

**BALMUKUND****SPONGE & IRON PVT. LTD.**

18, R. N. Mukherjee Road, (1st Fl.), Kolkata - 700 001  
Ph.: 2248 6304 / 06, 4032 5000, Fax : 2213 7399  
E-mail : balmukund.sponge@gmail.com  
Website : www.balmukund.com  
CIN : U27310WB1999PTC266185  
(An ISO 9001 : 2008 & ISO 14001 : 2004 Company)

19<sup>th</sup> May, 2026

The Zonal Officer,  
Integrated Regional Office of Ministry of Environment, Forest & Climate Change,  
Govt. of India, Eastern Central Zone,  
2<sup>nd</sup> Floor, Jharkhand State Housing Board (HQ)  
Harmu Chowk,  
**Ranchi (Jharkhand)-834 002**

Sub : **EC compliance report for the period from October, 2025 to March, 2026 of conditions as laid down in Environmental Clearance issued by Ministry of Environment and Forest (MoEF), Govt. of India**

Sir,

With reference to the subject above, we are submitting our compliance of the conditions of Environment Clearance granted to us by the Ministry of Environment & Forest, Govt. of India to our Pig Iron Plant (of capacity-39000 TPA vide letter No. J-11011/870/2008-IA II (I) dt.28<sup>th</sup> July, 2010 and Capacity enhanced to 67000 TPA vide JSPCB's 'No Increase In Pollution Load' Verification Letter No. B-2437 dt.20.10.2023 for compliance period from 01<sup>st</sup> October, 2025 to 31<sup>st</sup> March, 2026 as follows :

**A) Specific Conditions :**

Sl. No.	Conditions	Compliance
i.	To control the emission, the emissions from the Mini Blast Furnace, Gas Cleaning Plant comprising dust catchers and ventury scrubbers shall be installed to control the emissions within the prescribed standards.	We have installed Gas Cleaning Plant along-with online dust (PM) monitoring system. Online monitoring system has been provided to stack for online monitoring of PM, CO, NO <sub>x</sub> and SO <sub>2</sub> and to Water Flow Meter with Camera having 24 x 7 days connectivity to CPCB and JSPC Board. Particulate emission is being maintained below 50 mg/Nm <sup>3</sup> . All other parameters namely CO, NO <sub>x</sub> and SO <sub>2</sub> are also being maintained within prescribed limits and data is being transmitted to the servers of CPCB and JSPC Board as per direction. Data are available on server may be verified. Stack emission is also monitored quarterly by a NABL laboratory, results has been shown in their <b>Stack Monitoring Report enclosed</b> herewith for compliance operational period. We have installed dust catchers and wet ventury scrubbers to control the fugitive emissions at work zone within the prescribed standards. Dry fog system is already installed and is being operated efficiently as previously informed and photographs submitted to the MoEF & CC authorities.
ii.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R.No.826(E) dated 16 <sup>th</sup> November, 2009 should be followed.	The National Ambient Air Quality Standards issued by the Ministry vide GSR No.826 (E) dated 16 <sup>th</sup> November, 2009 is being followed. Air quality monitoring within the premises has been improved by installing Online PM <sub>10</sub> monitoring system with 24x7 days connectivity to SPCB and CPCB servers. Monitoring of Ambient Air Quality parameters such as RSPM, SO <sub>2</sub> , CO & NO <sub>x</sub> has also been carried out during the compliance operational period by NABL laboratory. <b>AAQ Monitoring Report</b> for compliance operational period are enclosed.

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Sl. No.	Conditions	Compliance
iii.	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30 <sup>th</sup> May, 2008 and regularly monitored Guidelines/Code of Practice issued by the CPCB shall be followed.	Secondary fugitive emission from all sources is controlled by providing following arrangements to maintain the pollutants within permissible limits as issued by the Ministry vide GSR 414(E) dated 30 <sup>th</sup> May, 2008; monitored regularly as per guidelines/Code of Practice issued by the CPCB : <b>Concrete roads</b> have been constructed all along the premises. Dust on roads and loading/unloading area is regularly cleaned/removed. Roads are kept wet. Fixed type water sprinklers all along the roads have been provided. <b>Raw materials</b> are kept separately under shed. <b>Dust generation</b> at transfer points has been controlled by providing fixed and manual water sprinklers. <b>Dust catcher</b> is already installed and operated regularly. <b>Dry fog dust suppression systems</b> have been installed at storage shed of raw materials and wherever required. <b>Fugitive dust Monitoring Reports</b> conducted manually by NABL laboratory including work zone for compliance operational period are <b>enclosed</b> .
iv.	Vehicular pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product. Efforts shall also be made to reduce impact of the transportation of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions shall be regularly monitored and records kept.	Proper arrangements to control Vehicular pollution, due to transportation, loading/unloading of raw material and finished/end product, have been made by providing following arrangements : <b>Dry fog systems</b> have been installed at unloading of raw material and loading of finished product points to maintain the fugitive emission within the limit at minimal level. <b>Fly ash</b> is not generated during manufacturing process of Pig Iron. <b>Tightly covered vehicles</b> (solving purpose of container) are used for raw material transportation and transportation of finished products. <b>PUC bearing vehicles</b> only are being allowed to enter into premises. <b>Regular water spraying</b> also is done inside the unit as well as at unloading/loading points of raw material and finished goods. Regular manual water spraying is also done on approach road of factory premises. <b>Slag</b> generated from the unit is carried/transported safely in covered vehicle without effecting surroundings.

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Sl. No.	Conditions	Compliance
		<p>Fugitive emission from vehicular movement is controlled by water sprinkling and dust catcher and is monitored by installed online PM<sub>10</sub> monitoring system.</p> <p><b>Monitoring report of Fugitive Emission</b> conducted manually by NABL laboratory for the compliance operational period <b>enclosed</b>.</p>
v.	Permission for drawl of 10 m/hr of water shall be obtained from the Central Ground Water Board/Central Ground Water Authority whichever may be applicable in this case.	Permission from CGWA for drawl of water has been obtained vide NOC No.21-4(166) MER/ CGWA/2013-396 dt.04.03.2014. Renewal of NOC has been granted with validity till 03.03.2028 vide NOC No. NOC/IND/JH/2024/656/R-4/4 dt.24.03.2025. Copy of the same has been submitted along-with our EC Compliance Report for the period ending on 31 <sup>st</sup> March, 2025 for your ready reference.
vi.	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Rain water harvesting as per condition has been constructed. Rain water is properly harvested in reservoirs having sufficient capacity to store rain water. Maximum water is stored in the reservoir and used for dust suppression and greenbelt development during lean season. Roof top rain water harvesting systems are provided and water so collected is recharged properly to maintain the ground water table. Required Balance water requirement is met from ground water source. Digital Water Meter and Piezometers have been installed.
vii.	'Zero' effluent discharge should be strictly followed and no wastewater shall be discharged outside the premises.	'Zero' effluent discharge has strictly been adopted. Water is used only for cooling of hot products and is kept in closed circuit. Domestic waste water is stored in settling tank followed by soak pit. Treated domestic wastewater so obtained is reused in dust suppression and greenbelt development.
viii.	The water consumption shall not exceed as per prescribed standards for the steel plants.	We use ground water less than 120 KLD as per NOC granted by CGWA.
ix.	All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Accretions shall also be properly utilized.	100% Slag 22195.420 MT generated during compliance operational period from blast furnace has been sold to cement manufacturers on demand. They carry it in eco-friendly manner without affecting surroundings.
x.	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. 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.	No fly ash or bottom ash is generated during manufacturing of Pig Iron.



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Sl. No.	Conditions	Compliance
xi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for Steel Plants should be implemented.	Recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants is implemented and submit point-wise compliance in <b>Annexure-2</b> enclosed herewith for compliance operational period.
xii.	All the commitments made to the public during Public Hearing/Consultation meeting held on 10 <sup>th</sup> January, 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to Ministry's Regional Office at Bhubaneswar.	All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 10 <sup>th</sup> January, 2010 has been complied and compliance report submitted. Greenbelt has been developed to control emission. For fugitive emission control, fixed type water sprinklers are installed on concrete roads. Dry fog systems, wherever required have also been installed.
xiii.	At least 5% of the total cost of the project should be earmarked towards corporate social responsibility and item-wise details along-with time-bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.	As per time bound action plan we incurred total Rs.94.38 Lac and completed the CSR liability for this unit. Detail has been submitted earlier vide our previous compliance. Total expenditure liability towards CSR activities is now over. Further, we have incurred Rs.5,28,750.00 towards CSR on investment made during 2024-25.
xiv.	Risk and Disaster Management Plan along-with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB, CPCB within 3 months of issues of environment clearance letter.	On-Site Emergency Plan which consists Risk Disaster and Safety Audit Management Plan approved by the Chief Factory Inspector, Jharkhand is kept as record. Safety measures described in the plan is being obeyed.
xv.	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. Temporary structures have been removed after the completion of the project The unit is operational since Nov., 2010.  All infrastructures and facilities are provided to our existing workers outside but nearby factory premises.

**B) General Conditions :**

Sl. No.	Conditions	Compliance
i.	The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board and the State Government.	CTO granted bearing Ref No. JSPCB/HO/RNC/CTO-22315086/2025/2059 dt.25.07.2025 by JSPCB is valid till 30.06.2029 for all items including Pig Iron being manufactured in our Mega Division and we are complying its conditions.
ii.	No further expansion or modifications in the plant shall be carried out without approval of the Ministry of Environment and Forests.	MBF Plant has been optimized as per 'No Increase in Pollution Load' Certificate dt.13.03.2023 obtained from Environmental Auditor M/s. Vardan Environet, Gurgaon, JSPCB



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Sl. No.	Conditions	Compliance
		Verification Letter No. B-2437 dt.20.10.2023 & CTE Ref. No. JSPCB/HO/RNC/CTE-17713231/2024/177 dt.31.03.2024 for increasing installed production capacity from 39000 TPA to 67000 TPA through equipment and process optimization with or without change in raw material mix. Copy of the said certificate has been submitted vide EC compliance report for the period ending on 31.03.2024. Production with equipment and process optimization has been started after receiving CTO.
iii.	The gaseous emissions from various process units shall conform to the load / mass based standards notified by this Ministry on 19 <sup>th</sup> 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.	The gaseous emissions conform as per standards notified by this Ministry. Online stack dust concentration (PM), CO, NO <sub>x</sub> monitoring system, SO <sub>2</sub> Analyzer & Water Flow Meter with Camera with 24x7 days connectivity to JSPCB and CPCB server are already installed and are kept in operation. Manual AAQ parameters (12) are being monitored by NABL accredited laboratory. <b>Monitoring Reports</b> for the compliance operational period are <b>enclosed</b> .
iv.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to the Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	As per guidance of JSPCB/MoEF, Ambient Air Quality Monitoring at four points and stack emission monitoring by NABL Laboratory is being done regularly. Monitoring report to the Ministry Regional Office including SPCB/CPCB is being submitted. <b>AAQ Monitoring Reports</b> for the compliance operational period are <b>enclosed</b> herewith also with a copy to SPCB/CPCB.
v.	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Our MBF plant is dry processed except water use for cooling of hot pig iron, furnace and pig slag. The cooling water is kept in a closed circuit and reused again and again. No industrial waste water generated and discharged outside premises. We strictly maintain 'Zero Discharge' norm of water pollution control.
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 sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	We have provided noise level control system at all noise generation sources to keep the noise level within the prescribed limit. Noise monitoring report is submitted regularly. <b>NL Monitoring Report</b> for the compliance operational period are <b>enclosed</b> . Results are within prescribed limit.

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vii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is done by arranging medical camp on yearly basis and records maintained as per Factory Act.
viii.	The Company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Surface rain water harvesting is done. A chain of drain including reservoir of adequate capacity has been provided. Rain water so collected is used in greenbelt development and dust suppression. Roof top rain water harvesting for recharging the ground water is already implemented to maintain ground water table.
ix.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in EIA/EMP report. Further, the Company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care, etc.	Please refer Specific Condition (xiii). We comply all environmental protection measures and safeguards as per EIA/EMP report and also providing jobs to local people resulting socio-economic development including community and educational development in surrounding villages, providing drinking water supply and health care, etc.
x.	Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	We have already incurred earmarked amount Rs.151.00 Lakh towards capital cost and fulfilled the conditions. Annual recurring expenditure comprising environmental monitoring, Running cost of Pollution Control Equipment, Greenbelt maintenance, cleaning of approach road as fixed has been incurred as per requirement. Detail as <b>Annexure-1</b> is enclosed.
xi.	A copy of clearance letter shall be sent by the proponent to concerned Panchyat, 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 much earlier. EC copy is available on our website for other bodies and public.
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 at Bhubaneswar, the respective	We are uploading status of compliance of Environmental Clearance conditions along-with all monitoring data issued by NABL laboratory on Company's website and also submitting to your good-self. Test Reports for the compliance operational period are enclosed. The criteria pollutant levels namely; PM <sub>10</sub> , CO, SO <sub>2</sub> and

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Sl. No.	Conditions	Compliance
	Zonal Office of CPCB and the CECB. The criteria pollutant levels namely; PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at the convenient location near the main gate of the Company in the public domain.	NO <sub>x</sub> (ambient levels as well as stack emissions) is monitored online with connectivity to SPCB, CPCB servers and also displayed at our main gate in 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 at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.	We submitted six monthly compliance reports regularly in the past. Status of the compliances for this compliance operational period including all monitored data (in hard copies) are being submitted to the Regional Office of MoEF & CC and the concerned CPCB / SPCB.
xiv.	The environmental statement for each financial year ending 31 <sup>st</sup> 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 Office of the MoEF at Bhubaneswar by e-mail.	The environmental statement for financial year ending 31 <sup>st</sup> March, 2026 submitted to the State Pollution Control Board by Speed Post on 08.05.2026 and also uploaded on the website of the Company. Copy of the said <b>Environmental Statement is enclosed herewith.</b>
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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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 should be forwarded to the Regional Office at Bhubaneswar.	Complied much earlier.
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.	Already complied much earlier. It is a running unit from 14 <sup>th</sup> November, 2010. Financial closure of our unit is 12.11.2010.

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This is again to state here that we have installed all necessary pollution control equipment and online stack dust concentration (PM) monitoring system, CO, NO<sub>x</sub> monitoring system, SO<sub>2</sub> Analyzer, Water Flow Meter with Camera and also online AAQ monitoring within the premises with 24x7 days connectivity to JSPCB and CPCB servers have been provided and operated properly in our plant.

Further instruction/direction, if any, in this regard is highly solicited which will be complied at our end promptly.

Thanking you,  
 Yours faithfully,  
 For Balmukund Sponge & Irons Pvt. Ltd.  
 (MBC Mega Div.)

*Sanku Kumar*  
 Authorized Signatory



Encl: As above

- CC: The Member Secretary, JSPCB, T.A. Division Bldg. (Ground Floor), HEC Complex, Dhurwa, Ranchi-834004.
- CC: The Regional Office, JSPCB, H.I.G.-1, Sardar Patel Nagar, Hirapur, Dhanbad (Jharkhand) - 826001.
- CC: The Zonal Office, CPCB, Southern Conclave, Block 502, 5th and 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107
- All for information.



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Daly Office & Pincode: Doranda HO(834002)	
Booking Office: MBC KOLKATA RMS (700001) CounterNo. 1, 20-04-2026 15:48:36 GSTNo. B (g)RefID: 3326000520052652672	
Charged/Weight(gms): 265 Phy. Wt(gms): 265 Vol. Wt(gms): NA(L:0 B:0 H:0) Amount Paid: 88.64 (Base: Tariff: 75, Tax: 13.64) (CGST: 5.92, SGST: 5.82) Mode of Payment: CASH	
Sender	Receiver
BALMUKUND SPONGE Mobile No. 9433313711 MEGA DIVISION  KOLKATA WEST BENGAL-70000	THE ZONAL OFFICER Mobile No. 1234567890 INTEGRATED REGIONAL  RANCHI JHARKHAND-834002

Track on [www.indiapost.gov.in](http://www.indiapost.gov.in) OR Dial 18002666868 : IVR NO : 6987467266880  
 In case of any complaint, please visit <https://form.indiapost.gov.in/customer>  
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### Annexure-1

Year	Recurring Expenditure for Environment Protection (MBF)	Amount Rs. In Lakh
2025-26 (October, 2025- March, 2026)	Environmental Monitoring	0.928
	Running Cost of Pollution Control Equipments	1.052
	Greenbelt Development	3.90
<b>Total :</b>		<b>5.88</b>


For Balmukund Sponge & Irons Pvt. Ltd.  
 (Mega Div.)



Authorized Signatory




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Daly Office & Pincode: Dhanbad HO(826001)	
Booking Office: MBO KOLKATA RMS (700001) Counter No. 1, 20-04-2026 15:47:06 GSTNo. B: 3326000520052652672	
Charged Weight(gms) 265 Phy. Wt(gms) 265 Vol. Wt(gms): NA(L:0 B:0 H:0) Amount Paid: 88.64 (Base Tariff: 75, Tax: 13.64) (CGST: 8.82, SGST: 8.82) Mode of Payment: CASH	
<b>Sender</b>	<b>Receiver</b>
BALMUKUND SPONGE: Mobile No. 9433313711 MEGA DIVISION  KOLKATA WEST BENGAL-70000	THE REGIONAL OFFICE Mobile No. 1234567890 JSPCB HIG I  DHANBAD JHARKHAND-826001

Track on www.indiapost.gov.in OR Dial 18002666868 : IVR NO : 6987467266814  
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Charged Weight(gms) 265 Phy. Wt(gms) 265 Vol. Wt(gms): NA(L:0 B:0 H:0) Amount Paid: 88.64 (Base Tariff: 75, Tax: 13.64) (CGST: 8.82, SGST: 8.82) Mode of Payment: CASH	
<b>Sender</b>	<b>Receiver</b>
BALMUKUND SPONGE: Mobile No. 9433313711 MEGA DIVISION  KOLKATA WEST BENGAL-70000	THE MEMBER SECRETARY Mobile No. 1234567890 JSPCB TA DIVN  RANCHI JHARKHAND-834004

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(0612) 2322388/488

(06532) 250597

**BALMUKUND****SPONGE & IRON PVT. LTD.**

18, R. N. Mukherjee Road, (1st Fl.), Kolkata - 700 001  
Ph.: 2248 6304 / 06, 4032 5000, Fax : 2213 7399  
E-mail : balmukund.sponge@gmail.com  
Website : www. balmukund. com  
CIN : U 27310WB1999PTC266185  
(An ISO 9001 : 2008 & ISO 14001 : 2004 Company)

Annexure-1

Year	Recurring Expenditure for Environment Protection (MBF)	Amount Rs. In Lakh
2025-26 (October, 2025- March, 2026)	Environmental Monitoring	0.928
	Running Cost of Pollution Control Equipments	1.052
	Greenbelt Development	3.90
	Total :	5.88

For Balmukund Sponge & Irons Pvt. Ltd.  
(Mega Div.)



*Sankar Kumar*  
Authorized Signatory

PATNA OFFICE : 603, SHANTIKUNJ APARTMENT, CHHAJJUBAGH, PATNA-800 001, PH.: (0612) 2322388/488

WORKS : CHATRO, TUNDI ROAD, P.O.: GADISRIRAMPUR, GIRIDIH-815 302, PHONE : (06532) 250597

All Disputes are Subject to Patna (Bihar) Jurisdiction only

**Annexure-2**

Recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants is implemented and submit point-wise compliance as follow:

**CREP conditions & compliance :**

1. Coke Oven Plant : We do not have coke oven plant in the premises.
2. Pig Iron Plant:
  - a) **Control of fugitive emission** : To minimize fugitive emission we have concreted shop floor, RM & Finished goods shed, also installed Dust catcher, bag filter, dry fog systems, fixed type water sprinklers. Besides, manual water sprinkling (by water Tankers) is also done on the floor of the work-shop and approach roads of transportation. Fixed type water sprinklers along the constructed concrete roads have been provided. Roads are kept clean and wet. Raw material like iron pellet, beneficiated iron ore, coke and finished product i.e. pig iron and wastage namely pig slag all are kept under shed separately or in open covered by tarpaulin sheets.
  - b) **Direct Inject of reducing agents** : Reducing agents like dolomite, lime or lime powder are used during process of beneficiation of iron ore by hot process not directly to the Blast Furnace. Technology for manufacturing of Pig Iron has been changed as per our proposal and 'No increase In Pollution Load' Verification Letter No. B-2437 dt.20.10.2023; CTE No. JSPCB/HO/RNC/CTE-17713231/2024/177 Dated 31.03.2024 granted by Jharkhand State Pollution Control Board, H.O., Ranchi to increase the installed production capacity from 39000 TPA to 67000 TPA by using equipment and process optimization and change raw material mix.
  - c) **Solid Waste/Hazardous Waste Management**: 100% generated BF granulated Slag (pig slag) is sold to the cement manufacturers on demand. Need not to study the possibility of slag transportation back into abandoned mines to fill the cavities. We do not generate tar sludge/ETP sludge. No hazardous waste is generated from this end. Hazardous waste in form of burnt mobil oil received from DG Set is used in smoothening of machineries within the premises. We have obtained Hazardous Waste Authorization from JSPCB for disposing off burnt mobil oil in the manner described.
  - d) **Water Conservation / Water Pollution** : Rain water is harvested to meet out the water requirement during lean season. Roof top rain water is recharged to ground to maintain the ground water table. We consume water for cooling of hot product (Pig Iron) during operational period only. Cooling water is kept in closed circuit and reused again and

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CIN : U27310WB1999PTC266185  
(An ISO 9001 : 2008 & ISO 14001 : 2004 Company)

again. Domestic waste water is treated by septic tank followed by soak-pit and reused in dust suppression and greenbelt development. Ground water consumption is less than the prescribed standard for the steel plant. We have provided Roof Top Rain Water and Surface Rain Water Harvesting System. Only balance required water is abstracted from ground. No water pollution exists in our plant. We strictly maintain 'Zero Discharge' norm.

- e) Installation of Continuous Stack Monitoring System: We have installed continuous online stack monitoring system for dust emission (PM) monitoring, CO, NOx, SO<sub>2</sub> analyzer and PM<sub>10</sub> (AAQ) and Water Flow Meter with Camera with 24 x 7 days connectivity to JSPCB and CPCB servers. Continuous data transmitted to JSPCB and CPCB server during compliance operational period.
- f) Housekeeping is being maintained in good condition by placing goods at appropriate places.
- g) To operate existing Pollution Control Equipment efficiently and to keep proper record of run hours, failure time and efficiently with immediate effect : GCP is installed and works properly. Energy meter (installed separately for GCP) reading is taken day to day and record maintained. Stack emission monitoring is being done online by connecting system 24x7 days to CPC and SPC Board's servers and manually by NABL laboratory. Manual monitoring reports for 03<sup>rd</sup> and 04<sup>th</sup> quarters of the year 2025-26 for stack emission monitoring are enclosed with the compliance report. Results are within the prescribed limit. EC Compliance Report alongwith quarterly monitoring test reports is also being submitted to CPCB and JSPCB half-yearly.

**For Balmukund Sponge & Irons Pvt. Ltd.**  
(Mega Division)



*Santosh Kumar*  
**Authorized Signatory**

**Corporate Social Responsibility**  
**Balmukund Sponge & Irons Pvt. Ltd., Giridih**  
(MBF Unit)

**Detail of CSR Expenses incurred during 01.10.2025 to 31.03.2026**

Ledger : (Expenses against additional investment in plant Rs.3.10 Crore)

Date	CSR Work done	Amount incurred-Rs.
09.03.2026	Amount paid to Alphabets, a teaching institution for poor students, vide RTGS No.HDFCR52026030978961276 dt.09.03.2026 as assistance to teach the poor students.	2,00,000.00
11.03.2026	Amount paid to Pocso Victim Assistance Fund/District CSR Fund, Giridih vide Ref.No.BSIPL/01/MARCH/25-26 dt.11.03.2026	2,00,000.00
12.03.2026	Amount paid to Smart Dream Academy for conducting cultural program like drama, dance in Giridih	50,000.00
25.03.2026	Amount paid to M/s. bhaskar Enterprises, Giridih against their Inv.No.2 dt.25.03.2026 towards purchase of Collar T-Shirt-500 pcs. And distributed in Muffasil Thana area in Giridih	78,750.00
	<b>Total :</b>	<b>5,28,750.00</b>

For **Balmukund Sponge & Irons Pvt. Ltd.**  
(Mega Division)



*Sanku Kumar*  
Authorized Signatory



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

PROJECT NAME M/S BALMUKUND SPONGE AND IRON LTD.

PROJECT ADDRESS M/S BALMUKUND SPONGE AND IRON LTD. POST -  
GADDI-SHRIRAMPUR

PIN CODE 815302

STATE JHARKHAND

DISTRICT GIRIDIH

TOWN/BLOCK  
GIRIDIH

COMMUNICATION ADDRESS Village-Manjhiladih, P.O. Gadisirampur

ADDRESS OF CGWB REGIONAL OFFICE 6th & 7th Floor, Lok Nayak Jai Prakash Bhawan, Frazer  
Road, Dak Banglow, Patna-800011, Bihar.

1. NOC NO. NOC/IND/JH/2024/656/R-4/4	2. DATE OF ISSUANCE 24/03/2025
3. APPLICATION NO. IND/JH/2024/656/R-4	4. APPLICATION TYPE Industry
5. PROJECT STATUS Existing Project	6. NOC TYPE Renew
7. VALID FROM 04/03/2025	8. VALID UP TO 03/03/2028
9. WATER QUALITY TYPE Fresh Water	10. AREA TYPE CATEGORY Semi Critical ( GWRE - 2024)

11. Ground Water Abstraction Permitted

GW Abstraction		Dewatering		Total	
m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year
120.00	43800.00	0.00	0.00	120.00	43800.00

12. Details of Ground Water Abstraction /Dewatering Structures

EXISTING 2					PROPOSED 2					TOTAL 4				
DW	DCB	BW	TW	Pu	DW	DCB	BW	TW	Pu	DW	DCB	BW	TW	Pu
0	0	2	0	0	0	0	2	0	0	0	0	4	0	0

\*DW-Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; Pu Pumps;

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

Phase I (within 30 days)

1. Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) is mandatory for all users seeking No Objection Certificate. Intimation regarding their installation shall be updated in Self-Compliance Module (Phase-I) of BhuNeer APP portal within 30 days of grant of No Objection Certificate.

Phase II (after 11 months)

1. Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.

2. Construction of purpose-built observation wells (piezometers) for ground water level monitoring is 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 notified guidelines.

3. Proponents shall monitor quality of ground water from all 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 analyzed in NABL accredited or Govt. approved 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.

**Phase III (Biennial)**

1. Industries shall undertake Biennial water audit through certified water 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.

# All the above-mentioned mandatory compliance conditions are to be filed online in BHUNEER APP (<https://cgwa-bhuneer.mowr.gov.in>) timely.

**General Conditions:**

1. 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 and amendment thereto, if any.
2. 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.
3. 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.
4. 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).
5. The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction as permitted in NOC.
6. Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws.
7. Proponents, who have installed/constructed rain water harvesting and artificial recharge structures shall continue to regularly maintain the water conservation structures.
8. 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.
9. 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), no recharge measures shall be taken up by such firms inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm. The firm need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the notified guidelines
10. Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
11. 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.
12. 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.
13. This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
14. 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.
15. 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 6 months of taking over possession of the premises.
16. In case of new infrastructure projects having ground water abstraction of more than 20 m<sup>3</sup>/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
17. In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting

18. 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.

19. In the self-compliance report, the PP shall submit details of Drilling Agency/ Agencies, which has/ have constructed BW(s)/ TW(s) along with undertaking to the effect that all necessary measures have been taken as per directions of Hon'ble Supreme Court provided in Annexure-VII of guidelines dated 24.09.2020 in respect of abandoned/ failed BW(s)/ TW(s)/Piezometer(s), if any. The PP is advised to engage registered drilling agency/agencies. In the event of any mishap/ unfortunate incident due to negligence in taking measures for prevention of accident due to falling in Bore Well, both PP and concerned drilling agency shall jointly be held responsible and penal action as per extant Government rules shall be taken.

**20. Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent. In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines**

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**BALMUKUND**

SPONGE & IRON PVT. LTD.  
18, R. N. Mukherjee Road, (1st Fl.), Kolkata - 700 001  
Ph.: 2248 6304 / 06, 4032 5000, Fax : 2213 7399  
E-mail : balmukund.sponge@gmail.com  
Website : www. balmukund. com  
CIN : U 27310WB1999PTC266185  
(An ISO 9001 : 2008 & ISO 14001 : 2004 Company)

7<sup>th</sup> May, 2026

The Member Secretary,  
Jharkhand State Pollution Control Board,  
T.A. Division Building,  
H.E.C. Complex, Dhurwa,  
**Ranchi (Jharkhand)-834004**

Sub: **Submission of Environmental Statement for the Financial Year : 2025-26**

Sir,

We are submitting hereto attached Environmental Statement (Form V) for the Financial Year 2025-26 for your needful.

Thanking you,  
Yours faithfully,  
For **Balmukund Sponge & Irons Pvt. Ltd.**

*Santosh Kumar*  
**Manager**



Encl: As above.



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8/488

WORKS : CHATRO, TUNDI ROAD, P.O.: GADISRIRAMPUR, GIRIDIH-815 302, PHONE : (06532) 250597  
All Disputes are Subject to Patna (Bihar) Jurisdiction only

***ENVIRONMENTAL STATEMENT***

***(2025-26)***

**BALMUKUND SPONGE & IRONS PVT. LTD.**

**MEGA DIVISION**

**CHATRO**

**TUNDI ROAD**

**GIRIDIH**

***FORM V***

***(See Rule 14)***

***Environmental Statement For the  
Financial Year Ending 31<sup>st</sup> March, 2026***

Environment Statement for the Financial Year ending the 31<sup>st</sup> March, 2026

PART - A

- 1) Name & Address of the owner/occupier of the industry operation or process : **Pradip Kumar Sahewal**  
**Balmukund Sponge & Irons Pvt. Ltd. (Mega Divn.)**  
Chatro, Tundi Road, Giridih.
- 2) Industry category-Primary, Secondary (STC Code): Primary
- 3) Production Capacity – Unit : TMT Rod - 746 MT per day  
M.S. Billet - 828 MT per day  
Indn.Furn.Slag Grinding- 47000 TPA  
Pig Iron - 189 MT per day  
Iron Ore (Beneficiated)- 94000 TPA
- 4) Year of Establishment : TMT Rod - 22.12.2021  
M.S. Billet - 22.12.2021  
Indn.Furn.Slag Grinding - 01.01.2022  
Pig Iron - 15.04.2025  
Iron Ore (Beneficiated)- 20.01.2016
- 5) Date of the last environmental statement submitted : 26.04.2025

**PART - B**

- 6) Water & Raw Material Consumption:  
Water Consumption cub.m/day :  
Process : 0.000 KL (Washing of Low Grade Iron Ore)  
Cooling : 35.000 KL per day  
Domestic : 12.000 KL per day

Name of Products	Process water consumption per unit of product out-put	
	During the previous Financial Year	During the current Financial Year
1. M.S. Billet	-	-
2. M.S./TMT Rod	-	-
3. Pig Iron	-	-
4. Iron Ore (Beneficiated)	-	-

- 7) Raw Material Consumption

Name of Raw Material	Name of Products	Raw material consumption per unit of product out-put	
		During the previous Financial Year(MT)	During the current Financial Year(MT)
1. Sponge Iron	M.S. Billet	0.869	0.994
2. Scrap of Iron & Steel		0.020	0.032
3. Pig Iron		0.233	0.196
4. Silico Manganese		0.014	0.016
5. Slag Metal		0.000	0.018
1. M.S. Ingot/Billet	TMT Rod	1.024	1.025
1. Iron Ore	Pig Iron	1.449	0.228
2. Hard Coke		0.770	0.866
3. Dolomite/Quartz		0.190	0.091
4. Lime Stone		0.120	0.006
5. Iron Pellet		0.261	0.116
6. Iron Ore Fines		0.080	0.019
7. Beneficiated Iron Ore		0.000	1.459

## Raw Material Consumption

Name of Raw Material	Name of Products	Raw material consumption per unit of product out-put	
		During the previous Financial Year(MT)	During the current Financial Year(MT)
1. Low Grade Iron Ore	Beneficiated Iron Ore	1.034	0.971
2. Coke Fines		0.000	0.087
3. Lime Powder		0.000	0.206
4. Dolo Fines		0.000	0.055
5. Induction Slag	Iron Metal	12.508	10.365

**PART – C**

Pollution discharge to environment/out-put (Parameter as specified in the consent issued)

Pollutants	Quantity of Pollution Generated (Mass/day)	Conc. Of pollutants In discharge (Mass/ Volume)	Percentage of form prescribed with reason
a) Water	: No water discharge out of premises. So no water pollution.		
b) Air	: Test reports submitted (found under limit of prescribed parameters).		

**PART – D**

Hazardous Waste

(As specified Hazardous Waste (Management and Handling Rule, 1989))

Hazardous Waste	Total Quantity (Kg/Ltr)	
	During the previous Financial year(Liter)	During the Current Financial Year(Liter)
From Process	-	-
From pollution control facilities(sold)	-	-
Other (Burnt Mobil Oil)	445	427

**PART – E**

Solid Waste

Solid Waste	Total Quantity (Kg)	
	During the previous Financial year	During the Current Financial Year
a) From Process		
i) From Induction unit – Slag	22202460*	45215200*
ii) From MBF unit – Slag	9042940**	40664290
iii) Beneficiation of Iron Ore(Soil)	0	0
b) From Pollution Control facilities	10870	48880
c) Quantity recycled or re-utilized		
1)Sold -MBF unit(Pig) Slag	Sold-7793400	Sold-36459880
2)From Pollution Control facilities(Pig)	Reused in MBF-10870	Reused in MBF-48880
a) Disposal		
Induction slag	Indn.Slag O/B-9461240 Kg; Crushing-29520860 Kg; C/B-2142840 Kg*. Crushed Waste/Dust O/B-7926810 Kg; Rect.-27160770 Kg; Given 3182.220 Kg Free of cost to brick manufacturers; Used in land filling within premises-31214480 Kg.; C/B-690880 Kg.	* Indn.Slag O/B-2142840 Kg; Crushing-46098990 Kg; C/B-1259050 Kg*. Crushed Waste/Dust O/B-690880 Kg; Rect.-41671730 Kg; Given 16484230 Kg Free of cost to brick manufacturers; Used in land filling within premises-24311580 Kg.; C/B-1566800 Kg.

### PART – F

Please specify the characteristics (in terms of concentration and quantum) Hazardous as well as solid wastes and indicate disposal practice adopted for these categories of wastes.

We have installed 2 Induction Slag grinding units for iron metal segregation. Iron metal segregated is reused in induction furnaces as raw material and solid waste/dust obtained after segregation of iron metal is given to brick manufacturers free of cost. Solid Waste from MBF unit is being sold to cement manufacturers directly or through its suppliers and transported in eco-friendly safe manner in tightly covered trucks. During this whole year our low grade iron ore washing unit is non-operational. Mill skull generated during manufacturing of M.S/TMT Rod is reused in induction furnaces as raw material. Hazardous waste (Burnt Mobil Oil) is stored within the premises safely in appropriate drums and reused in smoothening the machinery within the premises for smooth running of the plant.

### PART – G

Impact of pollution control measures on conservation of natural resources and consequently on the cost of production

Impact of pollution control measures on conservation of natural resources is positive. Cost of production gets some hike causing reduction in profit ratio.

### PART – H

Additional investment proposal/implementation for environment protection including abatement of pollution:

Already implemented :

- 1) Gas Cleaning Plant (GCP) has been provided to MBF unit.
- 2) Fume Extractions Systems have been provided to Induction Furnace unit.
- 3) Online Stake Emission monitoring facility to stakes of appropriate heights with PM, CO, SO<sub>2</sub>, NO<sub>x</sub> Analyzer and dust concentration monitoring with 24x7 days connectivity to JSPCB and CPCB servers have been provided for both the above units.
- 4) Sufficient Bag Filters at required places have been provided.
- 5) Dry Fog Systems at required places have been provided.
- 6) Settling tank for collection of used water in Iron Ore Beneficiation (washing unit) has been provided. (Not in operation).
- 7) Water used in cooling of hot products are kept in closed circuit for reuse again and again.
- 8) Water settling tank followed by soak-pits for collection of domestic waste water has been provided.
- 9) Online dust monitoring system for AAQ PM<sub>10</sub> monitoring with 24x7 days connectivity to JSPCB and CPCB servers has been provided with a display board at factory premises main gate in public domain.
- 10) Water flow meter with camera are installed and is 24x7 days connected online to JSPCB & CPCB server to monitor.
- 11) Monitoring of AAQ within the premises, stack dust concentration, Fugitive Emission, Domestic Waste Water, Noise Level are also done quarterly by NABL laboratory also.
- 12) Rolling Mill unit has been integrated to M.S. Billet unit by installing covered metal conveyor for easy feeding of M.S. Billet to Rolling mill.
- 13) Emission Stack and Re-heating Furnaces of Rolling Mill have been removed after integration of Rolling Mill to M.S. Billet unit.

The additional measure will be adopted after study and on advice of the Jharkhand State Pollution Control Board/MoEF/CPCB.

**PART – I**

Any other particulars in respect of environment protection of environment and abatement of pollution :

Besides operating facilities as above in Part-H, huge Plantation has been done around the factory premises. Concrete road constructed, Fixed water sprinklers have been provided by the side of concrete roads within premises. Manual water sprinklers have also been provided wherever fixed water sprinklers are found difficult to work. Manual water sprinklers are also made available for water sprinkling on approach road to factory premise for dust suppression and to minimize the dust around boundary of factory premise. Arrangements has been made and facilities provided to MBF Unit for no increase in pollution load as per CTE granted for increased installed production capacity.

For **Balmukund Sponge & Irons Pvt. Ltd.**  
(Mega Division)



*Manoj Kumar*

**Manager**

# VASTHI INSTRUMENTS PRIVATE LIMITED

IT'S ALL ABOUT SAFETY

Plot No. 21 & 22, 3<sup>rd</sup> and 4<sup>th</sup> Floor Phase IV, Mangalagiri Road, Auto Nagar, Guntur -  
522002, [info@vasthi.com](mailto:info@vasthi.com) Tele No. 0863-2238 667, Fax No. 0863-2262 667

## CALIBRATION REPORT

Date of Calibration: 15.09.2025

Calibration Due Date: 14.09.2026

<b>CUSTOMER:</b> Balmukund Sponge & Iron Pvt Ltd Chatro ,Tundi road,Post-Gadisrirampur, Giridih-8153001.	PO No : ..... PO Date : ..... Instrument type: Online SPM Analyser Model: VBDM-1500 Range: 0-1000 Mg/Nm3.
---	---

Instrument Serial No.: VI2019080

Test Items	Technical Requirements	Test Results
Appearance and Structure	Accessories Complete; Glass Clean; No Scratch on Surface	Passed
Zero Drift	$\pm 2\% \text{F.S}/24\text{h}$	1.5%
Span Drift	$\pm 2\% \text{F.S}/24\text{h}$	1.7%
Relativity	$R \geq 0.85$	1.0
Half width of the confidence interval	Half width of the confidence interval $\leq 10\%$	5.5%
Half width of the allowed interval	Half width of the allowed interval $\leq 25\%$	15%
Accuracy	When $> 200\text{mg}/\text{m}^3$ , relative error $\leq \pm 15\%$	12%

TESTED BY



(L. Supriya)



CHECKED BY



(Y. Nandini)



# SCIENTIFIC RESEARCH LABORATORY

(Analytical & Environmental Engineering Laboratory)

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 (OHSAS) Certified

90, Lake East (4th Road) Santoshpur, Jadavpur, Kolkata - 700 075

TC-17162 Tele Fax : (033) 2416 2267, Tel.: (033) 2416 1311, E-mail : jyotirmoysrl@gmail.com, srkolenvironmental@gmail.com

Website : www.srkolkata.com



## TEST REPORT

[ ULR - TC17162250000250 ] AMBIENT AIR QUALITY MONITORING [ FORMAT NO. SRL / FRM / 18 ]

Name & Address of the Factory	: M/s. Balmukund Sponge & Iron (P) Ltd. ( Mega Division - MBF ) Manjhiladih , Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand		
Sampling Location	: Near Administrative Office Building		
Sample Identification No.	: S - 261/12/ 2025		
Sampling starting date	: 17.12.2025	Sampling ending date	: 18.12.2025
Sample Receiving/Analysis Starting On	: 18.12.2025	Analysis Completed on	: 31.12.2025

### TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/ BS&IPL / AMB / S - 261/12/ 2025 Dated: 31.12.2025 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.696	IS 5182 (Part-10)	4.0 [1 Hour]
02.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	< 0.2	IS 5182 (Part 11)	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12)	1.0 [Annual]

Note 01 : Carbon Monoxide (CO) for hourly basis.

Note 02 : Details of instruments used for Analysis:GC-MS System [VARIAN 210-MS VARIAN 431-GC, Gas Chromatograph with FID & ECD [Agilent 7320A], CO Analyser Ecotech Model- Serinus 30.

Note 03 : Detection Limit of Benzene ( C<sub>6</sub>H<sub>6</sub> ) is 0.2 µg /m<sup>3</sup> & Benzo (a) Pyrene (BaP) is 0.2 ng /m<sup>3</sup>

For Scientific Research Laboratory

Checked By

For Scientific Research Laboratory

Reviewed and Authorized By

Gautam Chowdhury  
Quality Manager (Authorized Signatory)

-----End of Test Report-----

1 of 1

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(Analytical & Environmental Engineering Laboratory)

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Website : www.srlkolkata.com



## TEST REPORT

[ ULR - TC17162250000251 ] AMBIENT AIR QUALITY MONITORING [ FORMAT NO. SRL / FRM / 18 ]

Name & Address of the Factory	: M/s. Balmukund Sponge & Iron (P) Ltd. ( Mega Division - MBF ) Manjhiladih , Gadisrirampur, P.S.: Giridih (M), District: Giridih, Jharkhand		
Sampling Location	: Near Electric Substation		
Sample Identification No.	: S - 262/12/ 2025		
Sampling starting date	: 17.12.2025	Sampling ending date	: 18.12.2025
Sample Receiving/Analysis Starting On	: 18.12.2025	Analysis Completed on	: 31.12.2025

### TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/ BS&IPL / AMB / S - 262/12/ 2025 Dated: 31.12.2025 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.726	IS 5182 (Part-10)	4.0 [1 Hour]
02.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	< 0.2	IS 5182 (Part 11)	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12)	1.0 [Annual]

Note 01 : Carbon Monoxide (CO) for hourly basis.

Note 02 : Details of instruments used for Analysis: GC-MS System [VARIAN 210-MS VARIAN 431-GC, Gas Chromatograph with FID & ECD  
[Agilent 7820A], CO Analyser Ecotech Model- Serinus 30.

Note 03 : Detection Limit of Benzene ( C<sub>6</sub>H<sub>6</sub> ) is 0.2 µg /m<sup>3</sup> & Benzo (a) Pyrene (BaP) is 0.2 ng /m<sup>3</sup>

For Scientific Research Laboratory

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Quality Manager (Authorized Signatory)

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Website : www.srkkolkata.com



## TEST REPORT

[ ULR - TC17162250000252 ] AMBIENT AIR QUALITY MONITORING [ FORMAT NO. SRL / FRM / 18 ]

Name & Address of the Factory	: M/s. Balmukund Sponge & Iron (P) Ltd. ( Mega Division - MBF ) Manjhiladih , Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand		
Sampling Location	: Near Labour Rest Room		
Sample Identification No.	: S - 263/12/ 2025		
Sampling starting date	: 17.12.2025	Sampling ending date	: 18.12.2025
Sample Receiving/Analysis Starting On	: 18.12.2025	Analysis Completed on	: 31.12.2025

### TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/ BS&IPL / AMB / S - 263/12/ 2025 Dated: 31.12.2025 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.714	IS 5182 (Part-10)	4.0 [1 Hour]
02.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	< 0.2	IS 5182 (Part 11)	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12)	1.0 [Annual]

Note 01 : Carbon Monoxide (CO) for hourly basis.

Note 02 : Details of instruments used for Analysis: GC-MS System [VARIAN 210-MS VARIAN 431-GC, Gas Chromatograph with FID & ECD [Agilent 7820A], CO Analyser Ecotech Model- Serinus 30.

Note 03 : Detection Limit of Benzene ( C<sub>6</sub>H<sub>6</sub> ) is 0.2 µg /m<sup>3</sup> & Benzo (a) Pyrene (BaP) is 0.2 ng /m<sup>3</sup>

For Scientific Research Laboratory

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Gautam Chowdhury

Quality Manager (Authorized Signatory)

---End of Test Report---

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Website : www.srikolkata.com



## TEST REPORT

[ ULR - TC17162250000253 ] AMBIENT AIR QUALITY MONITORING [ FORMAT NO. SRL / FRM / 18 ]

Name & Address of the Factory	: M/s. Balmukund Sponge & Iron (P) Ltd. ( Mega Division - MBF ) Manjhiladih , Gadisrirampur, P.S.: Giridih (M), District: Giridih, Jharkhand		
Sampling Location	: Near Western Boundary		
Sample Identification No.	: S - 264/12/ 2025		
Sampling starting date	: 17.12.2025	Sampling ending date	: 18.12.2025
Sample Receiving/Analysis Starting On	: 18.12.2025	Analysis Completed on	: 31.12.2025

### TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/ BS&IPL / AMB / S - 264/12/ 2025 Dated: 31.12.2025 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.662	IS 5182 (Part-10)	4.0 [1 Hour]
02.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	< 0.2	IS 5182 (Part 11)	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12)	1.0 [Annual]

Note 01 : Carbon Monoxide (CO) for hourly basis.

Note 02 : Details of instruments used for Analysis: GC-MS System [VARIAN 210-MS VARIAN 431-GC, Gas Chromatograph with FID & ECD [Agilent 7820A], CO Analyser Ecotech Model- Serinus 30.

Note 03 : Detection Limit of Benzene ( C<sub>6</sub>H<sub>6</sub> ) is 0.2 µg /m<sup>3</sup> & Benzo (a) Pyrene (BaP) is 0.2 ng /m<sup>3</sup>

For Scientific Research Laboratory

Checked By

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Reviewed and Authorized By

Gautam Chowdhury

Quality Manager (Authorized Signatory)

---End of Test Report---

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# SCIENTIFIC RESEARCH LABORATORY

An ISO 9001:2015 (QMS) & OHSMS 45001:2018 Certified Organization

Recognized by Jharkhand State Pollution Control Board

Analytical & Environmental Engineering Laboratory

Address: C-144, Aman Green City, Pundag, Ranchi- 834 004, Jharkhand

Tele No.: 0651-4057244, Mobile: 94701 30700, E-mail: srlranchilab@gmail.com



TC-11163

## TEST REPORT

ULR No.: TC111632500001139F	Test Report No.	: SRL/R/AAQ/DEC/25/1166
Customer's Name & Address;	Report Issue Date	: 30.12.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Type of Sample	: Ambient Air
	Sampling Location	: Near Adm. Office Building
	Date of Sampling	: 17.12.2025 to 18.12.2025
	Sample Receipt Date	: 21.12.2025
	Analysis Date	: 22.12.2025 to 27.12.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Clear	Ambient Temperature (°C): 16	Relative Humidity (%): 82
Atmospheric Pressure (mmHg): 764	Wind Speed (km/hr.): 6.0	Wind Direction : NW

## TEST RESULTS

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	19.00	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	35.00	80 (24 hrs.)	IS: 5182 (Part- 6)
3.	Particulate Matter, PM <sub>10</sub>	µg/m <sup>3</sup>	79.00	100 (24 hrs.)	IS: 5182 (Part- 23)
4.	Particulate Matter, PM <sub>2.5</sub>	µg/m <sup>3</sup>	47.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	15.00	180 (1 hr.)	CPCB, Vol. I (NAAQMS Monitoring & Analysis Guidelines)
7.	Arsenic (As)	ng/m <sup>3</sup>	<1.00	6 (Annual)	CPCB, Volume I (NAAQMS Monitoring & Analysis Guidelines)
8.	Lead (Pb)	µg/m <sup>3</sup>	<0.02	1 (24 hr.)	IS 5182 (Part-22)
9.	Nickel (Ni)	ng/m <sup>3</sup>	<5.00	20 (Annual)	IS 5182 (Part-26): 2020

\*NAAQS: National Ambient Air Quality Standards, 2009.

Note:

1. The results relate only to the items sampled and tested.
2. Test report shall not be reproduced except in full without written approval of the laboratory.

*Niraj*

Reviewed & issued by;  
Dr. Niraj Kumar Singh  
(Authorized Signatory)

-- End of the Report --



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An ISO 9001:2015 (QMS) & OHSMS 45001:2018 Certified Organization

Recognized by Jharkhand State Pollution Control Board

Analytical & Environmental Engineering Laboratory

Address: C-144, Aman Green City, Pundag, Ranchi- 834 004, Jharkhand

Tele No.: 0651-4057244, Mobile: 94701 30700, E-mail: srlranchilab@gmail.com



TC-11163

## TEST REPORT

ULR No.: TC111632500001140F	Test Report No.	: SRL/R/AAQ/DEC/25/1167
Customer's Name & Address;	Report Issue Date	: 30.12.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Type of Sample	: Ambient Air
	Sampling Location	: Near Electric Substation
	Date of Sampling	: 17.12.2025 to 18.12.2025
	Sample Receipt Date	: 21.12.2025
	Analysis Date	: 22.12.2025 to 27.12.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Clear	Ambient Temperature (°C): 16	Relative Humidity (%): 82
Atmospheric Pressure (mmHg): 764	Wind Speed (km/hr.): 6.0	Wind Direction : NW

## TEST RESULTS

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	21.00	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	36.00	80 (24 hrs.)	IS: 5182 (Part- 6)
3.	Particulate Matter, PM <sub>10</sub>	µg/m <sup>3</sup>	83.00	100 (24 hrs.)	IS: 5182 (Part- 23)
4.	Particulate Matter, PM <sub>2.5</sub>	µg/m <sup>3</sup>	49.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	17.00	180 (1 hr.)	CPCB, Vol. I (NAAQMS Monitoring & Analysis Guidelines)
7.	Arsenic (As)	ng/m <sup>3</sup>	<1.00	6 (Annual)	CPCB, Volume I (NAAQMS Monitoring & Analysis Guidelines)
8.	Lead (Pb)	µg/m <sup>3</sup>	<0.02	1 (24 hr.)	IS 5182 (Part-22)
9.	Nickel (Ni)	ng/m <sup>3</sup>	<5.00	20 (Annual)	IS 5182 (Part-26): 2020

\*NAAQS: National Ambient Air Quality Standards, 2009.

Note:

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*Niraj*

Reviewed & issued by;  
Dr. Niraj Kumar Singh  
(Authorized Signatory)

-- End of the Report --

**TEST REPORT**

ULR No.: TC111632500001141F	Test Report No.	: SRL/R/AAQ/DEC/25/1168
Customer's Name & Address;	Report Issue Date	: 30.12.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Type of Sample	: Ambient Air
	Sampling Location	: Near Labour Rest Room
	Date of Sampling	: 17.12.2025 to 18.12.2025
	Sample Receipt Date	: 21.12.2025
	Analysis Date	: 22.12.2025 to 27.12.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Clear	Ambient Temperature (°C): 16	Relative Humidity (%): 82
Atmospheric Pressure (mmHg): 764	Wind Speed (km/hr.): 6.0	Wind Direction : NW

**TEST RESULTS**

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	17.30	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	32.00	80 (24 hrs.)	IS: 5182 (Part- 6)
3.	Particulate Matter, PM <sub>10</sub>	µg/m <sup>3</sup>	79.00	100 (24 hrs.)	IS: 5182 (Part- 23)
4.	Particulate Matter, PM <sub>2.5</sub>	µg/m <sup>3</sup>	45.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	16.00	180 (1 hr.)	CPCB, Vol. I (NAAQMS Monitoring & Analysis Guidelines)
7.	Arsenic (As)	ng/m <sup>3</sup>	<1.00	6 (Annual)	CPCB, Volume I (NAAQMS Monitoring & Analysis Guidelines)
8.	Lead (Pb)	µg/m <sup>3</sup>	<0.02	1 (24 hr.)	IS 5182 (Part-22)
9.	Nickel (Ni)	ng/m <sup>3</sup>	<5.00	20 (Annual)	IS 5182 (Part-26): 2020

\*NAAQS: National Ambient Air Quality Standards, 2009.

Note:

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Reviewed & issued by;  
Dr. Niraj Kumar Singh  
(Authorized Signatory)

-- End of the Report --

**TEST REPORT**

ULR No.: TC111632500001142F	Test Report No.	: SRL/R/AAQ/DEC/25/11 69
Customer's Name & Address;	Report Issue Date	: 30.12.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Type of Sample	: Ambient Air
	Sampling Location	: Near Western Boundary
	Date of Sampling	: 17.12.2025 to 18.12.2025
	Sample Receipt Date	: 21.12.2025
	Analysis Date	: 22.12.2025 to 27.12.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Clear	Ambient Temperature (°C): 16	Relative Humidity (%): 82
Atmospheric Pressure (mmHg): 764	Wind Speed (km/hr.): 6.0	Wind Direction : NW

**TEST RESULTS**

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	19.50	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	35.00	80 (24 hrs.)	IS: 5182 (Part- 6)
3.	Particulate Matter, PM <sub>10</sub>	µg/m <sup>3</sup>	81.00	100 (24 hrs.)	IS: 5182 (Part- 23)
4.	Particulate Matter, PM <sub>2.5</sub>	µg/m <sup>3</sup>	49.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.00	180 (1 hr.)	CPCB, Vol. I (NAAQMS Monitoring & Analysis Guidelines
7.	Arsenic (As)	ng/m <sup>3</sup>	<1.00	6 (Annual)	CPCB, Volume I (NAAQMS Monitoring & Analysis Guidelines
8.	Lead (Pb)	µg/m <sup>3</sup>	<0.02	1 (24 hr.)	IS 5182 (Part-22)
9.	Nickel (Ni)	ng/m <sup>3</sup>	<5.00	20 (Annual)	IS 5182 (Part-26): 2020

\*NAAQS: National Ambient Air Quality Standards, 2009.

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Tele No.: 0651-4057244, Mobile: 94701 30700, E-mail: srlranchilab@gmail.com



TC-11163

## TEST REPORT

ULR No.: TC111632500001143F	Test Report No.	: SRL/R/N/DEC/25/1170
Customer's Name & Address;	Report Issue Date	: 30.12.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Type of Sample	: Ambient Noise
	Date of Sampling	: 17.12.2025 to 18.12.2025
	Sample Receipt Date	: 21.12.2025
	Analysis Date	: 22.12.2025
	Sample Collected by	: SRL Team
	Weather Condition	: Clear
	Atmospheric Temp.(°C)	: 16
	Test Method	: IS 9989

## AMBIENT NOISE MONITORING DATA

Sl. No.	Monitoring Location	Date of Monitoring	Sound Pressure Level, dB(A)	
			Day Time (06.00-22.00 hr.)	Night Time (22.00-06.00 hr.)
1.	Near Administrative Office Building	17.12.2025 to 18.12.2025	63.5	61.8
2.	Near Raw Material Yard (MBF Division)	17.12.2025 to 18.12.2025	64.1	62.0
3.	Near Pig Iron Manufacturing Unit	17.12.2025 to 18.12.2025	67.2	64.5
4.	Near Labour Rest Room	17.12.2025 to 18.12.2025	63.4	61.8

Norms: National Ambient Air Quality Standards (NAAQS) in respect of Noise as per CPCB, New Delhi,

Industrial Area : Day Time 75 dB(A) Leq and Night Time 70 dB(A) Leq

Commercial Area : Day Time 65 dB(A) Leq and Night Time 55 dB(A) Leq

Residential Area : Day Time 55 dB(A) Leq and Night Time 45 dB(A) Leq

Silence Zone : Day Time 50 dB(A) Leq and Night Time 40 dB(A) Leq

*Niraj*

Reviewed & issued by;  
Dr. Niraj Kumar Singh  
(Authorized Signatory)

-- End of the Report --

**TEST REPORT**

ULR No.: TC111632500001148F	Test Report No.	: SRL/R/ST/DEC/25/1175
Customer's Name & Address;	Report Issue Date	: 30.12.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF)	Type of Sample	: Stack Emission
At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Date of Sampling	: 18.12.2025
	Sample Receipt Date	: 21.12.2025
	Analysis Date	: 22.12.2025 to 27.12.2025

**A. INFORMATION OF PHYSICAL CHARACTERISTICS OF STACK**

Stack number if any	: Stack – 3 (Mini Blast Furnace Stack)
Emission due to	: Process Activities
Material of construction of stack	: M.S.
Shape of stack	: Circular
Whether stack is provided with permanent platform/ ladder	: Yes
Height of the stack from ground level (in meter)	: 30
Height of the sampling point from ground level (in meter)	: 12
Diameter of the stack at sampling point (in meter)	: 1.20
Fuel used & Consumption	: Electricity (Electric Furnace)
Production Capacity	: 67,000 MT/Annum (Pig Iron)
Stack connected to	: GCP & Bag Filter

**B. DETAIL OF STACK EMISSION SAMPLING AND TEST REPORT**

Parameters (Units)	Results	Test Method
Ambient air temperature (°C)	18	IS 11255 (Part 3): 2008 RA 2013
Stack gas temperature, (°C)	119	IS 11255 (Part 3): 2008 RA 2013
Barometric Pressure, (mm of Hg)	763	-
Stack gas velocity, (m/sec)	6.69	IS 11255 (Part 3): 2008 RA 2013
Volumetric flow rate (in Nm <sup>3</sup> /hr),	20,715	IS 11255 (Part 3): 2008 RA 2013
Emission rate (in kg/hr)	0.70	IS 11255 (Part 3): 2008 RA 2013
Conc. of Carbon dioxide, (% v/v by Orsat method)	5.6	IS 13270; 1992 RA 2019
Conc. of Carbon monoxide, (% v/v by Orsat method)	<0.2	IS 13270; 1992 RA 2019
Conc. of Sulphur Dioxides, mg/Nm <sup>3</sup>	28	IS: 11255 (Part 2) 1985 RA 2019
Conc. of Oxides of Nitrogen, mg/Nm <sup>3</sup>	21	IS: 11255 (Part 7) 2005 RA 2017
Conc. of Particulate Matter, mg/Nm <sup>3</sup>	34	IS: 11255 (Part 1) 1985 RA 2019

Remarks: Dust concentration was found 34 mg/Nm<sup>3</sup> against prescribed limit of 50 mg/NM<sup>3</sup>.

Note:

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TC-11163

## TEST REPORT

ULR No.: TC1116325000001149F	Test Report No.	: SRL/R/WW/DEC/25/1176
Customer's Name & Address;	Report Issue Date	: 30.12.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Sample Receipt Date	: 21.12.2025
	Analysis Date	: 22.12.2025 to 27.12.2025
	Sample Collected by	: SRL Team
	Sample Quantity	: 2 Litre
	Sample Condition	: Preserved
	Weather Condition	: Clear
	Lab. Sample No.	: WW – 123

Type of Sample	: Effluent Water	Sampling Method	: APHA 1060 B
Location of Sample	: Office Outlet	Date of Sampling	: 21.12.2025

## TEST RESULTS

Sl. No.	Parameters	Results	Regulatory Standard*			Test Method
			Inland Surface Water Body	Public Sewer	On Land Irrigation	
1.	pH Value	7.4	5.5 – 9.0	5.5 – 9.0	5.5 – 9.0	APHA 24 <sup>th</sup> Edn. 4500H+ B
2.	Total Suspended Solids, mg/l	28	100	600	200	APHA 24 <sup>th</sup> Edn. 2540 D
3.	Total Dissolved Solids, mg/l	260	-	-	-	APHA 24 <sup>th</sup> Edn. 2540 C
4.	Total Solids, mg/l	290	-	-	-	APHA 24 <sup>th</sup> Edn. 2540 B
5.	COD (as O <sub>2</sub> ), mg/l	36	250	-	-	IS: 3025 (Part 58) 2006
6.	BOD (3 days at 27 °C), mg/l	10	30	350	100	IS: 3025 (Part 44) 2012
7.	Oil & Grease, mg/l	<5	10	20	10	APHA 24 <sup>th</sup> Edn. 5220 B
8.	Chloride (as Cl), mg/l, Max.	66	1000	1000	600	APHA 24 <sup>th</sup> Edn. 4500 Cl- B

\*General standards for discharge of environmental pollutants into inland surface water as per CPCB, MoEF&CC, July, 2000.

Note:

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3. Sample shall be discarded after 15 days from the date of issue of the test reports.

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## TEST REPORT

Customer's Name & Address;	Test Report No.	: SRL/R/WZ/DEC/25/1177
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisrirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Report Issue Date	: 30.12.2025
	Sample Receipt Date	: 21.12.2025
	Analysis Date	: 22.12.2025 to 24.12.2025
	Weather Condition	: Clear
	Atmospheric Temp. (°C)	: 16
	Relative Humidity (%)	: 82
	Wind Speed (Km/hour)	: 6.0
	Wind Direction (From)	: NW

Nature and Description of Sample	: Air Quality Monitoring (Work Place)
Type of Sample	: Work Zone Dust
Date of Sampling	: 18.12.2025
Sampling Method	: IS: 5182 (Part- 23)
Sample Collected by	: SRL Team
Any Other Information (if any)	: Nil

## TEST RESULTS

Sl. No.	Location	Unit	Regulatory Standards	Results
1.	Near Loading Point of Finished Product Yard	$\mu\text{g}/\text{m}^3$	3000	1682
2.	Near MBF Plant Work Shop	$\mu\text{g}/\text{m}^3$	3000	1556
3.	Near Solid Waste Dump Area	$\mu\text{g}/\text{m}^3$	3000	1520
4.	Near Unloading Point of Raw Material Yard	$\mu\text{g}/\text{m}^3$	3000	1840

\* Norms for Fugitive Emission: MoEF & CC Notification, 31<sup>st</sup> March, 2012.

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TC-11163

## TEST REPORT

ULR No.: TC111632600000262F	Test Report No.	: SRL/R/AAQ/MAR/26/267
Customer's Name & Address;	Report Issue Date	: 31.03.2026
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Type of Sample	: Ambient Air
	Sampling Location	: Near Adm. Office Building
	Date of Sampling	: 18.03.2026 to 19.03.2026
	Sample Receipt Date	: 22.03.2026
	Analysis Date	: 22.03.2026 to 28.03.2026
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature (°C): 32	Relative Humidity (%): 36
Atmospheric Pressure (mmHg): 758	Wind Speed (km/hr.): 6.0	Wind Direction : S

## TEST RESULTS

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	17.30	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	32.00	80 (24 hrs.)	IS: 5182 (Part- 6)
3.	Particulate Matter, PM <sub>10</sub>	µg/m <sup>3</sup>	78.00	100 (24 hrs.)	IS: 5182 (Part- 23)
4.	Particulate Matter, PM <sub>2.5</sub>	µg/m <sup>3</sup>	46.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.00	180 (1 hr.)	CPCB, Vol. I (NAAQMS Monitoring & Analysis Guidelines)
7.	Arsenic (As)	ng/m <sup>3</sup>	<1.00	6 (Annual)	CPCB, Volume I (NAAQMS Monitoring & Analysis Guidelines)
8.	Lead (Pb)	µg/m <sup>3</sup>	<0.02	1 (24 hr.)	IS 5182 (Part-22)
9.	Nickel (Ni)	ng/m <sup>3</sup>	<5.00	20 (Annual)	IS 5182 (Part-26): 2020

\*NAAQS: National Ambient Air Quality Standards, 2009.

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TC-11163

## TEST REPORT

ULR No.: TC111632600000263F	Test Report No.	: SRL/R/AAQ/MAR/26/268
Customer's Name & Address;	Report Issue Date	: 31.03.2026
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisrirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Type of Sample	: Ambient Air
	Sampling Location	: Near Electric Substation
	Date of Sampling	: 18.03.2026 to 19.03.2026
	Sample Receipt Date	: 22.03.2026
	Analysis Date	: 22.03.2026 to 28.03.2026
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature (°C): 32	Relative Humidity (%): 36
Atmospheric Pressure (mmHg): 758	Wind Speed (km/hr.): 6.0	Wind Direction : S

## TEST RESULTS

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	19.00	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	34.00	80 (24 hrs.)	IS: 5182 (Part- 6)
3.	Particulate Matter, PM <sub>10</sub>	µg/m <sup>3</sup>	81.00	100 (24 hrs.)	IS: 5182 (Part- 23)
4.	Particulate Matter, PM <sub>2.5</sub>	µg/m <sup>3</sup>	48.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	21.00	180 (1 hr.)	CPCB, Vol. I (NAAQMS Monitoring & Analysis Guidelines)
7.	Arsenic (As)	ng/m <sup>3</sup>	<1.00	6 (Annual)	CPCB, Volume I (NAAQMS Monitoring & Analysis Guidelines)
8.	Lead (Pb)	µg/m <sup>3</sup>	<0.02	1 (24 hr.)	IS 5182 (Part-22)
9.	Nickel (Ni)	ng/m <sup>3</sup>	<5.00	20 (Annual)	IS 5182 (Part-26): 2020

\*NAAQS: National Ambient Air Quality Standards, 2009.

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**TEST REPORT**

ULR No.: TC111632600000264F	Test Report No.	: SRL/R/AAQ/MAR/26/269
Customer's Name & Address;	Report Issue Date	: 31.03.2026
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF)	Type of Sample	: Ambient Air
At.: Manjhiladih, Gadisrirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Sampling Location	: Near Labour Rest Room
	Date of Sampling	: 18.03.2026 to 19.03.2026
	Sample Receipt Date	: 22.03.2026
	Analysis Date	: 22.03.2026 to 28.03.2026
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature (°C): 32	Relative Humidity (%): 36
Atmospheric Pressure (mmHg): 758	Wind Speed (km/hr.): 6.0	Wind Direction : S

**TEST RESULTS**

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	16.80	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	31.00	80 (24 hrs.)	IS: 5182 (Part- 6)
3.	Particulate Matter, PM <sub>10</sub>	µg/m <sup>3</sup>	78.00	100 (24 hrs.)	IS: 5182 (Part- 23)
4.	Particulate Matter, PM <sub>2.5</sub>	µg/m <sup>3</sup>	47.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	20.00	180 (1 hr.)	CPCB, Vol. I (NAAQMS Monitoring & Analysis Guidelines)
7.	Arsenic (As)	ng/m <sup>3</sup>	<1.00	6 (Annual)	CPCB, Volume I (NAAQMS Monitoring & Analysis Guidelines)
8.	Lead (Pb)	µg/m <sup>3</sup>	<0.02	1 (24 hr.)	IS 5182 (Part-22)
9.	Nickel (Ni)	ng/m <sup>3</sup>	<5.00	20 (Annual)	IS 5182 (Part-26): 2020

\*NAAQS: National Ambient Air Quality Standards, 2009.

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TC-11163

## TEST REPORT

ULR No.: TC111632600000265F	Test Report No.	: SRL/R/AAQ/MAR/26/270
Customer's Name & Address;	Report Issue Date	: 31.03.2026
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF)	Type of Sample	: Ambient Air
At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Sampling Location	: Near Western Boundary
	Date of Sampling	: 18.03.2026 to 19.03.2026
	Sample Receipt Date	: 22.03.2026
	Analysis Date	: 22.03.2026 to 28.03.2026
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature (°C): 32	Relative Humidity (%): 36
Atmospheric Pressure (mmHg): 758	Wind Speed (km/hr.): 6.0	Wind Direction : S

## TEST RESULTS

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	18.40	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	33.50	80 (24 hrs.)	IS: 5182 (Part- 6)
3.	Particulate Matter, PM <sub>10</sub>	µg/m <sup>3</sup>	84.00	100 (24 hrs.)	IS: 5182 (Part- 23)
4.	Particulate Matter, PM <sub>2.5</sub>	µg/m <sup>3</sup>	50.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	21.00	180 (1 hr.)	CPCB, Vol. I (NAAQMS Monitoring & Analysis Guidelines)
7.	Arsenic (As)	ng/m <sup>3</sup>	<1.00	6 (Annual)	CPCB, Volume I (NAAQMS Monitoring & Analysis Guidelines)
8.	Lead (Pb)	µg/m <sup>3</sup>	<0.02	1 (24 hr.)	IS 5182 (Part-22)
9.	Nickel (Ni)	ng/m <sup>3</sup>	<5.00	20 (Annual)	IS 5182 (Part-26): 2020

\*NAAQS: National Ambient Air Quality Standards, 2009.

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TC-11163

## TEST REPORT

ULR No.: TC111632600000266F	Test Report No.	: SRL/R/N/MAR/26/271
Customer's Name & Address;	Report Issue Date	: 31.03.2026
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Type of Sample	: Ambient Noise
	Date of Sampling	: 18.03.2026 to 19.03.2026
	Sample Receipt Date	: 22.03.2026
	Analysis Date	: 24.03.2026
	Sample Collected by	: SRL Team
	Weather Condition	: Partly Cloudy
	Atmospheric Temp.(°C)	: 32
	Test Method	: IS 9989

## AMBIENT NOISE MONITORING DATA

Sl. No.	Monitoring Location	Date of Monitoring	Sound Pressure Level, dB(A)	
			Day Time (06.00-22.00 hr.)	Night Time (22.00-06.00 hr.)
1.	Near Administrative Office Building	18.03.2026 to 19.03.2026	62.6	61.2
2.	Near Raw Material Yard (MBF Division)	18.03.2026 to 19.03.2026	63.8	62.5
3.	Near Pig Iron Manufacturing Unit	18.03.2026 to 19.03.2026	67.0	64.3
4.	Near Labour Rest Room	18.03.2026 to 19.03.2026	62.9	61.4

Norms: National Ambient Air Quality Standards (NAAQS) in respect of Noise as per CPCB, New Delhi,

Industrial Area : Day Time 75 dB(A) Leq and Night Time 70 dB(A) Leq

Commercial Area : Day Time 65 dB(A) Leq and Night Time 55 dB(A) Leq

Residential Area : Day Time 55 dB(A) Leq and Night Time 45 dB(A) Leq

Silence Zone : Day Time 50 dB(A) Leq and Night Time 40 dB(A) Leq

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**TEST REPORT**

ULR No.: TC111632600000271F	Test Report No.	: SRL/R/ST/MAR/26/276
Customer's Name & Address;	Report Issue Date	: 31.03.2026
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF)	Type of Sample	: Stack Emission
At.: Manjhiladih, Gadisrirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Date of Sampling	: 19.03.2026
	Sample Receipt Date	: 22.03.2026
	Analysis Date	: 22.03.2026 to 26.03.2026

**A. INFORMATION OF PHYSICAL CHARACTERISTICS OF STACK**

Stack number if any	: Stack – 3 (Mini Blast Furnace Stack)
Emission due to	: Process Activities
Material of construction of stack	: M.S.
Shape of stack	: Circular
Whether stack is provided with permanent platform/ ladder	: Yes
Height of the stack from ground level (in meter)	: 30
Height of the sampling point from ground level (in meter)	: 12
Diameter of the stack at sampling point (in meter)	: 1.20
Fuel used & Consumption	: Electricity (Electric Furnace)
Production Capacity	: 67,000 MT/Annum (Pig Iron)
Stack connected to	: GCP & Bag Filter

**B. DETAIL OF STACK EMISSION SAMPLING AND TEST REPORT**

Parameters (Units)	Results	Test Method
Ambient air temperature (°C)	34	IS 11255 (Part 3): 2008 RA 2013
Stack gas temperature, (°C)	123	IS 11255 (Part 3): 2008 RA 2013
Barometric Pressure, (mm of Hg)	758	-
Stack gas velocity, (m/sec)	6.72	IS 11255 (Part 3): 2008 RA 2013
Volumetric flow rate (in Nm <sup>3</sup> /hr),	20,572	IS 11255 (Part 3): 2008 RA 2013
Emission rate (in kg/hr)	0.617	IS 11255 (Part 3): 2008 RA 2013
Conc. of Carbon dioxide, (% v/v by Orsat method)	5.6	IS 13270; 1992 RA 2019
Conc. of Carbon monoxide, (% v/v by Orsat method)	<0.2	IS 13270; 1992 RA 2019
Conc. of Sulphur Dioxides, mg/Nm <sup>3</sup>	56	IS: 11255 (Part 2) 1985 RA 2019
Conc. of Oxides of Nitrogen, mg/Nm <sup>3</sup>	42	IS: 11255 (Part 7) 2005 RA 2017
Conc. of Particulate Matter, mg/Nm <sup>3</sup>	30	IS: 11255 (Part 1) 1985 RA 2019

Remarks: Dust concentration was found 30 mg/Nm<sup>3</sup> against prescribed limit of 50 mg/NM<sup>3</sup>.

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TC-11163

## TEST REPORT

ULR No.: TC111632600000272F	Test Report No.	: SRL/R/WW/MAR/26/277
Customer's Name & Address;	Report Issue Date	: 31.03.2026
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Sample Receipt Date	: 22.03.2026
	Analysis Date	: 22.03.2026 to 26.03.2026
	Sample Collected by	: SRL Team
	Sample Quantity	: 2 Litre
	Sample Condition	: Preserved
	Weather Condition	: Partly Cloudy
	Lab. Sample No.	: WW – 26

Type of Sample	: Effluent Water	Sampling Method	: APHA 1060 B
Location of Sample	: Office Outlet	Date of Sampling	: 22.03.2026

## TEST RESULTS

Sl. No.	Parameters	Results	Regulatory Standard*			Test Method
			Inland Surface Water Body	Public Sewer	On Land Irrigation	
1.	pH Value	7.6	5.5 – 9.0	5.5 – 9.0	5.5 – 9.0	APHA 24 <sup>th</sup> Edn. 4500H+ B
2.	Total Suspended Solids, mg/l	32	100	600	200	APHA 24 <sup>th</sup> Edn. 2540 D
3.	Total Dissolved Solids, mg/l	254	-	-	-	APHA 24 <sup>th</sup> Edn. 2540 C
4.	Total Solids, mg/l	288	-	-	-	APHA 24 <sup>th</sup> Edn. 2540 B
5.	COD (as O <sub>2</sub> ), mg/l	42	250	-	-	IS: 3025 (Part 58) 2006
6.	BOD (3 days at 27 °C), mg/l	12	30	350	100	IS: 3025 (Part 44) 2012
7.	Oil & Grease, mg/l	<5	10	20	10	APHA 24 <sup>th</sup> Edn. 5220 B
8.	Chloride (as Cl), mg/l, Max.	74	1000	1000	600	APHA 24 <sup>th</sup> Edn. 4500 Cl- B

\*General standards for discharge of environmental pollutants into inland surface water as per CPCB, MoEF&CC, July, 2000.

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3. Sample shall be discarded after 15 days from the date of issue of the test reports.

*Niraj*

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Analytical & Environmental Engineering Laboratory

Address: C-144, Aman Green City, Pundag, Ranchi- 834 004, Jharkhand

Tele No.: 0651-4057244, Mobile: 94701 30700, E-mail: srlranchilab@gmail.com

## TEST REPORT

Customer's Name & Address;	Test Report No.	: SRL/R/WZ/MAR/26/278
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Report Issue Date	: 31.03.2026
	Sample Receipt Date	: 22.03.2026
	Analysis Date	: 22.03.2026 to 24.03.2026
	Weather Condition	: Partly Cloudy
	Atmospheric Temp. (°C)	: 32
	Relative Humidity (%)	: 38
	Wind Speed (Km/hour)	: 6.0
	Wind Direction (From)	: S

Nature and Description of Sample	: Air Quality Monitoring (Work Place)
Type of Sample	: Work Zone Dust (Particulate Matter, PM <sub>10</sub> )
Date of Sampling	: 19.03.2026
Sampling Method	: IS: 5182 (Part- 23)
Sample Collected by	: SRL Team
Any Other Information (if any)	: Nil

## TEST RESULTS

Sl. No.	Location	Unit	Regulatory Standards	Results
1.	Near Loading Point of Finished Product Yard	µg/m <sup>3</sup>	3000	1682
2.	Near MBF Plant Work Shop	µg/m <sup>3</sup>	3000	1556
3.	Near Solid Waste Dump Area	µg/m <sup>3</sup>	3000	1520
4.	Near Unloading Point of Raw Material Yard	µg/m <sup>3</sup>	3000	1840

\* Norms for Fugitive Emission: MoEF & CC Notification, 31<sup>st</sup> March, 2012.

Note:

1. The results relate only to the items sampled and tested.
2. Test report shall not be reproduced except in full without written approval of the laboratory.

*Niraj*

Reviewed & issued by;  
Dr. Niraj Kumar Singh  
(Authorized Signatory)

-- End of the Report --



# SCIENTIFIC RESEARCH LABORATORY

(Analytical & Environmental Engineering Laboratory)

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 (OHSAS) Certified

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Website : www.srikolkata.com



## TEST REPORT

[ ULR - TC17162260000611 ] AMBIENT AIR QUALITY MONITORING [ FORMAT NO. SRL / FRM / 18 ]

Name & Address of the Factory	: M/s. Balmukund Sponge & Iron (P) Ltd. ( Mega Division - MBF ) Manjhiladih , Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand		
Sampling Location	: Near Administrative Office Building		
Sample Identification No.	: S - 192/03/ 2026		
Sampling starting date	: 18.03.2026	Sampling ending date	: 19.03.2026
Sample Receiving/Analysis Starting On	: 23.03.2026	Analysis Completed on	: 30.03.2026

### TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/ BS&IPL / AMB / S - 192/03/ 2026 Dated: 30.03.2026 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.690	IS 5182 (Part-10)	4.0 [1 Hour]
02.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	< 0.2	IS 5182 (Part 11)	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12)	1.0 [Annual]

Note 01 : Carbon Monoxide (CO) for hourly basis.

Note 02 : Details of instruments used for Analysis: GC-MS System [VARIAN 210-MS VARIAN 431-GC, Gas Chromatograph with FID & ECD  
[Agilent 7820A], CO Analyser EcoTech Model- Serinus 30.

Note 03 : Detection Limit of Benzene (C<sub>6</sub>H<sub>6</sub>) is 0.2 µg/m<sup>3</sup> & Benzo (a) Pyrene (BaP) is 0.2 ng/m<sup>3</sup>

For Scientific Research Laboratory

Checked By

*D. Saha*

For Scientific Research Laboratory

Reviewed and Authorized By

*Gautam Chowdhury*

Gautam Chowdhury  
Quality Manager (Authorized Signatory)

-----End of Test Report-----  
1 of 1

- The test report shall not be reproduced, except in full, without written approval of the company.
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Website : www.srkkolkata.com



## TEST REPORT

[ ULR - TC17162260000612 ] AMBIENT AIR QUALITY MONITORING [ FORMAT NO. SRL / FRM / 18 ]

Name & Address of the Factory	: M/s. Balmukund Sponge & Iron (P) Ltd. ( Mega Division - MBF ) Manjhiladih , Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand		
Sampling Location	: Near Electric Substation		
Sample Identification No.	: S - 193/03/ 2026		
Sampling starting date	: 18.03.2026	Sampling ending date	: 19.03.2026
Sample Receiving/Analysis Starting On	: 23.03.2026	Analysis Completed on	: 30.03.2026

### TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/BS&IPL / AMB / S - 193/03/ 2026 Dated: 30.03.2026 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.734	IS 5182 (Part-10)	4.0 [1 Hour]
02.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	< 0.2	IS 5182 (Part 11)	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12)	1.0 [Annual]

Note 01 : Carbon Monoxide (CO) for hourly basis.

Note 02 : Details of instruments used for Analysis:GC-MS System [VARIAN 210-MS VARIAN 431-GC, Gas Chromatograph with FID & ECD  
[Agilent 7820A], CO Analyser Ecotech Model- Serinus 30.

Note 03 : Detection Limit of Benzene ( C<sub>6</sub>H<sub>6</sub> ) is 0.2 µg/m<sup>3</sup> & Benzo (a) Pyrene (BaP) is 0.2 ng/m<sup>3</sup>

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Checked By

For Scientific Research Laboratory

Reviewed and Authorized By

Gautam Chowdhury

Quality Manager (Authorized Signatory)

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## TEST REPORT

[ ULR - TC17162260000613 ]

AMBIENT AIR QUALITY MONITORING

[ FORMAT NO. SRL / FRM / 18 ]

Name & Address of the Factory	: M/s. Balmukund Sponge & Iron (P) Ltd. ( Mega Division - MBF ) Manjhiladih , Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand		
Sampling Location	: Near Labour Rest Room		
Sample Identification No.	: S - 194/03/ 2026		
Sampling starting date	: 18.03.2026	Sampling ending date	: 19.03.2026
Sample Receiving/Analysis Starting On	: 23.03.2026	Analysis Completed on	: 30.03.2026

### TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/ BS&IPL / AMB / S - 194/03/ 2026 Dated: 30.03.2026 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.722	IS 5182 (Part-10)	4.0 [1 Hour]
02.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	< 0.2	IS 5182 (Part 11)	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12)	1.0 [Annual]

Note 01 : Carbon Monoxide (CO) for hourly basis.

Note 02 : Details of instruments used for Analysis: GC-MS System [VARIAN 210-MS VARIAN 431-GC, Gas Chromatograph with FID & ECD  
[Agilent 7820A], CO Analyser Ecotech Model- Serinus 30.

Note 03 : Detection Limit of Benzene ( C<sub>6</sub>H<sub>6</sub> ) is 0.2 µg /m<sup>3</sup> & Benzo (a) Pyrene (BaP) is 0.2 ng /m<sup>3</sup>

For Scientific Research Laboratory

Checked By

*Deebh*

For Scientific Research Laboratory

Reviewed and Authorized By

*Gautam Chowdhury*

Gautam Chowdhury

Quality Manager (Authorized Signatory)

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Website : www.srlkolkata.com



## TEST REPORT

[ ULR - TC17162260000614 ]

AMBIENT AIR QUALITY MONITORING

[ FORMAT NO. SRL / FRM / 18 ]

Name & Address of the Factory	: M/s. Balmukund Sponge & Iron (P) Ltd. ( Mega Division - MBF ) Manjhiladih , Gadisirampur, P.S.: Giridih (M), District: Giridih, Jharkhand		
Sampling Location	: Near Western Boundary		
Sample Identification No.	: S - 195/03/ 2026		
Sampling starting date	: 18.03.2026	Sampling ending date	: 19.03.2026
Sample Receiving/Analysis Starting On	: 23.03.2026	Analysis Completed on	: 30.03.2026

### TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/ BS&IPL / AMB / S - 195/03/ 2026 Dated: 30.03.2026 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.674	IS 5182 (Part-10)	4.0 [1 Hour]
02.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	< 0.2	IS 5182 (Part 11)	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12)	1.0 [Annual]

Note 01 : Carbon Monoxide (CO) for hourly basis.

Note 02 : Details of instruments used for Analysis: GC-MS System [VARIAN 210-MS VARIAN 431-GC, Gas Chromatograph with FID & ECD  
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Note 03 : Detection Limit of Benzene ( C<sub>6</sub>H<sub>6</sub> ) is 0.2 µg/m<sup>3</sup> & Benzo (a) Pyrene (BaP) is 0.2 ng/m<sup>3</sup>

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