Material of Construction : M.S.
- Height of Stack from G.L (mtr) : 50 Meter
- Stack ID at sampling point (mtr) : 1.8 Meter
- Height of sampling port from G.L. (mtr) : 18.0 Meter
- Total Production Capacity : 33000 MT/Annum
- Emission due to : Reduction of Iron Ore & Oxidation of Coal
- Type of Fuel Used: Coal
b. Fuel Consumption: 26400 MT/Annum
- a. Ladder: Permanent
b. Platform: Permanent
- Pollution Control Device : E.S.P.
- Stack Gas Temperature (°C) : 138^o C
- Barometric Pressure (mm of Hg) : 752.00
- Velocity of Gas Flow (m/s) : 13.87 m/s
- Flue Gas Quantity (Nm³/Hr) : 87213 Nm³/Hr

TEST RESULTS

S. No.	PARAMETERS	UNIT	TEST METHOD	RESULTS
1.	Particulate Matter	mg/Nm ³	IS: 11255 (Part 1)	25.62
2.	Sulphur Dioxide as SO ₂	mg/Nm ³	IS: 11255 (Part 2)	72.70
3.	Carbon Dioxide as CO ₂	% (v/v)	IS: 13270	7.4
4.	Oxide of Nitrogen as NOx	mg/Nm ³	IS 11255: Part 7	34.16

***Remark:**

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

*** END OF REPORT ***



Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

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Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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TEST REPORT

Unique Lab Report No. (ULR No.)	TC99482300000632F		
Name of Industry	M/s Bihar Foundry & Castings Ltd.	Work order No.-	15382045(Date-06.03.2023)
Address	Unit: H.A. Sponge & Power At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Type of Industry	Iron & Steel Industry
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Method	IS: 11255 & CPCB Guideline	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	04.04.2023	Sample condition	Sealed
Location	Stack	Sample Drawn By	Sabz Care Lab
Sample Details	Stack Emission	Period of Analysis	05.04.2023
Report No.	SCECPL/TR/23/98/ST-19	Report Release Date	07.04.2023
Plant Status	Operational		

GENERAL INFORMATION ABOUT STACK

1. Stack attached to : Stack 03 (2 x 3 IF Ton)
2. Shape of Stack : Circular
3. Material of Construction : M.S.
4. Height of Stack from G.L (mtr) : 30 Meter
5. Stack ID at sampling point (mtr) : 1.8 Meter
6. Height of sampling port from G.L. (mtr) : 16.0 Meter
7. Total Production Capacity : 2 x 3 IF ton
8. Emission due to : Process Activity
9. Type of Fuel Used: Electricity b. Fuel Consumption: NA
10. a. Ladder: Permanent b. Platform: Permanent
11. Pollution Control Device : Wet Scrubber, FES
12. Stack Gas Temperature (°C) : 71^oC
13. Barometric Pressure (mm of Hg) : 752.00
14. Velocity of Gas Flow (m/s) : 12.08 m/s
15. Flue Gas Quantity (Nm³/Hr) : 94972 Nm³/Hr

TEST RESULTS

S. No.	PARAMETERS	UNIT	TEST METHOD	RESULTS
1.	Particulate Matter	mg/Nm ³	IS: 11255 (Part 1)	19.86
2.	Sulphur Dioxide as SO ₂	mg/Nm ³	IS: 11255 (Part 2)	55.22
3.	Carbon Dioxide as CO ₂	% (v/v)	IS: 13270	2.8
4.	Oxide of Nitrogen as NOx	mg/Nm ³	IS 11255: Part 7	30.00

***Remark:**

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*** END OF REPORT ***



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Unique Lab Report No. (ULR No.)		TC99482300000633F	
Name of Industry	M/s Bihar Foundry & Castings Ltd.	Work order No.-	15382045(Date-06.03.2023)
Address	Unit: H.A. Sponge & Power At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Type of Industry	Iron & Steel Industry
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Method	IS: 11255 & CPCB Guideline	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	04.04.2023	Sample condition	Sealed
Location	Stack	Sample Drawn By	Sabz Care Lab
Sample Details	Stack Emission	Period of Analysis	05.04.2023
Report No.	SCECP/IR/23/98/ST-20	Report Release Date	07.04.2023
Plant Status	Operational		

GENERAL INFORMATION ABOUT STACK

- Stack attached to : Stack 04 (1 x 6 ton IF & 1x 10 ton IF)
- Shape of Stack : Circular
- Material of Construction : M.S.
- Height of Stack from G.L (mtr) : 30 Meter
- Stack ID at sampling point (mtr) : 1.8 Meter
- Height of sampling port from G.L. (mtr) : 16.0 Meter
- Total Production Capacity : 1 x 6 ton IF & 1x 10 ton IF
- Emission due to : Process Activity
- Type of Fuel Used: Electricity b. Fuel Consumption: NA
- a. Ladder: Permanent b. Platform: Permanent
- Pollution Control Device : Wet Scrubber, FES
- Stack Gas Temperature (°C) : 65° C
- Barometric Pressure (mm of Hg) : 752.00
- Velocity of Gas Flow (m/s) : 8.67 m/s
- Flue Gas Quantity (Nm³/Hr) : 69353 Nm³/Hr

TEST RESULTS

S. No.	PARAMETERS	UNIT	TEST METHOD	RESULTS
1.	Particulate Matter	mg/Nm ³	IS: 11255 (Part 1)	21.41
2.	Sulphur Dioxide as SO ₂	mg/Nm ³	IS: 11255 (Part 2)	61.60
3.	Carbon Dioxide as CO ₂	% (v/v)	IS: 13270	2.2
4.	Oxide of Nitrogen as NOx	mg/Nm ³	IS 11255: Part 7	34.96

***Remark:**

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*** END OF REPORT ***



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Unique Lab Report No. (ULR No.)	TC99482300000624F		
Name of Industry	M/s Bihar Foundry & Castings Ltd.	Work order No.-	15382045(Date-06.03.2023)
Address	Unit: H.A. Sponge & Power At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Particular of the Plant	Iron & Steel Industry
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	03.04.2023 to 04.04.2023	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)	Sample Drawn By	Sabz Care Lab
Sample Details	Fugitive Air	Report Release Date	07.04.2023
Sample ID	SCECPL/TR/23/98/AA-116	Plant Status	Operational
Period of Analysis	04.04.2023 to 05.04.2023		
Metrological Information	Average Ambient Temperature :28.0 °C, Relative Humidity : 41% Barometric Pressure:752 mmHg, Weather Condition - Clear		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Near Feed Area (Coordinates- 23°39'19"N to 85°30'27"E)
Location- 2: Near Induction Furnace (Coordinates- 23°39'16"N to 85°30'26"E)

Duration of Sampling: 24 hours

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)
1.	Particulate Matter as TSPM	µg/m ³	IS 5182 (Part 23)	1756.23	1384.57

*** END OF REPORT ***

Remarks: The Fugitive air quality with respect to Total Suspended Particulate matters as TSPM is within the prescribed Standard as per CTO.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)



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Unique Lab Report No. (ULR No.)	TC99482300000625F		
Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit: H.A. Sponge & Power	Work order No.-	15382045(Date-06.03.2023)
Address	At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Particular of the Plant	Iron & Steel Industry
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	03.04.2023 to 04.04.2023	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)	Sample Drawn By	Sabz Care Lab
Sample Details	Fugitive Air	Report Release Date	07.04.2023
Sample ID	SCECPL/TR/23/98/AA-117	Plant Status	Operational
Period of Analysis	04.04.2023 to 05.04.2023		
Metrological Information	Average Ambient Temperature :28.0 °C, Relative Humidity : 41% Barometric Pressure:752 mmHg, Weather Condition - Clear		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Near Crusher House (Coordinates- 23°39'15"N to 85°30'31"E)
Location- 2: Near Junction Point Coordinates- 23°39'22"N to 85°30'27"E)

Duration of Sampling: 24 hours

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)
I.	Particulate Matter as TSPM	µg/m ³	IS 5182 (Part 23)	1820.93	1412.56

*** END OF REPORT ***

Remarks: The Fugitive air quality with respect to Total Suspended Particulate matters as TSPM is within the prescribed Standard as per CTO.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)



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TEST REPORT

Unique Lab Report No. (ULR No.)		TC99482300000635F	
Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit-H. A. Sponge & Power	Work order No.-	15382045 (Date-06.03.2023)
		Type of Industry	Iron & Steel Industry
Address	At & PO- Marar, Ramgarh Industrial Area, Ramgarh, Dist- Ramgarh State- Jharkhand	Sample Collected by	Ranjeet Yadav
		Group	Pollution & Environment
Discipline	Chemical	Sample Condition	Sealed & Preserved
Date of Sampling	04.04.2023	Sample Drawn By	Sabz Care Lab
Type of Sample	Water	Location	Neutralization Pit
Sample Details	Effluent Water	Report Release Date	07.04.2023
Sample ID	SCECPL/TR/23/98/WT-54	Sampling Method	IS 3025 : Part 1
Period of Analysis	04.04.2023 to 07.04.2023		
Metrological information	Average Ambient Temperature- 28.0°C, Barometric Pressure-752 mm Hg Relative Humidity-41%, Weather Condition- Clear		

TEST RESULTS


Sl. No.	Parameters	Unit	Test Method	Results	Requirement/Specifications as per CPCB Guideline for Inland Surface Discharge (EPR 1986 Schedule VI)
1	pH @ 25°C	-	APHA 4500-H ⁺ B: 23 rd Ed.	6.96	5.5 – 9.0
2	Temperature	°C	APHA 2550 B: 23 rd Ed.	27.3	---
3	Total Dissolved Solid@180°C	mg/L	APHA 2540-C: 23 rd Ed.	545.0	Not specified
4	Total Suspended Solid@105°C	mg/L	APHA 2540-D: 23 rd Ed.	24.7	100
5	Chemical Oxygen Demand	mg/L	APHA 5220 B: 23 rd Ed.	58.3	250
6	Biological Oxygen Demand (3 Days @ 27°C)	mg/L	IS:3025(Part-44)	16.0	30
7	Oil & Grease	mg/L	APHA 5520-B: 23 rd Ed.	4.8	10

*** END OF REPORT ***

Remarks:

- Test values are reported based on the samples received
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Checked By


Technical Manager
(Hassan Ahmad Khan)

Authorized Signatory


Quality Manager
(Piyush Ranjan)



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Unique Lab Report No. (ULR No.)		TC99482300000634F	
Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit-H. A. Sponge & Power	Work order No.-	15382045 (Date-06.03.2023)
		Type of Industry	Iron & Steel Industry
Address	At & P.O- Marar, Ramgarh Industrial Area, Ramgarh, Dist- Ramgarh State- Jharkhand	Sample Collected by	Ranjeet Yadav
		Group	Pollution & Environment
Discipline	Chemical	Sample Condition	Sealed & Preserved
Date of Sampling	04.04.2023	Sample Drawn By	Sabz Care Lab
Type of Sample	Water	Location	Cooling Tower Blow Down (IF Area)
Sample Details	Effluent Water	Report Release Date	07.04.2023
Sample ID	SCECPL/TR/23/98/WT-53	Sampling Method	IS 3025 : Part 1
Period of Analysis	04.04.2023 to 07.04.2023		
Metrological information	Average Ambient Temperature- 28.0°C, Barometric Pressure-752 mm Hg Relative Humidity-41%, Weather Condition- Clear		

TEST RESULTS


Sl. No.	Parameters	Unit	Test Method	Results	Requirement/Specifications as per CPCB Guideline for Inland Surface Discharge (EPR 1986 Schedule VI)
1	pH @ 25°C	-	APHA 4500-H ⁺ B: 23 rd Ed.	7.14	5.5 – 9.0
2	Temperature	°C	APHA 2550 B: 23 rd Ed.	26.1	---
3	Total Dissolved Solid@180°C	mg/L	APHA 2540-C: 23 rd Ed.	2068.0	Not specified
4	Total Suspended Solid@105°C	mg/L	APHA 2540-D: 23 rd Ed.	17.0	100
5	Chemical Oxygen Demand	mg/L	APHA 5220 B: 23 rd Ed.	68.0	250
6	Biological Oxygen Demand (3 Days @ 27°C)	mg/L	IS:3025(Part-44)	21.0	30
7	Oil & Grease	mg/L	APHA 5520-B: 23 rd Ed.	5.7	10

*** END OF REPORT ***

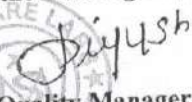
Remarks:

- Test values are reported based on the samples received
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Checked By


Technical Manager
(Hassan Ahmad Khan)

Authorized Signatory


Quality Manager
(Piyush Ranjan)



ISO 9001 : 2015 CERTIFIED COMPANY OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecplmdp@gmail.com




TEST REPORT

Unique Lab Report No. (ULR No.)		TC994823000000636F	
Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit-H. A. Sponge & Power	Work order No.-	15382045 (Date-06.03.2023)
		Type of Industry	Iron & Steel Industry
Address	At & P.O- Marar, Ramgarh Industrial Area, Ramgarh, Dist- Ramgarh State- Jharkhand	Sample Collected by	Ranjeet Yadav
		Discipline	Chemical
Date of Sampling	04.04.2023	Group	Water & Residues in Water
Type of Sample	Water	Sample Condition	Sealed & Preserved
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/98/WT-55	Location	Near Canteen (Bore Well 01)
Period of Analysis	04.04.2023 to 07.04.2023	Report Release Date	07.04.2023
Metrological information	Average Ambient Temperature- 28.0°C, Barometric Pressure-752 mm Hg Relative Humidity-41%, Weather Condition- Clear		

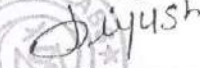
TEST RESULTS

Sl. No.	Parameters	Unit	Test Method	Minimum Detection Limit in mg/L	Results	Acceptable Limit as per IS 10500: 2012	Permissible Limit as per IS 10500: 2012
1	pH @ 25°C	---	IS 3025 Part-11:2017	2.0	6.57	6.5- 8.5	6.5- 8.5
2	Conductivity	µS/cm	IS 3025 Part-14:2019	1.0	3110.0	Not specified	Not Specified
3	Turbidity	NTU	IS 3025 Part-10:2019	0.1	1.2	1.0	5.0
4	Odour	---	IS 3025 Part-05:2019	Qualitative	Agreeable	Agreeable	Agreeable
5	Colour	Hazen	IS 3025 Part-04:2017	1.0	10.0	5.0	15.0
6	Total Dissolved Solids @ 180°C	mg/L	IS 3025 Part-16:2017	2.0	1772.1	500.0	2000.0
7	Total Alkalinity as CaCO ₃	mg/L	IS 3025 Part-23:2017	0.5	109.3	200.0	600.0
8	Total Hardness as CaCO ₃	mg/L	IS 3025 Part-21:2017	1.0	550.8	200.0	600.0
9	Calcium as Ca	mg/L	IS 3025 Part-40:2017	1.0	131.6	75.0	200.0
10	Magnesium as Mg	mg/L	IS 3025 Part-46:2017	1.0	48.6	30.0	100.0
11	Chloride as Cl	mg/L	IS 3025 Part 32: 2017	1.0	409.20	250.0	1100.0
12	Fluoride as F	mg/L	IS 3025 Part 60: 2017	0.05	0.9	1.0	1.5

Checked By


Technical Manager
(Hassan Ahmad Khan)

Authorized Signatory


Quality Manager
(Piyush Ranjan)

Page 1 of 2



ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Sl. No.	Parameters	Unit	Test Method	Minimum Detection Limit in mg/L	Results	Acceptable Limit as per IS 10500: 2012	Permissible Limit as per IS 10500: 2012
13	Sulphate	mg/L	IS 3025 Part 24: 2017	1.0	151.3	200.0	400.0
14	Arsenic	mg/L	IS 3025 Part 37: 2017	0.05	BDL	0.01	0.05
15	Total Chromium as Cr	mg/L	IS 3025 Part 52i: 2017	0.03	BDL	0.05	0.05
16	Iron as Fe	mg/L	IS 3025 Part 53a: 2017	0.075	0.18	0.3	0.3
17	Copper as Cu	mg/L	IS 3025 Part 42a: 2017	0.03	BDL	0.05	1.5
18	Lead as Pb	mg/L	IS 3025 Part 47iv: 2017	0.03	BDL	0.01	0.01
19	Zinc as Zn	mg/L	IS 3025 Part 49i: 2017	0.02	0.36	5	15.0

*** END OF REPORT ***

Note: BDL = Below Detection Limit

Remarks:

- Test values are reported based on the samples received
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Checked By

Technical Manager
(Hassan Ahmad Khan)

Authorized Signatory



Quality Manager
(Piyush Ranjan)





Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit-H. A. Sponge & Power	Work order No.-	15382045 (Date-06.03.2023)
Address	At & PO- Marar, Ramgarh Industrial Area, Ramgarh, Dist- Ramgarh State- Jharkhand	Type of Industry	Iron & Steel Industry
Discipline	Chemical	Sample Collected by	Ranjeet Yadav
Date of Sampling	04.04.2023	Group	Water & Residues in Water
Type of Sample	Water	Sample Condition	Sealed & Preserved
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/98/WT-55	Location	Near Canteen (Bore Well 01)
Period of Analysis	04.04.2023 to 07.04.2023	Report Release Date	07.04.2023
Metrological information	Average Ambient Temperature- 28.0°C, Barometric Pressure-752 mm Hg Relative Humidity-41%, Weather Condition- Clear		

TEST RESULTS

Sl. No.	Parameters	Unit	Test Method	Minimum Detection Limit in mg/L	Results	Acceptable Limit as per IS 10500: 2012	Permissible Limit as per IS 10500: 2012
1	Taste	---	IS 3025 Part-07:2019	Qualitative	Agreeable	Agreeable	Agreeable
2	Phenolic Compound	mg/L	APHA 5530 C: 23 rd Ed	0.001	0.47	0.001	0.002
3	Hexavalent Chromium	mg/L	APHA 3500 B: 23 rd Ed	0.01	BDL	Not Specified	Not Specified
4	Sodium as Na	mg/L	APHA 3500 Na B	1.0	79.0	Not Specified	Not Specified
5	Potassium as K	mg/L	APHA 3500 K B	1.0	6.0	Not Specified	Not Specified
6	Cadmium as Cd	mg/L	APHA 3500 Cd D	0.0005	BDL	0.003	0.003
7	Mercury as Hg	mg/L	APHA 3500 Hg	0.0003	BDL	0.001	0.001
8	Selenium as Se	mg/L	APHA 3500 Se	0.05	BDL	0.01	0.01
9	Total Coliform	MPN/100 ml	APHA 9221 B	-	Absent	Shall not be detected in any 100 ml sample	Shall not be detected in any 100 ml sample
10	Fecal Coliform	MPN/100 ml	APHA 9221 E	-	Absent	Shall not be detected in any 100 ml sample	Shall not be detected in any 100 ml sample

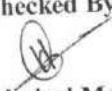
*** END OF REPORT ***

Note: BDL = Below Detection Limit

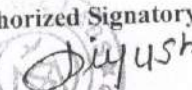
Remarks:

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Checked By


Technical Manager
(Hassan Ahmad Khan)



Authorized Signatory

Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY * OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecplmdp@gmail.com



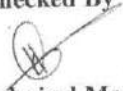
TEST REPORT

Unique Lab Report No. (ULR No.)		TC99482300000637F	
Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit-H. A. Sponge & Power	Work order No.-	15382045 (Date-06.03.2023)
		Type of Industry	Iron & Steel Industry
Address	At & P.O- Marar, Ramgarh Industrial Area, Ramgarh, Dist- Ramgarh State- Jharkhand	Sample Collected by	Ranjeet Yadav
		Discipline	Chemical
Date of Sampling	04.04.2023	Group	Water & Residues in Water
Type of Sample	Water	Sample Condition	Sealed & Preserved
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab
		Location	Near DRI Pump House (Bore Well 02)
Sample ID	SCECPL/TR/23/98/WT-56	Report Release Date	07.04.2023
Period of Analysis	04.04.2023 to 07.04.2023	Sampling Method	IS 3025 : Part 1
Metrological information	Average Ambient Temperature- 28.0°C, Barometric Pressure-752 mm Hg Relative Humidity-41%, Weather Condition- Clear		

TEST RESULTS

Sl. No.	Parameters	Unit	Test Method	Minimum Detection Limit in mg/L	Results	Acceptable Limit as per IS 10500: 2012	Permissible Limit as per IS 10500: 2012
1	pH @ 25°C	---	IS 3025 Part-11:2017	2.0	6.87	6.5- 8.5	6.5- 8.5
2	Conductivity	µS/cm	IS 3025 Part-14:2019	1.0	2386.0	Not specified	Not Specified
3	Turbidity	NTU	IS 3025 Part-10:2019	0.1	0.6	1.0	5.0
4	Odour	---	IS 3025 Part-05:2019	Qualitative	Agreeable	Agreeable	Agreeable
5	Colour	Hazen	IS 3025 Part-04:2017	1.0	5.0	5.0	15.0
6	Total Dissolved Solids @ 180°C	mg/L	IS 3025 Part-16:2017	2.0	1360.4	500.0	2000.0
7	Total Alkalinity as CaCO ₃	mg/L	IS 3025 Part-23:2017	0.5	103.0	200.0	600.0
8	Total Hardness as CaCO ₃	mg/L	IS 3025 Part-21:2017	1.0	526.3	200.0	600.0
9	Calcium as Ca	mg/L	IS 3025 Part-40:2017	1.0	157.8	75.0	200.0
10	Magnesium as Mg	mg/L	IS 3025 Part-46:2017	1.0	34.1	30.0	100.0
11	Chloride as Cl	mg/L	IS 3025 Part 32: 2017	1.0	379.22	250.0	1100.0
12	Fluoride as F	mg/L	IS 3025 Part 60: 2017	0.05	1.8	1.0	1.5

Checked By


Technical Manager
(Hassan Ahmad Khan)

Authorized Signatory


Quality Manager
(Piyush Ranjan)



Page 1 of 2

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Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Sl. No.	Parameters	Unit	Test Method	Minimum Detection Limit in mg/L	Results	Acceptable Limit as per IS 10500: 2012	Permissible Limit as per IS 10500: 2012
13	Sulphate	mg/L	IS 3025 Part 24: 2017	1.0	189.3	200.0	400.0
14	Arsenic	mg/L	IS 3025 Part 37: 2017	0.05	BDL	0.01	0.05
15	Total Chromium as Cr	mg/L	IS 3025 Part 52i: 2017	0.03	BDL	0.05	0.05
16	Iron as Fe	mg/L	IS 3025 Part 53a: 2017	0.075	0.17	0.3	0.3
17	Copper as Cu	mg/L	IS 3025 Part 42a: 2017	0.03	BDL	0.05	1.5
18	Lead as Pb	mg/L	IS 3025 Part 47iv: 2017	0.03	BDL	0.01	0.01
19	Zinc as Zn	mg/L	IS 3025 Part 49i: 2017	0.02	0.29	5	15.0


*** END OF REPORT ***

Note: BDL = Below Detection Limit

Remarks:

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Checked By


Technical Manager
(Hassan Ahmad Khan)

Authorized Signatory


Quality Manager
(Piyush Ranjan)





Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit-H. A. Sponge & Power	Work order No.-	15382045 (Date-06.03.2023)
Address	At & P.O- Marar, Ramgarh Industrial Area, Ramgarh, Dist- Ramgarh State- Jharkhand	Type of Industry	Iron & Steel Industry
		Sample Collected by	Ranjeet Yadav
Discipline	Chemical	Group	Water & Residues in Water
Date of Sampling	04.04.2023	Sample Condition	Sealed & Preserved
Type of Sample	Water	Sample Drawn By	Sabz Care Lab
Sample Details	Ground Water	Location	Near DRI Pump House (Bore Well 02)
Sample ID	SCECPL/TR/23/98/WT-56	Report Release Date	07.04.2023
Period of Analysis	04.04.2023 to 07.04.2023	Sampling Method	IS 3025 : Part 1
Metrological information	Average Ambient Temperature- 28.0 ^o C, Barometric Pressure-752 mm Hg Relative Humidity-41%, Weather Condition- Clear		

TEST RESULTS

Sl. No.	Parameters	Unit	Test Method	Minimum Detection Limit in mg/L	Results	Acceptable Limit as per IS 10500: 2012	Permissible Limit as per IS 10500: 2012
1	Taste	---	IS 3025 Part-07:2019	Qualitative	Agreeable	Agreeable	Agreeable
2	Phenolic Compound	mg/L	APHA 5530 C: 23 rd Ed	0.001	BDL	0.001	0.002
3	Hexavalent Chromium	mg/L	APHA 3500 B: 23 rd Ed	0.01	BDL	Not Specified	Not Specified
4	Sodium as Na	mg/L	APHA 3500 Na B	1.0	73.0	Not Specified	Not Specified
5	Potassium as K	mg/L	APHA 3500 K B	1.0	7.0	Not Specified	Not Specified
6	Cadmium as Cd	mg/L	APHA 3500 Cd D	0.0005	BDL	0.003	0.003
7	Mercury as Hg	mg/L	APHA 3500 Hg	0.0003	BDL	0.001	0.001
8	Selenium as Se	mg/L	APHA 3500 Se	0.05	BDL	0.01	0.01
9	Total Coliform	MPN/100 ml	APHA 9221 B	-	Absent	Shall not be detected in any 100 ml sample	Shall not be detected in any 100 ml sample
10	Fecal Coliform	MPN/100 ml	APHA 9221 E	-	Absent	Shall not be detected in any 100 ml sample	Shall not be detected in any 100 ml sample

*** END OF REPORT ***

Note: BDL = Below Detection Limit

Remarks:

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- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Checked By

Technical Manager
(Hassan Ahmad Khan)



Authorized Signatory
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



Sabz Care
Environmental Consultancy Pvt. Ltd.



lets start thinking about nature for tomorrow
Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017


TEST REPORT

Unique Lab Report No. (ULR No.)		TC99482300000638F	
Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit-H. A. Sponge & Power	Type of Industry	Iron & Steel Industry
Address	At & P.O- Marar, Ramgarh Industrial Area, Ramgarh, Dist- Ramgarh State- Jharkhand	Sample Collected by	Ranjeet Yadav
Discipline	Chemical	Group	Water & Residues in Water
Date of Sampling	04.04.2023	Sample Condition	Scaled & Preserved
Type of Sample	Water	Sample Drawn By	Sabz Care Lab
Sample Details	Ground Water	Location	Near Power Plant (Bore Well 03)
Sample ID	SCECPL/TR/23/98/WT-57	Report Release Date	07.04.2023
Period of Analysis	04.04.2023 to 07.04.2023	Sampling Method	IS 3025 : Part 1
Metrological information	Average Ambient Temperature- 28.0°C, Barometric Pressure-752 mm Hg Relative Humidity-41%, Weather Condition- Clear		

TEST RESULTS

Sl. No.	Parameters	Unit	Test Method	Minimum Detection Limit in mg/L	Results	Acceptable Limit as per IS 10500: 2012	Permissible Limit as per IS 10500: 2012
1	pH @ 25°C	---	IS 3025 Part-11:2017	2.0	6.53	6.5- 8.5	6.5- 8.5
2	Conductivity	µS/cm	IS 3025 Part-14:2019	1.0	2171	Not specified	Not Specified
3	Turbidity	NTU	IS 3025 Part-10:2019	0.1	1.8	1.0	5.0
4	Odour	---	IS 3025 Part-05:2019	Qualitative	Agreeable	Agreeable	Agreeable
5	Colour	Hazen	IS 3025 Part-04:2017	1.0	5.0	5.0	15.0
6	Total Dissolved Solids @ 180°C	mg/L	IS 3025 Part-16:2017	2.0	1259.1	500.0	2000.0
7	Total Alkalinity as CaCO ₃	mg/L	IS 3025 Part-23:2017	0.5	91.0	200.0	600.0
8	Total Hardness as CaCO ₃	mg/L	IS 3025 Part-21:2017	1.0	518.1	200.0	600.0
9	Calcium as Ca	mg/L	IS 3025 Part-40:2017	1.0	139.8	75.0	200.0
10	Magnesium as Mg	mg/L	IS 3025 Part-46:2017	1.0	40.7	30.0	100.0
11	Chloride as Cl	mg/L	IS 3025 Part 32: 2017	1.0	266.22	250.0	1100.0
12	Fluoride as F	mg/L	IS 3025 Part 60: 2017	0.05	1.9	1.0	1.5

Checked By


Technical Manager
(Hassan Ahmad Khan)

Authorized Signatory


Quality Manager
(Piyush Ranjan)



ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Sl. No.	Parameters	Unit	Test Method	Minimum Detection Limit in mg/L	Results	Acceptable Limit as per IS 10500: 2012	Permissible Limit as per IS 10500: 2012
13	Sulphate	mg/L	IS 3025 Part 24: 2017	1.0	193.3	200.0	400.0
14	Arsenic	mg/L	IS 3025 Part 37: 2017	0.05	BDL	0.01	0.05
15	Total Chromium as Cr	mg/L	IS 3025 Part 52i: 2017	0.03	BDL	0.05	0.05
16	Iron as Fe	mg/L	IS 3025 Part 53a: 2017	0.075	0.20	0.3	0.3
17	Copper as Cu	mg/L	IS 3025 Part 42a: 2017	0.03	BDL	0.05	1.5
18	Lead as Pb	mg/L	IS 3025 Part 47iv: 2017	0.03	BDL	0.01	0.01
19	Zinc as Zn	mg/L	IS 3025 Part 49i: 2017	0.02	0.35	5	15.0

*** END OF REPORT ***

Note: BDL = Below Detection Limit

Remarks:

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Checked By

Technical Manager
 (Hassan Ahmad Khan)

Authorized Signatory

Quality Manager
 (Piyush Ranjan)



**Sabz Care****Environmental Consultancy Pvt. Ltd.***lets start thinking about nature for tomorrow***TEST REPORT**

Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit-H. A. Sponge & Power	Work order No.-	15382045 (Date-06.03.2023)
Address	At & P.O- Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh State- Jharkhand	Type of Industry	Iron & Steel Industry
		Sample Collected by	Ranjeet Yadav
Discipline	Chemical	Group	Water & Residues in Water
Date of Sampling	04.04.2023	Sample Condition	Sealed & Preserved
Type of Sample	Water	Sample Drawn By	Sabz Care Lab
Sample Details	Ground Water	Location	Near Power Plant (Bore Well 03)
Sample ID	SCECPL/TR/23/98/WT-57	Report Release Date	07.04.2023
Period of Analysis	04.04.2023 to 07.04.2023	Sampling Method	IS 3025 : Part 1
Metrological information	Average Ambient Temperature- 28.0°C, Barometric Pressure-752 mm Hg Relative Humidity-41%, Weather Condition- Clear		


TEST RESULTS

Sl. No.	Parameters	Unit	Test Method	Minimum Detection Limit in mg/L	Results	Acceptable Limit as per IS 10500: 2012	Permissible Limit as per IS 10500: 2012
1	Taste	---	IS 3025 Part-07:2019	Qualitative	Agreeable	Agreeable	Agreeable
2	Phenolic Compound	mg/L	APHA 5530 C: 23 rd Ed	0.001	BDL	0.001	0.002
3	Hexavalent Chromium	mg/L	APHA 3500 B: 23 rd Ed	0.01	BDL	Not Specified	Not Specified
4	Sodium as Na	mg/L	APHA 3500 Na B	1.0	77.0	Not Specified	Not Specified
5	Potassium as K	mg/L	APHA 3500 K B	1.0	5.0	Not Specified	Not Specified
6	Cadmium as Cd	mg/L	APHA 3500 Cd D	0.0005	BDL	0.003	0.003
7	Mercury as Hg	mg/L	APHA 3500 Hg	0.0003	BDL	0.001	0.001
8	Selenium as Se	mg/L	APHA 3500 Se	0.05	BDL	0.01	0.01
9	Total Coliform	MPN/100 ml	APHA 9221 B	-	Absent	Shall not be detected in any 100 ml sample	Shall not be detected in any 100 ml sample
10	Fecal Coliform	MPN/100 ml	APHA 9221 E	-	Absent	Shall not be detected in any 100 ml sample	Shall not be detected in any 100 ml sample

***** END OF REPORT *******Note:** BDL = Below Detection Limit**Remarks:**

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Checked By


Technical Manager
 (Hassan Ahmad Khan)




Authorized Signatory
Quality Manager
 (Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Unique Lab Report No. (ULR No.)		TC994823000000626F	
Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit: H.A. Sponge & Power	Work order No.-	15382045(Date-06.03.2023)
Address	At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Type of Industry	Iron & Steel Industry
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	03.04.2023 to 04.04.2023	Sample Collected By	Ranjeet Yadav
Sample ID	SCECPL/TR/23/98/NR-82	Time of Duration	24 Hours
Sample Drawn by	Sabz Care Lab	Remarks	-----
Sample details	Ambient Noise	Report Release Date	07.04.2023
Sampling Method	IS:9989-2014	Plant Status	Operational
Metrological information	Average Ambient Temperature :28.0 °C, Relative Humidity : 41% Barometric Pressure:752 mmHg, Weather Condition - Clear		

Limit in Leq dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.
* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL IN dB(A)				
	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	Leq Mean	Maximum
1. Near New Office	50.2	68.6	56.0	67.9	73.6
2. North-East Direction, Near School	42.0	58.6	43.5	57.4	64.3

*** END OF REPORT ***

Remarks-

- dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.



Authorized Signatory
Piyush Ranjan
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Unique Lab Report No. (ULR No.)		TC99482300000627F	
Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit: H.A. Sponge & Power	Work order No.-	15382045(Date-06.03.2023)
Address	At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Type of Industry	Iron & Steel Industry
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	03.04.2023 to 04.04.2023	Sample Collected By	Ranjeet Yadav
Sample ID	SCECPL/TR/23/98/NR-81	Time of Duration	24 Hours
Sample Drawn by	Sabz Care Lab	Remarks	-----
Sample details	Ambient Noise	Report Release Date	07.04.2023
Sampling Method	IS:9989-2014	Plant Status	Operational
Metrological information	Average Ambient Temperature :28.0 °C, Relative Humidity : 41% Barometric Pressure:752 mmHg, Weather Condition - Clear		

Limit in Leq dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.
* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL IN dB(A)				
	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	Leq Mean	Maximum
1. Near Induction Furnace	55.4	73.8	61.2	73.1	78.8
2. Near Main Gate	51.9	71.5	57.1	70.4	75.3

*** END OF REPORT ***

Remarks-

- dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.



Authorized Signatory
Piyush Ranjan
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : sceclmdp@gmail.com



TEST REPORT

Unique Lab Report No. (ULR No.)		TC994823000000628F	
Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit: H.A. Sponge & Power	Work order No.-	15382045(Date-06.03.2023)
Address	At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Type of Industry	Iron & Steel Industry
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	03.04.2023	Sample Collected By	Ranjeet Yadav & Team
Sample ID	SCECPL/TR/23/98/NR-80	Time of Duration	8 Hours
Sample Drawn by	Sabz Care Lab	Remarks	-----
Sample details	Work Zone Noise	Report Release Date	07.04.2023
Sampling Method	IS:9989-2014	Plant Status	Operational
Metrological information	Average Ambient Temperature :28.0 °C, Relative Humidity : 41% Barometric Pressure:752 mmHg, Weather Condition - Clear		

Work Zone NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL IN dB(A)		
	Minimum	L _{eq} Mean	Maximum
1. Near Crusher House	58.5	74.1	80.4
2. Near Junction Pont	55.1	73.9	79.4

*** END OF REPORT ***

Remarks-

- dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)



ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Unique Lab Report No. (ULR No.)	TC99482300000629F		
Name of Industry	M/s Bihar Foundry & Castings Ltd. Unit: H.A. Sponge & Power	Work order No.-	15382045(Date-06.03.2023)
Address	At + P.O.-Marar, Ramgarh Industrial Area Ramgarh, Dist- Ramgarh, State-Jharkhand	Type of Industry	Iron & Steel Industry
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	04.04.2023	Sample Collected By	Ranjeet Yadav & Team
Sample ID	SCECPL/TR/23/98/NR-62	Time of Duration	8 Hours
Sample Drawn by	Sabz Care Lab	Remarks	-----
Sample details	Work Zone Noise	Report Release Date	07.04.2023
Sampling Method	IS:9989-2014	Plant Status	Operational
Metrological information	Average Ambient Temperature : 28.0 °C, Relative Humidity - 41% Barometric Pressure-752 mmHg, Weather Condition - Clear		

Work Zone NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL IN dB(A)		
	Minimum	L _{eq} Mean	Maximum
1. Near Induction Furnace	59.7	75.1	82.0
2. Near Feed Area	55.1	72.8	78.5

*** END OF REPORT ***

Remarks-

- dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

Authorized Signatory



Piyush
Quality Manager
(Piyush Ranjan)



ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecplmdp@gmail.com



YUGANTAR BHARATI

Annexure 1G



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)
Certified by: - An ISO 9001:2015 & ISO 45001:2018

Test Certificate

Discipline	Chemical	Group	Pollution & Environment	Sample Description	Soil / Sludge & Slurry/ Slag
Report Release Date	10 th April, 2023		Report ID	YBAEEL-230402-113921 - S03	
W. Order/ JSPCB App. No.	N/A		Work Order Date	N/A	
Type of Industry (If any)	Iron & Steel		Job code/ Ref. no.	YBAEEL/WA/LIS/Apr.-23/01	
Report issue to	M/s Bihar Foundry & Castings Limited, H.A. Sponge & Power At & PO - Marar, Ramgarh Industrial Area, Ramgarh, Dist. - Ramgarh, Jharkhand.				
Sampling Date	05/04/2023	Mode of sample collection	By YBAEEL Team		
Sampling Protocol	IS : 3025 (Part-1) 1987, R-2003	Sample Code	230406-S-W03		
Sampling Location	Near SMS Crusher	Sampling Source	Slag		
Sample pkg. Condition	Sealed Pack in PP Bottle	Sample Quantity	1000 gm		
Meteorological Cond. of Field	W.C.- Clear	RH % - 54	Temp. - 27°C		
Sample receipt Date	06/04/2023	Analysis Started on	06/04/2023	Analysis completed on	10/04/2023

*****Test Results*****

Sl	Parameter	Test Method	Units	Results
1.	Iron (as Fe)	USEPA 3050 B : 1996 / APHA 3111 B	ppm	29.3
2.	Zinc (as Zn)	USEPA 3050 B : 1996 / APHA 3111 B	ppm	0.61
3.	Lead (as Pb)	USEPA 3050 B : 1996 / APHA 3111 B	ppm	BDL (MDL 0.02)
4.	Chromium (as Cr)	USEPA 3050 B : 1996 / APHA 3111 B	ppm	0.25
5.	Arsenic (as Cr)	USEPA 3050 B : 1996 / APHA 3114 B	ppm	0.06
6.	Cadmium (as Cd)	USEPA 3050 B : 1996 / APHA 3111 B	ppm	0.18
7.	Cobalt (as Co)	USEPA 3050 B : 1996 / APHA 3111 B	ppm	BDL (MDL 0.01)
8.	Copper (as Cu)	USEPA 3050 B : 1996 / APHA 3111 B	ppm	0.21
9.	Manganese (as Mn)	USEPA 3050 B : 1996 / APHA 3111 B	ppm	BDL (MDL 0.01)
10.	Mercury (as Hg)	USEPA 3050 B : 1996 / APHA 3112 B	ppm	0.09
11.	Nickel (as Ni)	USEPA 3050 B : 1996 / APHA 3111 B	ppm	BDL (MDL 0.01)

*****End of Report*****

Limit is specified as	MDL : Minimum detection limit, BDL : Below detection limit.
Abbreviation	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Env. Condition of Lab	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility
Specific contractual notes	This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	

Sample Drawn By - Angad Munda

Tested By Shivani Kumari Singh (Lab Analyst)	10.04.23	Verified & Issued by Sanjeev Kumar Singh (Technical Manager)	10/04/23
--	----------	--	----------



Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

Branch Office : - Jamshedpur | Dhanbad | Hazaribag | Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand
Ph : 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



Specification For Bag Filter System (Four Sets)					
Sl. No.	Specification bag Filter System	Locations			
		Product House	Cooler Discharge	Crushing Point	I/B /Stock House
1	Type	PULSE JET	PULSE JET	PULSE JET	PULSE JET
2	Gas Volume Capacity	30000 Am ³ /Hr	20000 Am ³ /Hr	20000 Am ³ /Hr	30000 Am ³ /Hr
3	Gas Temperature	60 °C	80 °C	40 °C	40 °C
4	Dust	Sponge iron, Char, dolomite, fines & Lumps	Sponge iron, Char, dolomite, fines & Lumps	Sponge iron, Char, dolomite, fines & Lumps	Sponge iron, Char, dolomite, fines & Lumps
5	Dust Load At inlet	10 - 15 gm/Nm ³	10 - 15 gm/Nm ³	10 - 15 gm/Nm ³	10 - 15 gm/Nm ³
6	Quantity	1 No.	1 No.	1 No.	1 No.
7	Filter bag material	Anti adhesive silicon treated Polyester needled felt wt 500 gm/m ²	Anti adhesive silicon treated Polyester needled felt wt 500 gm/m ²	Anti adhesive silicon treated Polyester needled felt wt 500 gm/m ²	Anti adhesive silicon treated Polyester needled felt wt 500 gm/m ²
8	Max Design Temp	130 °C.	130 °C.	130 °C.	130°C
9	Emission Guaranteed	100 mg/Nm ³	100 mg/Nm ³	100 mg/Nm ³	100 mg/Nm ³
10	No. of Bag	170	117	117	170
11	Stack Height in Meter	30	30	30	30



BIHAR FOUNDRY & CASTINGS LIMITED					
VEHICLE POLLUTION UNDER CONTROL CERTIFICATE DETAILS					
Registration No.	Certificate Serial No.	Type of fuel	Date of testing	Valid till date	Test result
JH02BB0549	JH02400450005882	DIESEL	26.05.2023	25.05.2024	PASS
JH02AL8828	JH02400450005877	DIESEL	26.05.2023	25.11.2023	PASS
JH01BU1337	JH02400450005879	DIESEL	26.05.2023	25.11.2023	PASS
JH01DK9282	JH02400450005880	DIESEL	26.05.2023	25.05.2024	PASS
JH01DQ7041	JH02400450005903	DIESEL	27.05.2023	26.05.2024	PASS
JH01DQ0593	JH02400450005902	DIESEL	27.05.2023	26.05.2024	PASS
JH01AD0368	JH02400450005904	DIESEL	27.05.2023	26.05.2024	PASS



Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Government of Jharkhand

Date : 26/05/2023
Time : 17:18:04 PM
Validity upto : 25/05/2024



Certificate SL. No. : JH02400450005882
Registration No. : JH02BB0549
Date of Registration : 17/Mar/2020
Month & Year of Manufacturing : December-2019
Valid Mobile Number : *****1501
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
PUC Code : JH0240045
GSTIN :
Fees : Rs.300.00
(GST to be paid extra as applicable)
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.32

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
60mm x 20 mm



Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Government of Jharkhand

Date : 26/05/2023
Time : 16:45:30 PM
Validity upto : 25/11/2023



Certificate SL. No. : JH02400450005877
Registration No. : JH02AL8828
Date of Registration : 01/Jun/2016
Month & Year of Manufacturing : February-2015
Valid Mobile Number : *****1501
Emission Norms : BHARAT STAGE III
Fuel : DIESEL
PUC Code : JH0240045
GSTIN :
Fees : Rs.300.00
(GST to be paid extra as applicable)
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm

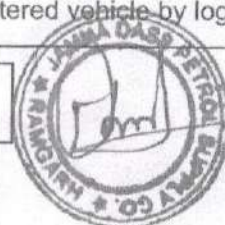


Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.02

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
60mm x 20 mm



Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Government of Jharkhand

Date : 26/05/2023
Time : 16:59:38 PM
Validity upto : 25/11/2023



Certificate SL. No. : JH02400450005879
Registration No. : JH01BU1337
Date of Registration : 16/Nov/2015
Month & Year of Manufacturing : June-2015
Valid Mobile Number : *****1501
Emission Norms : BHARAT STAGE III
Fuel : DIESEL
PUC Code : JH0240045
GSTIN :
Fees : Rs.120.00
(GST to be paid extra as applicable)
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.02

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
60mm x 20 mm



Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Government of Jharkhand

Date : 26/05/2023
Time : 17:05:53 PM
Validity upto : 25/05/2024



Certificate SL. No. : JH02400450005880
Registration No. : JH01DK9282
Date of Registration : 27/Mar/2019
Month & Year of Manufacturing : June-2018
Valid Mobile Number : *****1501
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
PUC Code : JH0240045
GSTIN :
Fees : Rs.300.00
(GST to be paid extra as applicable)
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.02

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
60mm x 20 mm



Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

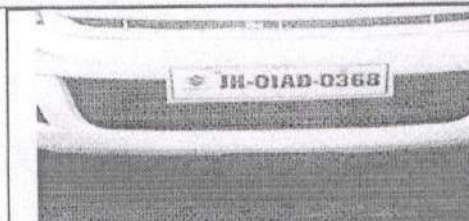
Authorised By :
Government of Jharkhand

Date : 27/05/2023
Time : 17:17:49 PM
Validity upto : 26/11/2023



Certificate SL. No. : JH02400450005904
Registration No. : JH01AD0368
Date of Registration : 08/Jan/2010
Month & Year of Manufacturing : November-2009
Valid Mobile Number : *****1655
Emission Norms : BHARAT STAGE II
Fuel : PETROL
PUC Code : JH0240045
GSTIN :
Fees : Rs.120.00
(GST to be paid extra as applicable)
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)	0.5	0.41
	Hydrocarbon, (THC/HC)	ppm	750.0	24.0
High idling emissions	CO	percentage (%)	0.0	0.0
	RPM	RPM	2500 ± 200	0.0
	Lambda	-	1 ± 0.03	0.0
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
60mm x 20 mm



Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Government of Jharkhand

Date : 27/05/2023
Time : 17:09:42 PM
Validity upto : 26/05/2024



Certificate SL. No. : JH02400450005903
Registration No. : JH01DQ7014
Date of Registration : 16/Sep/2019
Month & Year of Manufacturing : January-2019
Valid Mobile Number : *****1655
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
PUC Code : JH0240045
GSTIN :
Fees : Rs.300.00
(GST to be paid extra as applicable)
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.03

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
60mm x 20 mm



Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Government of Jharkhand

Date : 27/05/2023
Time : 17:02:21 PM
Validity upto : 26/05/2024



Certificate SL. No. : JH02400450005902
Registration No. : JH01DQ0593
Date of Registration : 16/Sep/2019
Month & Year of Manufacturing : January-2019
Valid Mobile Number : *****1655
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
PUC Code : JH0240045
GSTIN :
Fees : Rs.300.00
(GST to be paid extra as applicable)
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.02

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicles by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
60mm x 20 mm





भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)
NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Bihar Foundry And Castings Ltd		
Project Address:	Plot No. 1364 Ramgarh Industrial Area, Village Marar Mandu, Ramgarh		
Town:	Mandu (ct)	Block:	Mandu
District:	Ramgarh	State:	Jharkhand
Pin Code:			
Communication Address:	Director, M/s Bihar Foundry And Castings Limited, Main Road Ranchi-834001, Namkum, Ranchi, Jharkhand - 834001		
Address of CGWB Regional Office :	Central Ground Water Board Mid Eastern Region, 6th & 7th Floor, Lok Nayak Jai Prakash Bhawan, Frazer Road Dak Banglow, Patna, Bihar - 800011		

1. NOC No.:	CGWA/NOC/IND/ORIG/2021/13540																							
2. Application No.:	21-4/733/JH/IND/2021	3. Category: (GWRE 2020)	Semi Critical																					
4. Project Status:	Expansion Of Existing Project	5. NOC Type:	New																					
6. Valid from:	26/03/2021	7. Valid up to:	25/03/2024																					
8. Ground Water Abstraction Permitted:																								
	Fresh Water		Saline Water																					
	Dewatering		Total																					
	m ³ /day	m ³ /year	m ³ /day																					
	m ³ /day	m ³ /year	m ³ /day																					
	m ³ /day	m ³ /year	m ³ /day																					
	300.00	99000.00																						
9. Details of ground water abstraction /Dewatering structures																								
	Total Existing No.:3						Total Proposed No.:0																	
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu												
Abstraction Structure*	0	0	3	0	0	0	0	0	0	0	0	0												
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps																								
10. Ground Water Abstraction/Restoration Charges paid (Rs.):	891000.00																							
11. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers						Monitoring Mechanism																	
	Manual						DWLR**						DWLR With Telemetry											
	1						0						1						0					
**DWLR - Digital Water Level Recorder																								

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jannagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in



पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

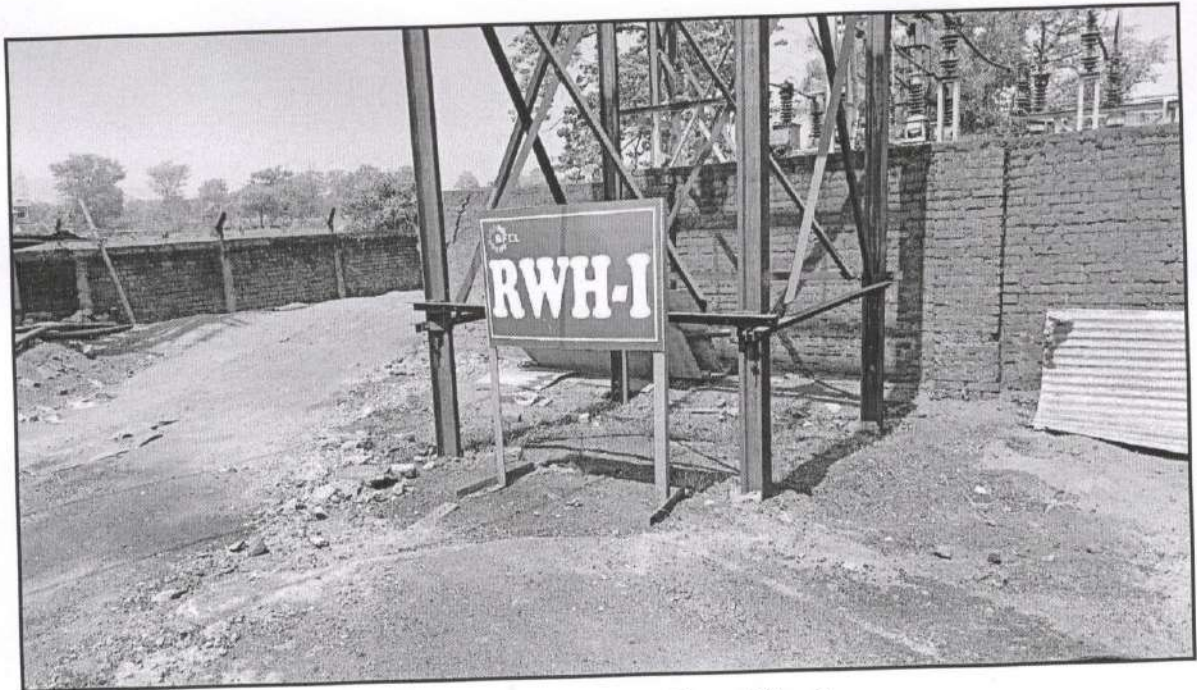
General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)



Rainwater Harvesting Pits



Rainwater Harvesting Pits 1



Rainwater Harvesting Pits 2



Letter No. 7/EP 1015 /2022 अ०नि०(मु०का०नि०)- 303
OFFICE OF THE CHIEF INSPECTOR OF FACTORIES, JHARKHAND, RANCHI.
 LABOUR BUILDING, DORANDA, RANCHI-834002
 (Email ID- cifoffice123@gmail.com)

From,
Chief Inspector of Factories, Jharkhand,
 Ranchi.

To,
The Occupier,
 M/s Bihar Foundry and Castings Ltd
 Unit H A Sponge and Power,
 Marar, Ramgarh Industrial Area
 District: Ramgarh- 829117

Ranchi, Date : 20-04-2022

Subject: Recommendation of On-site Emergency Plan of M/s Bihar Foundry and Castings Ltd Unit H A Sponge and Power, Marar, Ramgarh Industrial Area, Ramgarh

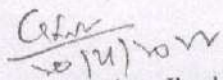
Reference: Your letter dated-06.04.2022.

This has reference to your letter date-06.04.2022 along with On-site Emergency Plan which consists of total forty seven (47) pages. The submitted emergency plan has been verified and examined. The above on site emergency plan is recommended subject to the following conditions: -

1. Regular Mock- drill shall be carried out in the factory at least once in every year and the report shall be made available to the area Inspector of Factories and Chief Inspector of Factories.
2. The safety audit shall be conducted by experienced competent person/ Agency/Institutions. The safety audit report, health & safety policy, Hazard analysis report & fire load calculation report shall be submitted.
3. The Emergency Plan will be up-dated and revised as per modification in the plant.
4. Adequate arrangement of medical/relief facilities (first aid equipments etc.) shall be provided and maintained in the emergency control room.
5. Telephone number of key persons to be noted and displayed in the central control room.
6. The Independent power back-up facility for Emergency Control Room shall be provided.

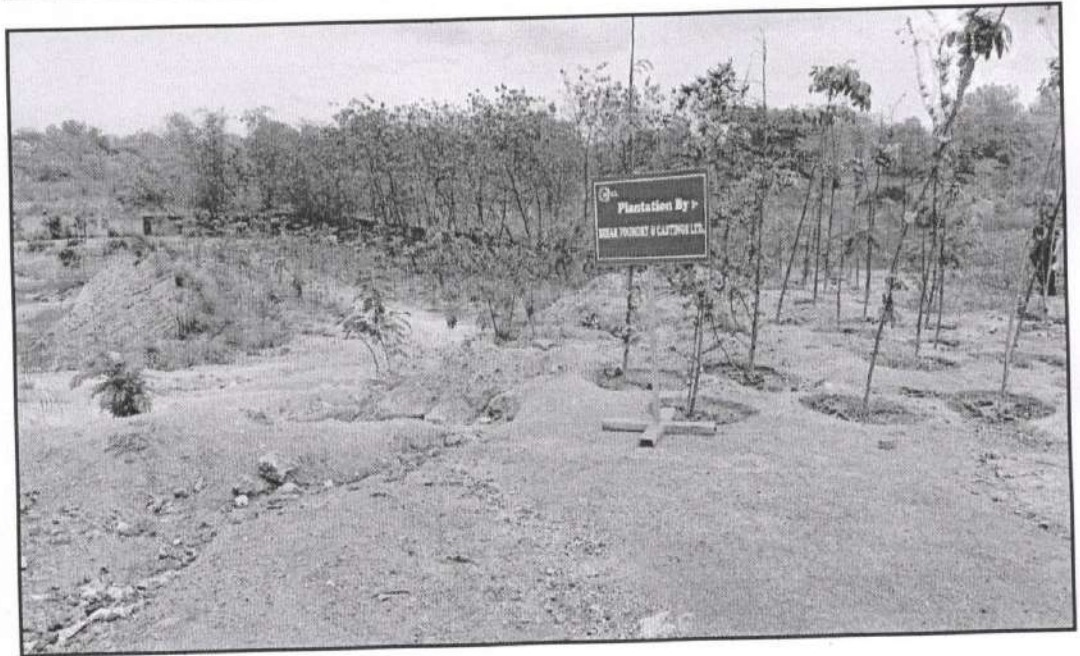
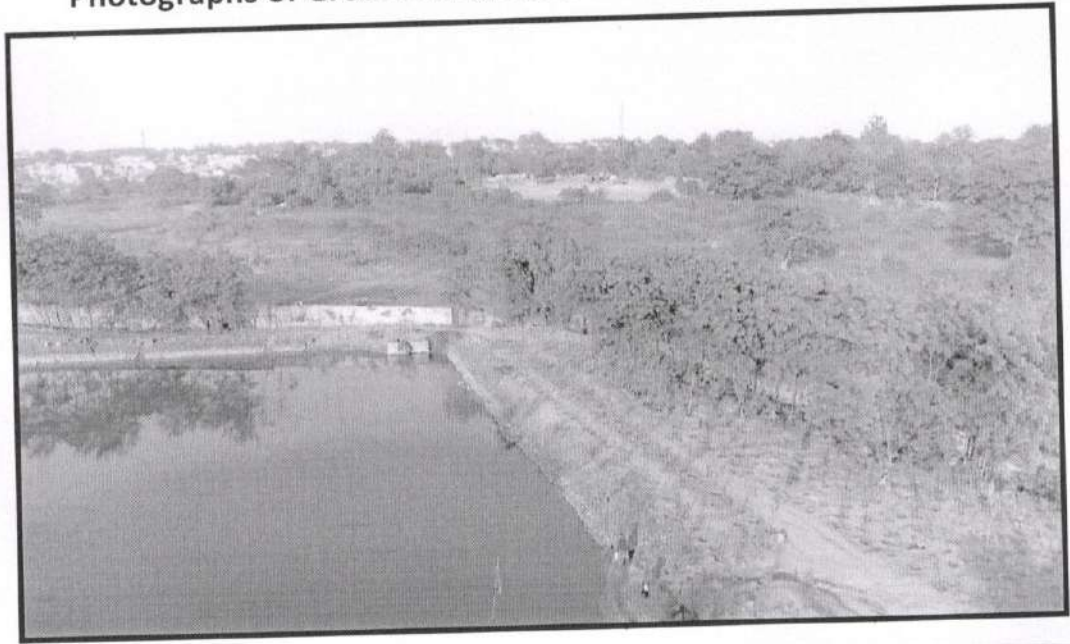
Encl: A copy of the recommended plan is enclosed herewith.

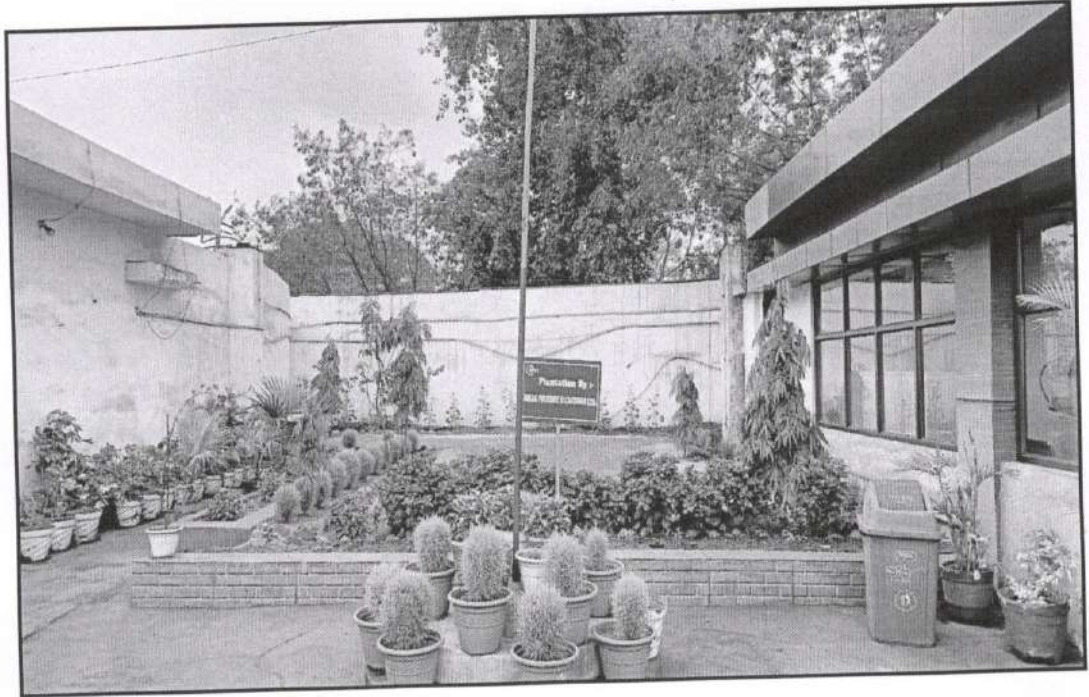
Yours faithfully,


 Chief Inspector of Factories, Jharkhand,
 Ranchi



Photographs of Greenbelt at Bihar Foundry & Castings Ltd.





BIHAR FOUNDRY & CASTINGS LIMITED

CSR EXPENDITURES FOR THE PERIOD OF OCTOBER 2022 TO MARCH 2023

S. No.	Expenditure Heads	Beneficiary Name	Purpose	Amount INR
1	WOMEN EMPOWERMENT	Usha International Ltd.	Women training of tailoring	180,983
Subtotal 'A'				180,983
2	COMMUNITY WELFARE	Mahar Shyamdhani Datar	-	21,000
3		Richa Prasad	Livelihood Support	30,000
4		Ranjit Sharma	Livelihood Support	9,000
5		Food Distribution	Food for needy people	239,840
6		Police Barrier	26 Nos. of Police Barrier	168,114
7		NRI Public Toilet	For public Toilet	3,375
8		Baba Fabricator / SSK Electricals Equipments LLP	Beautification work of Veer Kunwar Singh Statue	28,400
9		Pritam Kumar Jha	Maha Aarti (Rajrappa)	55,000
10		Mamta Devi	For making of her house	104,236
11		Narendra Mahto	Provide Hearing Aid for a deaf person	17,990
12		Bagaria Furniture	Visitors Chair	22,881
13		Sri Sri Kali Puja Samiti	Renovate existing temple	500,000
14		Shri Ram Handloom Industries / Shri Ram Handloom Industries / Maa Annapurna Transport Agency Pvt. Ltd.	Donation of Blanket to the needy and poor people	476,010
15		Nasrun Praveen	Daughter marriage support (Sabia Praveen)	25,000
16		Sign Board	Sign Board	35,000
17		Surati Devi	She is living alone (for livelihood support)	4,500
18		Sage Saint	Vehicle arrangement to go Ganga sagar yatra	21,884
19		Onkar Old Age Home	Providing food grains to an oldage home	4,975
20		Shafina Khatoon	Daughter's Marriage Support	25,000
21		Pankaj Kumar Mandilwar	Daughter's Marriage Support	25,000
22		Rakesh Kumar Gupta	Son's Cremation Support	25,000
23		Bimal Mandal	Wife Cremation Support	25,000
24		Prabha Devi	Husband Cremation Support	25,000
25		Shyam Singh	Wife Cremation Support	25,000
26		Sanjit Kumar	Eye Checkup & purchasing of spectacles	20,264



S. No.	Expenditure Heads	Benifeciary Name	Purpose	Amount INR
27		Junior Chamber International	To Celebrating Republic day	7,000
28		Ranchi Ayyappa Seva Samithy	As donation towards conctruction of the Sree Ayyappa Temple at Ranchi	250,000
29		Sunita Devi	In daughter's Marriage Tent and Rasion (food grains) support	73,267
30		Ashok Prasad Soni	Auto Repairing	29,750
31		Oldage & Orphanage Home	Provide necessary materials	204,953
32		Jyoti Kabra	Husband Crematon Support	50,000
33		Puja Devi Sah	LPG expenses support	6,666
Subtotal 'B'				2,559,105
34	EDUCATION	Rajkiya Madya Vidyalay, Ranchi Road	Bench-Desk- 20 nos. / Submersible with pipeline connection / Civil work for bathroom / Shatter gate for computer class room	178,487
35		Government School	Distribution of School bags & Geometry Boxes	300,230
36		UMMID SPECIAL SCHOOL (Cantonment Board)	Hearing Aids, Wheelchairs, Carom Board, Football, Wooden Puzzle, Kids Cartoon	89,950
37		Skill Development Assistance	Assembled Desktop Computer (20 Nos.)	386,130
38		Khushi Kabra (d/o Sanjay Kabra)	School Fees (Nov-22- Mar-23)	13,950
39		A1 Public School	Development Work	911,722
40		Utkramit Ucchay Vidyalay Manua	School Development Work	68,812
41		Mr. Ranjit	Daughter's laptop repairing	2,797
42		Faruk Ansari	Higher educational of two years diploma course in D.OPTH	60,000
43		Rinki Kumari	2 Daughters education support	103,366
44		Sanjit Kumar	2 Daughters education support	15,300
45		Y.A.BENEFIT TRUST	For School development work at Gumla (Jharkhand) trible school	251,000
46		Sanjit Kumar	2 Daughters (Ms Sakshi & Sonakshi) education support	150,800
47		Govt. Middle School, Koritola	Provided 4 nos. of Library Almirah, drinking water facilities	77,970
Subtotal 'C'				2,610,514



S. No.	Expenditure Heads	Beneficiary Name	Purpose	Amount INR
48	HEALTH & MEDICAL	Priti Pandey	Pancreas and Liver Cancer	175,000
49		Sanjay Kabra	Heart Failure (For Ventilator) / Heart Failure (Admitted in ICU)	200,000
50		Suman Acharya	Bone fracture (ILAIZAROV for infected IV fracture distal femur)	158,425
51		Abhishek Kumar Pandey	Accidentally suffering from Brain Hemorrhage & some bone fractures	23,389
52		Jay Prakash Singh	Umbilical Hernia with Liver Cirrhosis	192,053
53		Sagar Kumar Paswan	Ileostomy Closure Disease	94,438
54		Shankar Prasad	IBD patient	95,021
55		Harsh Gupta	Medical treatment (Accidental Victim)	439,533
56		Siddhi Vinayak Medical & Surgical	Medical Kit	12,321
57		Master SAMAR MISHRA	Treatment of Heart Disease	200,000
58		Daso Devi	Right leg fractured	73,847
59		Shri Krishn Bihari Pandey	Postrate Cancer	15,000
60		Narendra Sit	Hearing Aids Support	18,490
61		Tej Kumar Pradhan	Medicine expenses of Lungs Cancer patient	240,000
62		Dikshita Mahato	Bone Marrow Transplant	400,000
63		Ashwin Mathew	Liver Transplant	300,000
64		Chhaya Mandal	Brain Haemorrhage Treatment	300,000
65		Prem Chandra Kumar	Medical treatment his both leg (Amputated Leg)	386,350
66		Brajesh Prajapati	Mouth Cancer- Stage II Treatment Support	349,905
67		Rashid Ansari	Gallbladder Stone Surgery Support	43,725
68	Khwahish Goel	Medical Treatment	590,380	
69	Sita Devi	Mother of Dipti Kumari (Archary) Medical treatment at Medanta	39,733	
70	Mr. Dilip Senapati	Medical Treatment of L3-L4 Prolapsed Intervertenral Disc	300,000	
Subtotal 'D'				4,647,610
71	SPORT	Raj Sports Company	Being provided Football Jersey at Sagrampur, Gola	12,277
72		S M ENTERPRISES	Volleyball Jersey	13,500
73		Jharkhand State Table Tennis Association	Sponsered Table Tennis	175,000
74		Raising Cricket Academy	Sponsering T(12) Knockout Cricket Tournament	31,000
75		Yuva Cricket Tournament	Sponsering Cricket Tournament	15,000
Subtotal 'E'				246,777
Grand Total (A+B+C+D+E)				10,244,989



Bihar Foundry & Castings Limited
Industrial Area Marar Dist- Ramgarh Jharkhand-829117

CHARTER ON CORPORATE RESPONSIBILITY

S. No.	Action Point	Action taken	Proposed action with activity
01.	Fugitive emission	We have installed fixed water sprinklers 69 nos. were installed within the industrial plant. Mobile water tankers also regularly move and sprinkle water in the dust prone areas.	Continuing efforts to install more fixed sprinklers.
02.	Solid Waste	Solid waste such as Dolochar has been utilized as fuel in AFBC Based Power Plant in cluster.	Part of Dolochar Char will be utilized in AFBC Based Power Plant. Slag is being utilized in filling Low laying area,
03.	Inventorization of the Hazardous waste (M&H) Rules, 2016	All the hazardous waste such as used spent oil shall be self reused and sold to authorized recycler.	1. We are in practice of safe & scientific handling of waste lubricating oil. 2. We have sent solid waste sample for detailed analysis to NABL accredited laboratory. 3. Previously, we have submitted solid waste analysis report to JSPCB.
04.	Water conservation	We have constructed a pond for water conservation as well as stored water uses in process.	Reutilization of the waste water i.e. treated water is being utilized for sprinkling on road.
05.	Online Ambient Air Quality Monitoring System	We have already installed Online Ambient air quality monitoring system for PM10 parameter.	-
06.	On line stack monitoring system	We have already installed Online Stack Monitoring System for PM in our Two Stacks and are doing stack monitoring on periodically basis.	-
07.	To operate existing Pollution Control System Effectively Compliance report to be submitted JSPCB/CPCB.	We are already maintaining ESP running hours & regular data is submitted to JSPCB.	-
08.	To adopt clean technologies. Measure to improve the	We are in process to improve performance of the industry day by day not only	We have Already installed three nos VFDs in WHRB Boilers connected with sponge iron Kilns



S. No.	Action Point	Action taken	Proposed action with activity
	performance of industry towards production, energy & environment.	in the production but also in conservation of energy and environment.	by which we achieved:- 1. Clean environment 2. Waste gas Utilization for power generation.
	B. Rain water harvesting	Rain water harvesting measures is already adopted by the Industry	We have already two locations Rain water harvesting system at DRI & SMS area.
	C. Resource Conservation such as raw material, energy and water consumption.	We are already using waste heat for power generation.	-
09.	Up-gradation of Environmental Management Cell	Presently we have a separate Environmental Management Cell for regular day to day working.	We are in process to regular improvement / up gradation of regarding method and instrumentation.
	Also to impart elaborate training to manpower	We have people specialized in environment and horticulture field. They are also participating in different training programme /seminar, which are organized by different organizations.	A corporate plane is under preparation and consideration for elaborated specialized training at relevant organizations/Statutory body.
10.	House keeping improvement	Regular efforts are being made for cleaning the plant site.	Continual improvements in house keeping field are being adopted by us.



Bihar Foundry & Castings Limited

Occupational Health Medical Examination

Annexure 10

MEDICAL CHECKUP LIST

SL NO.	UHID NO.	NAME	AGE	SEX	MOBILE NO.	EMP. CODE
1	APP341	SUKHDEV PARJAPATI	45	M	7667643798	DRI330
2	APP342	MAHENDRA MAHATO	26	M	9586852282	DRI508
3	APP343	PARSHANT KR. JENA	44	M	9638403002	DRI453
4	APP344	DEVENDAR KUMAR	32	M	8434410146	DRI013
5	APP345	BISWARANJAN ROUT	44	M	9408729168	DRI450
6	APP346	MOTI BEDYA	42	M	7644883905	DRI288
7	APP347	BIBHU DUTTA PATTSANI	24	M	9178260916	DRI517
8	APP348	RAMESH RAY	44	M	6201861587	DRI021
9	APP349	KALIM KHAN	35	M	8002160452	DRI498
10	APP350	BIPIN KUMAR UPADHYAY	55	M	6287757966	DRI353
11	APP351	PRAVEEN KUMAR	24	M	9113180514	DRI340
12	APP352	GOBIND KUMAR BEDIA	28	M	8092841296	DRI278
13	APP353	GANESH BEDIA	35	M	8651621851	DRI556
14	APP354	TRIPURARI SINGH	35	M	9771602146	DRI060
15	APP355	RAJENDRA RAJAK	46	M	9798376961	DRI056
16	APP356	MD. AHMED	52	M	6200981292	DRI480
17	APP357	DHEERAJ SINGH	55	M	8109324988	DRI067
18	APP358	ASHOK BEDIYA	45	M	7257885840	DRI085
19	APP359	KRISHNA GOPE	30	M	7761846811	DRI086
20	APP360	BIRU BEDIA	44	M	8864002410	DRI087
21	APP361	SURAJ BEDIA	35	M	9631483161	DRI083
22	APP362	AJIT KUMAR TIWARI	44	M	9504449892	DRI458
23	APP363	SUBHAM PATHAK	27	M	7667603325	DRI133
24	APP364	ANIL BEDIA	32	M	8651418875	DRI137
25	APP365	RAMESH GOPE	28	M	7461908425	DRI535
26	APP366	CHANDAN RAY	36	M	9473076610	DRI465
27	APP367	BINOD KUMAR	31	M	8340603035	DRI550
28	APP368	FAIZAL MANSOOR	28	M	9712539528	DRI444
29	APP369	SANJAY KUMAR PARJAPATI	34	M	8789539443	DRI462
30	APP370	ARJUN MUNDA	27	M	6203145283	DRI046
31	APP371	CHEDI BEDIYA	48	M	8757731916	DRI528
32	APP372	RAMLAL PARJAPATI	50	M	8271952332	DRI494
33	APP373	ASHOK MAHATO	45	M	8757777638	DRI175
34	APP374	PANNU MAHATO	48	M	9934920409	DRI326
35	APP375	BALESHWAR BEDIYA	50	M	8348716658	DRI169
36	APP376	DASRATH ORAON	51	M	8409173822	DRI176
37	APP377	DINESH GHASI	38	M	6209223638	DRI396
38	APP378	KRISHNA KUMAR	29	M	9576897201	DRI570
39	APP379	TUMAN NAYAK	33	M	7061464935	DRI411
40	APP380	RAM BALAK SAW	53	M	9546257460	DRI502
41	APP381	GORA MAHTO	26	M	8825240633	DRI107
42	APP382	RAVI KUMAR	25	M	9931264748	DRI065
43	APP383	SHANKAR YADAV	44	M	7909087110	DRI110
44	APP384	ANIMESH SHRIWASTAVA	26	M	9801441152	DRI511
45	APP385	BINDESHWAR PARJAPATI	55	M	7377739720	DRI236
46	APP386	MAHESH RAM	45	M	8102502284	DRI269
47	APP387	JITENDER NAYAK	33	M	6207911077	DRI543
48	APP388	SANTOSH MUNDA	37	M	6299543674	DRI542
49	APP389	KHEMLAL BEDIYA	47	M	6202347150	DRI235
50	APP390	GOBIND BEDIYA	27	M	8102335238	DRI548
51	APP391	SANJAY PRASAD	56	M	9031777243	PP323
52	APP392	VIJAY BEDIYA	49	M	8002079595	DRI024
53	APP393	TIKESHWAR MAHTO	53	M	8797477412	PP330
54	APP394	DURGASHANKAR SAHU	28	M	8249698354	PP344
55	APP395	KULDEEP BEDIYA	44	M	8809562572	DRI055
56	APP396	SANTOSH BEDIYA	37	M	8271306125	DRI029
57	APP397	GUDDU KUMAR	27	M	6206687955	PP372
58	APP398	BASUDEV BEDIYA	22	M	7205871172	DRI179
59	APP399	VIKASH NAYEK	29	M	8409071233	PP259
60	APP400	MD. FARUQUE ANSARI	45	M	9199975155	PP352
61	APP401	ISHWAR PRASAD	40	M	6299633570	PP353



Dr. KAUSHAL KUMAR
 AIMS NEW DELHI
 06/11/22
 CRITICAL CARE
 Reg. JMC 311011

MEDICAL CHECKUP LIST

SL NO.	UHID NO.	NAME	AGE	SEX	MOBILE NO.	EMP. CODE
62	APP402	BHAWANI GOPE	30	M	6200360654	PP255
63	APP403	MD. KHALIQUE ULLAH	46	M	8521310831	PP354
64	APP404	SANJAY NAYAK	28	M	7050762808	PP254
65	APP405	NITEESH KUMAR	22	M	9297715504	PP380
66	APP406	BIJAY BEDIYA	45	M	7368961010	DRI171
67	APP407	ARVIND SINGH	35	M	7319858623	DRI506
68	APP408	SHIVAM KUMAR SINGH	23	M	9570893072	PP364
69	APP409	KULESHWAR MAHTO	30	M	8271432086	DRI486
70	APP410	AMERJEET YADAV	38	M	9341346917	PP258
71	APP411	SANTOSH BEDIYA	46	M	9113304056	PP264
72	APP412	MITHUN YADAV	30	M	7295971903	PP265
73	APP413	SITARAM KUSHWAHA	36	M	8873803380	DRI559
74	APP414	DIWAKAR GOPE	28	M	7258051482	PP266
75	APP415	JITENDRA BEDIYA	35	M	7903596862	PP253
76	APP416	MUKESH GOPE	25	M	8409122974	PP363
77	APP417	NARENDRE SHIT	46	M	7004691809	PP263
78	APP418	TOPAN MINZ	34	M	9122620635	PP257
79	APP419	SAHADEV BEDIYA	57	M	8797477412	PP267
80	APP420	KULDEEP GOPE	30	M	7258813818	PP384
81	APP421	DEBU PRASAD MAHTO	40	M	6299697659	PP341
82	APP422	MANISH KUMAR	26	M	8825110954	NEW
83	APP423	MD. SHAZADA AHMED	25	M	8839840952	SMS313
84	APP424	MD. SAMSAAD	30	M	7982447802	SMS312
85	APP425	MD. SAGIR AHMED	25	M	7250366720	NEW
86	APP426	MD. SHAMIM KHAN	30	M	7296081999	SMS413
87	APP427	BACCHU MAHTO	47	M	9472767198	DRI487
88	APP428	BINOD KUMAR	34	M	7763834729	SMS442
89	APP429	NARD MUNI KUSHWAHA	39	M	6203040637	SMS319
90	APP430	WARIS ANSARI	30	M	6204402441	SMS311
91	APP431	ARJUN SINGH	36	M	9564313887	SMS372
92	APP432	SANJEEV KUMAR	30	M	8864044541	DRI054
93	APP433	VIJAY PRASAD	30	M	7903840688	DRI230
94	APP434	JAYKARAN GOPE	32	M	8409634053	SMS212
95	APP435	VIJAY KUMAR	29	M	6260238566	SMS325
96	APP436	KULDEEP BEDIA	35	M	9525135065	SMS215
97	APP437	GYANI GOPE	22	M	8757536762	SMS263
98	APP438	BASUDEV BEDIYA	23	M	7033556172	SMS246
99	APP439	SIDDU BEDIYA	30	M	9060130154	SMS247
100	APP440	SUNIL PRASAD SINGH	56	M	9835142987	SMS194
101	APP441	SAMENDRA PATI	44	M	9064618870	NEW
102	APP442	SURAJ DEV PRASAD	24	M	9973943957	ADMIN344
103	APP443	AJAY KUMAR BEHURIA	52	M	9777448156	ADMIN
104	APP444	ABHIMANYU BARIK	52	M	7377739720	ADMIN365
105	APP445	KARNESHWAR SINGH	28	M	8677831550	ADMIN367
106	APP446	HEMLAL KUMAR MAHTO	24	M	9122626213	ADMIN364
107	APP447	VIKRAM YADAV	23	M	9905684014	ADMIN002
108	APP448	JITENDRA KUMAR	38	M	9234281144	ADMIN008
109	APP449	RAJ SINGH RAJWAR	22	M	7091011655	DRI575
110	APP450	ANIL GOPE	40	M	9204397103	DRI072

111 451 Abhishek Prasad 45yr M
 112 452 Rahul Kumar Singh 33yr M
 113 Abhishek Raj 25yr M
 114 Ritesh K Singh 25yr M

Kaushal Kumar
06/11/22

Total Bill 1750X114
 = 1,99,500/-



Dr. KAUSHAL KUMAR
 MD (AIIMS NEW DELHI)
 DNB EDCIC (ZURIC)
 CRITICAL CARE
 Reg. JMC 3119/10

M/s BIHAR FOUNDRY & CASTINGS LIMITED**Expenditure incurred for environment management**
Period of October 2022 to March 2023

S. No.	Expenditure Heads	Purpose	Particulars	Amount INR
1	Air Pollution Control System	Fugitive dust control	Bag filter for sponge Iron plant	120200
2	Online Environment Monitoring System	Communication cable	Media converter, 8 Port network Switch, Lsn Cables	10118
		PH Meter	Online PH Meter with spare PH sensor	92000
		AMC	CEMS annual service	81200
		Microtek 3KVA Online UPS Battery, Make- Exide	For Pm10 Analyser & Computer System	15400
		MCB 6 Amp Double Pole With Box, Make- Anchor	For Digital water flowmeter with telemetry system	2748
3	Environmental Studies	ISO	IR Classes	95580
4	Horticulture	Plantation	Purchases of tree for plantation	426000
5	Housekeeping	Water Spraying on roads	Nylone Braided Hose Pipe	6500
6	Environmental Monitoring	-	Periodic environmental parameters monitoring from external lab	97125.80
		Drinking Water	RO Membrane PSI-300	30560
Total				977431.8



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शिव शंकर निश्चा

वार्ड पार्षद वार्ड सं० ०९

रामगढ़ नगर परिषद
(झारखण्ड)

झारखण्ड सरकार

आवास : ग्राम + पोस्ट : सर

थाना : रामगढ़

जिला : रामगढ़, (झारखण्ड)

Mob.:- 97981 789

96812 504

एक सं०

दिनांक

सेवा में,

मे० बिहार फाउंड्री एंड कास्टिंग्स लिमिटेड,
नरार, जिला -रामगढ़,
झारखण्ड, 829117

विषय : पर्यावरणीय मंजूरी पत्र प्राप्ति के सम्बन्ध में।

महाशय,

कहना है कि हमें बिहार फाउंड्री एंड कास्टिंग्स लिमिटेड का पर्यावरणीय मंजूरी पत्र मिला था। इसमें दिए गए पर्यावरण सम्बंधित मापदंड में हमें आपत्ति नहीं है।

धन्यवाद।



शिव शंकर निश्चा
वार्ड पार्षद मे०
रामगढ़ नगर परिषद



Ref. No. BFCL/ENV/2022/23

Dated: 29.11.2022

To,
Addl. Principal Chief Conservator of Forests (C),
Ministry of Environment Forest & Climate Change
Integrated Regional Office, Bungalow No. A-2,
Shyamli Colony, Ranchi- 834002

Sub- Half Yearly compliance status report of Environmental Clearance Conditions for the period of April 2022 to September 2022 in respect to M/s Bihar Foundry & Castings Limited.

Ref- Environmental Clearance Letter No. J-11011/310/2009-IA.II (I) dated 28.01.2010

Dear Sir,

We are pleased to enclose herewith six monthly compliance status reports for the conditions stipulated in Environmental Clearance granted to M/s Bihar Foundry & Castings Limited at Plot no. 1364, Ramgarh Industrial Area, Marar Village, District Ramgarh (Jharkhand).

We are also sending herewith the soft copy of the report to your good office via email ro.ranchi-mef@gov.in for your kind perusal.

Thanking You,

Sincerely Yours,
For, Bihar Foundry & Castings Limited

By
(B. K. Gupta)
General Manager (Environment)



Enclosures. As above

Copy to :

1. The Zonal Office Incharge, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th floors, 1582 Rajdanga Main Road Kolkata-700107 (W.B.)
2. The Member Secretary, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor) HEC, Dhurwa, Ranchi-834004
3. The Regional Officer, Jharkhand State Pollution Control Board, P.T.C. Chowk, Matwari Road, Dist- Hazaribagh (Jharkhand)-825301



Bihar Foundry & Castings Limited

Works :- Ramgarh Industrial Area, P.O.- Marar, Dist.- Ramgarh, Jharkhand - 829117.
Registered Office :- Main Road, Ranchi, Jharkhand - 834001.

CIN No :- U27100JH1971PLC000912 & GST No :- 20AABC81852D1Z1

Ranchi - 8825379408, 9523097635 / Ramgarh - 9934012660, 7033698983, Email :- bfclgfa@gmail.com



Ref: BFCL/ENV/2022/16

Dated: 06.09.2022

To,
The Member Secretary
Jharkhand State Pollution Control Board
T.A. Division Building (Ground Floor)
HEC, Dhurwa, Ranchi-834004

Sub: Submission of Environmental Statement of M/s Bihar Foundry & Castings Limited for the Period of 2021-2022 in Form V.

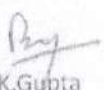
Ref: (i) Environmental Clearance Letter No. - J-11011/310/2009-IA. II (I) Dated: 28.01.2010
(ii) Consent to operate Letter No. JSPCB/HO/RNC/CTO- 7638963/ 2020/704
Dated:25.03.2020 & JSPCB/HO/RNC/CTO- 4426528/2019/2376 Dated: 28.11.2019.

Dear Sir,

With reference to the above we are hereby submitting the environment statement of M/s Bihar Foundry & Castings Limited for the period of 2021-2022 in Form V.

This is for your perusal and necessary record

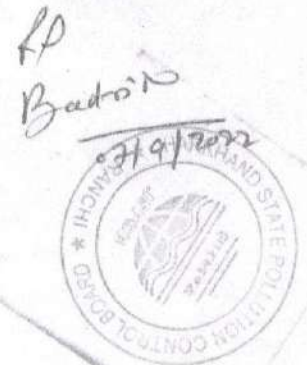
Thanking you,
Sincerely Yours


B.K.Gupta
General Manager (Environment)
Bihar Foundry & Castings Limited
Encl. As Above.



Copy To:

1. The Addl. Principal Chief Conservator of Forests (C), Ministry of Env. Forest and Climate Change, Regional Office (ECZ), Bunglow No. A-2, Shyamali Colony, Ranchi- 834002.
2. The Regional Officer, Jharkhand State Pollution Control Board P.T.C Chowk, matwari Road, Dist- Hazaribagh.



Bihar Foundry & Castings Limited

Works :- Ramgarh Industrial Area, P.O.- Marar, Dist.- Ramgarh, Jharkhand - 829117.
Registered Office :- Main Road, Ranchi, Jharkhand - 834001.
CIN No :- U27100JH1971PLC000912 & GST No :- 20AABC1852D1Z1
Landline :- 0651-2202699 Fax :- 0651- 2202799 Email :- bfcigfa@gmail.com

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