

# BALMUKUND

**SPONGE & IRON PVT. LTD.**  
( M E G A D V N . )

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)

28th November 2025

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

**Sub : EC compliance report for the period from April, 2025 to September, 2025 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> April, 2025 to 30<sup>th</sup> September, 2025 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 also been facilitated with CO, NO <sub>x</sub> and SO <sub>2</sub> Gas Analyzer and 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 server of CPCB and JSPC Board during compliance operational period 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>AAQ Monitoring Report</b> on 12 parameters <b>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 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> are also being carried out during the compliance operational period by NABL laboratory. <b>AAQ Monitoring Report</b> for compliance operational period are <b>enclosed</b> .

**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**



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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</b> roads 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 generated</b> from the unit is carried/transported safely in covered vehicle without effecting surroundings.

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Sl. No.	Conditions	Compliance
		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. <b>Monitoring report of Fugitive Emission</b> conducted manually by NABL laboratory for the compliance operational period <b>enclosed</b> .
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 develop-ment during lean season. Balance water requirement is met from ground water source. Roof top rain water harvesting systems are provided and water so collected is recharged properly to maintain the ground water table. Required 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 18517.450 MT generated 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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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 <b>iAnnexure-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.
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 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. Offline 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 a 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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Sl. No.	Conditions	Compliance
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 (Fixed) 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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	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, 2025 submitted to the State Pollution Control Board by Speed Post on 26.04.2025 and also uploaded on the website of the Company. Copy of the said Environmental Statement has been submitted with EC Compliance Report for the period ending on 31 <sup>st</sup> March, 2025.
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 also been provided and operated 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 & Iron Pvt. Ltd.

*Sanjib 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 Officer, JSPCB, PTC Chowk, Hazaribagh (Jharkhand)-825301.  
CC: The Zonal Office, CPCB, Southern Conclave, Block 502, 5th and 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700107

Track#	www.indiapost.gov.in	Dist-18002666868
MNC KOLKATA RMS (700001) Counter No. 1 SP-D EW420115604IN IVR:698/420115604 29-11-2025 15:48:53,225(Actual)gms, To: THE REGIONAL OFFICER, JSPCB Hazaribagh II, JHARKHAND - 825301 From: BALMUKUND SPONGE AND IRON MEGA-700001 (Base:63.00)	MNC KOLKATA RMS (700001) Counter No. 1 SP-D EW420115681IN IVR:698/420115681 29-11-2025 15:51:26,222(Actual)gms, To: THE ZONAL OFFICER, CPCB Maduraha SO, WEST BENGAL - 700107 From: BALMUKUND SPONGE AND IRON PVT LTD MEGA-700001 (Base:24.00)	
MNC KOLKATA RMS (700001) Counter No. 1 SP-D EW420115618IN IVR:698/420115618 29-11-2025 15:50:00,219(Actual)gms, To: THE MEMBER SECRETARY, JSPCB DHURWA SO, JHARKHAND - 834004 From: BALMUKUND SPONGE AND IRON PVT LTD MEGA-700001 (Base:63.00)		

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Annexure-1

Year	Recurring Expenditure for Environment Protection (MBF)	Amount Rs. In Lakh
2025-26 (April, 2025- September, 2025)	Environmental Monitoring	0.928
	Running Cost of Pollution Control Equipments	1.378
	Greenbelt Development	3.20
Total :		5.506

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RECEIVER: THE REGIONAL OFFICER  
JSPCB  
HIG-1 HIRAPUR DHANBAD  
JHARKHAND  
- 826001

SENDER: BAL MUKUND SPONGE AND  
IRON PVT LTD  
18 R N M RD KOLKATA WEST  
BENGAL  
INDIA - 700001

R N Mukherjee Road SO (700001) 11-12-2025 11:14:18  
Charged Weight(gms): 219 Phy.Wt(gms): 219 Vol.Wt(gms): NA(L:  
NA B: NA H: NA) Amount Paid: Rs.75.00 (ONLINE) BkgRefId:  
3366031811122585583

In case of any grievance - DIAL-18002666868 : IVR NO : 6987302843886

For Balmukund Sponge &amp; Iron Pvt. Ltd.



*Santosh Kumar*  
(Mega Div.)  
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



**BALMUKUND****SPONGE & IRON PVT. LTD.  
( M E G A D V N . )**

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)

**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.
  - 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. We have obtained Hazardous Waste Authorization from JSPCB for disposing 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 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



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E-mail balmukund.sponge@gmail.com  
Website www.balmukund.com  
CIN : U27310WB1999PTC266185  
(An ISO 9001 2008 & ISO 14001 2004 Company)

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 01<sup>st</sup> and 02<sup>nd</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 & Iron Pvt. Ltd.**  
(Mega Division)



*Santosh Kumar*  
**Authorized Signatory**



**TEST REPORT**

ULR No.: TC111632500000726F	Test Report No.	: SRL/R/AAQ/JULY/25/736
Customer's Name & Address	Report Issue Date	: 02.07.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisrampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Type of Sample	: Ambient Air
	Sampling Location	: Near Adm. Office Building
	Date of Sampling	: 21.06.2025 to 22.06.2025
	Sample Receipt Date	: 25.06.2025
	Analysis Date	: 25.06.2025 to 30.06.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature ( $^{\circ}$ C): 33	Relative Humidity (%): 60
Atmospheric Pressure (mmHg): 749	Wind Speed (km/hr.): 12.0	Wind Direction : ENE

**TEST RESULTS**

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	18.50	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	31.70	80 (24 hrs.)	IS: 5182 (Part- 6)
3.	Particulate Matter, PM <sub>10</sub>	$\mu\text{g}/\text{m}^3$	78.00	100 (24 hrs.)	IS: 5182 (Part- 23)
4.	Particulate Matter, PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	45.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	24.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	32.00	180 (1 hr.)	CPCB, Vol. I (NAAQMS Monitoring & Analysis Guidelines
7.	Arsenic (As)	$\text{ng}/\text{m}^3$	<1.00	6 (Annual)	CPCB, Volume I (NAAQMS Monitoring & Analysis Guidelines
8.	Lead (Pb)	$\mu\text{g}/\text{m}^3$	<0.02	1 (24 hr.)	IS 5182 (Part-22)
9.	Nickel (Ni)	$\text{ng}/\text{m}^3$	<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.

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

-- End of the Report --



**TEST REPORT**

ULR No.: TC111632500000727F	Test Report No.	: SRL/R/AAQ/JULY/25/737
Customer's Name & Address	Report Issue Date	: 02.07.2025
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	: 21.06.2025 to 22.06.2025
	Sample Receipt Date	: 25.06.2025
	Analysis Date	: 25.06.2025 to 30.06.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature (°C): 33	Relative Humidity (%): 60
Atmospheric Pressure (mmHg): 749	Wind Speed (km/hr.): 12.0	Wind Direction : ENE


**TEST RESULTS**

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	20.00	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	33.00	80 (24 hrs.)	IS: 5182 (Part- 6)
3.	Particulate Matter, PM <sub>10</sub>	µg/m <sup>3</sup>	80.00	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>	27.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	34.00	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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(Authorized Signatory)

-- End of the Report --



**TEST REPORT**

ULR No.: TC111632500000728F	Test Report No.	: SRL/R/AAQ/JULY/25/738
Customer's Name & Address	Report Issue Date	: 02.07.2025
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	: 21.06.2025 to 22.06.2025
	Sample Receipt Date	: 25.06.2025
	Analysis Date	: 25.06.2025 to 30.06.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature (°C): 33	Relative Humidity (%): 60
Atmospheric Pressure (mmHg): 749	Wind Speed (km/hr.): 12.0	Wind Direction : ENE

**TEST RESULTS**

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	19.70	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	32.40	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>	26.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	30.00	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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Dr. Niraj Kumar Singh  
(Authorized Signatory)

-- End of the Report --



**TEST REPORT**

ULR No.: TC111632500000729F	Test Report No.	: SRL/R/AAQ/JULY/25/739
Customer's Name & Address	Report Issue Date	: 02.07.2025
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	: 21.06.2025 to 22.06.2025
	Sample Receipt Date	: 25.06.2025
	Analysis Date	: 25.06.2025 to 30.06.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature (°C): 33	Relative Humidity (%): 60
Atmospheric Pressure (mmHg): 749	Wind Speed (km/hr.): 12.0	Wind Direction : ENE

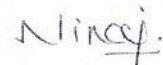
**TEST RESULTS**

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	21.80	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	33.60	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>	26.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	34.00	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.: TC1116325000000730F	Test Report No.	: SRL/R/N/JULY/25/740
Issued to:	Report Issue Date	: 02.07.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF)	Type of Sample	: Ambient Noise
At.: Manjhiladih, Gadisrampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Date of Sampling	: 21.06.2025 to 22.06.2025
	Sample Receipt Date	: 25.06.2025
	Analysis Date	: 26.06.2025
	Sample Collected by	: SRL Team
	Weather Condition	: Partly Cloudy
	Atmospheric Temp.(°C)	: 33
	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	21.06.2025 to 22.06.2025	63.8	62.6
2.	Near Raw Material Yard (MBF Division)	21.06.2025 to 22.06.2025	65.4	63.2
3.	Near Pig Iron Manufacturing Unit	21.06.2025 to 22.06.2025	66.7	65.5
4.	Near Labour Rest Room	21.06.2025 to 22.06.2025	63.4	62.8

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

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

-- End of the Report --



**TEST REPORT**

ULR No.: TC1116325000000735F	Test Report No.	: SRL/R/ST/JULY/25/745
Issued to:	Report Issue Date	: 02.07.2025
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	: 22.06.2025
	Sample Receipt Date	: 25.06.2025
	Analysis Date	: 25.06.2025 to 28.06.2025

**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	: 110 MT/Day (Pig Iron)
Stack connected to	: GCP & Bag Filter

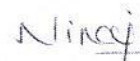
**B. DETAIL OF STACK EMISSION SAMPLING AND TEST REPORT**

Parameters (Units)	Results	Test Method
Ambient air temperature ( $^{\circ}\text{C}$ )	35	IS 11255 (Part 3): 2008 RA 2013
Stack gas temperature, ( $^{\circ}\text{C}$ )	129	IS 11255 (Part 3): 2008 RA 2013
Barometric Pressure, (mm of Hg)	750	-
Stack gas velocity, (m/sec)	6.78	IS 11255 (Part 3): 2008 RA 2013
Volumetric flow rate (in $\text{Nm}^3/\text{hr}$ ),	20471	IS 11255 (Part 3): 2008 RA 2013
Emission rate (in kg/hr)	0.655	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, $\text{mg}/\text{Nm}^3$	23	IS: 11255 (Part 2) 1985 RA 2019
Conc. of Oxides of Nitrogen, $\text{mg}/\text{Nm}^3$	19	IS: 11255 (Part 7) 2005 RA 2017
Conc. of Particulate Matter, $\text{mg}/\text{Nm}^3$	32	IS: 11255 (Part 1) 1985 RA 2019

Remarks: Dust concentration was found  $32 \text{ mg}/\text{Nm}^3$  against prescribed limit of  $50 \text{ mg}/\text{Nm}^3$ .

Note:

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2. Test report shall not be reproduced except in full without written approval of the laboratory.



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

-- End of Report --



**TEST REPORT**

ULR No.: TC1116325000000736F	Test Report No.	: SRL/R/MW/JULY/25/746
Customer's Name & Address:	Report Issue Date	: 02.07.2025
M/s Balmukund Sponge & Iron (P) Ltd.	Sample Receipt Date	: 25.06.2025
(Mega Division- MBF)	Analysis Date	: 25.06.2025 to 28.06.2025
At.: Manjhiladih, Gadisirampur, P.S.: Giridih (M),	Sample Collected by	: SRL Team
District: Giridih, Jharkhand.	Sample Quantity	: 2 Litre
	Sample Condition	: Preserved
	Weather Condition	: Clear
	Lab. Sample No.	: WW – 76

Type of Sample	: Effluent Water	Sampling Method	: APHA 1060 B
Location of Sample	: Office Outlet	Date of Sampling	: 25.06.2025

**TEST RESULTS**

Sl. No.	Parameters	Results	Regulatory Standard*			Test Method
			Inland Surface Water Body	Public Sewer	On Land Irrigation	
1.	Temperature, °C	29	**	**	-	APHA 24 <sup>th</sup> Edn. 2550 B
2.	pH Value	7.2	5.5 – 9.0	5.5 – 9.0	5.5 – 9.0	APHA 24 <sup>th</sup> Edn. 4500H+ B
3.	Total Suspended Solids, mg/l	28	100	600	200	APHA 24 <sup>th</sup> Edn. 2540 D
4.	Total Dissolved Solids, mg/l	240	-	-	-	APHA 24 <sup>th</sup> Edn. 2540 C
5.	Total Solids, mg/l	274	-	-	-	APHA 24 <sup>th</sup> Edn. 2540 B
6.	COD (as O <sub>2</sub> ), mg/l	34	250	-	-	IS: 3025 (Part 58) 2006
7.	BOD (3 days at 27 °C), mg/l	10	30	350	100	IS: 3025 (Part 44) 2012
8.	Oil & Grease, mg/l	<5	10	20	10	APHA 24 <sup>th</sup> Edn. 5220 B
9.	Chloride (as Cl), mg/l, Max.	86	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.

\*\*Shall not exceed 5°C above the receiving water temperature.

**Note:**

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



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

-- End of the Report --



**TEST REPORT**

ULR No.: TC1116325000000737F	Test Report No.	: SRL/R/WZ/JULY/25/747
Customer's Name & Address:	Report Issue Date	: 02.07.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisrirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Sample Receipt Date	: 25.06.2025
	Analysis Date	: 25.06.2025 to 27.06.2025
	Weather Condition	: Partly Cloudy
	Atmospheric Temp. (°C)	: 34
	Relative Humidity (%)	: 76
	Wind Speed (Km/hour)	: 8.0
	Wind Direction (From)	: N

Nature and Description of Sample	: Air Quality Monitoring (Work Place)
Type of Sample	: Work Zone Dust
Date of Sampling	: 22.06.2025
Sampling Method	: IS: 5182 (Part- 23)
Sample Collected by	: SRL Team
Any Other Information (if any)	: Nil

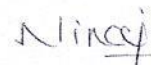
**TEST RESULTS**

Sl. No.	Location	Unit	Regulatory Standards	Results
1.	Near Loading Point of Finished Product Yard	µg/m <sup>3</sup>	3000	1574
2.	Near MBF Plant Work Shop	µg/m <sup>3</sup>	3000	1657
3.	Near Solid Waste Dump Area	µg/m <sup>3</sup>	3000	1628
4.	Near Unloading Point of Raw Material Yard	µg/m <sup>3</sup>	3000	1830

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

Note:

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

-- End of the Report --





# SCIENTIFIC RESEARCH LABORATORY

(Analytical & Environmental Engineering Laboratory)

Laboratory Recognised By Central Pollution Control Board, Govt. Of India  
Laboratory Recognised By West Bengal Pollution Control Board, West Bengal  
An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 (OHSAS) Certified

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

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

Website : www.srlkolkata.com

## TEST REPORT

[ REF - 250000001508 ]

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 Administrative Office Building			
Sample Identification No.	:	S - 196/06/ 2025			
Sampling starting date	:	21.06.2025	Sampling ending date	:	22.06.2025
Sample Receiving/Analysis Starting On	:	25.06.2025	Analysis Completed on	:	12.07.2025

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/BS&IPL/AMB/ S - 196/06/ 2025 Dated: 12.07.2025 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.692	IS 5182(Part-10):1999 ( Non-Dispersive Infrared Method )	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) : 2006	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12) : 2009	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 50.

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  
Reviewed and Authorized By

*Shirsendu Das*

Shirsendu Das

Dy. Technical Manager (Authorized Signatory)

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

1 of 1

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# SCIENTIFIC RESEARCH LABORATORY

(Analytical & Environmental Engineering Laboratory)

Laboratory Recognised By Central Pollution Control Board, Govt. Of India  
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An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 (OHSAS) Certified

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

Tele Fax : (033) 2416 2267, Tel.: (033) 2416 1311, E-mail : jyotirmoysrl@gmail.com, srlkolenvironmental@gmail.com  
Website : www.srlkolkata.com

## TEST REPORT

[ REF - 250000001509 ]

AMBIENT AIR QUALITY MONITORING

[ FORMAT NO. SRL / FRM / 18 ]

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Sampling Location	:	Near Electric Substation			
Sample Identification No.	:	S - 197/06/ 2025			
Sampling starting date	:	21.06.2025	Sampling ending date	:	22.06.2025
Sample Receiving/Analysis Starting On	:	25.06.2025	Analysis Completed on	:	12.07.2025

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/BS&IPL / AMB / S - 197/06/ 2025 Dated: 12.07.2025 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.720	IS 5182(Part-10):1999 ( Non- Dispersive Infrared Method )	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) : 2006	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12) : 2009	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  
Reviewed and Authorized By

*Shirsendu Das*

Shirsendu Das

Dy. Technical Manager (Authorized Signatory)

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1 of 1

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Tele Fax : (033) 2416 2267, Tel.: (033) 2416 1311, E-mail : jyotirmoysrl@gmail.com, srlkolenvironmental@gmail.com  
Website : www.srlkolkata.com

## TEST REPORT

[ REF - 250000001510 ]

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 Labour Rest Room			
Sample Identification No.	:	S - 198/06/ 2025			
Sampling starting date	:	21.06.2025	Sampling ending date	:	22.06.2025
Sample Receiving/Analysis Starting On	:	25.06.2025	Analysis Completed on	:	12.07.2025

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/BS&IPL/AMB/ S - 198/06/ 2025 Dated: 12.07.2025 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.710	IS 5182(Part-10):1999 ( Non-Dispersive Infrared Method )	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) : 2006	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12) : 2009	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  
Reviewed and Authorized By

*Shirsendu Das*

Shirsendu Das

Dy. Technical Manager (Authorized Signatory)

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

1 of 1

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Website : www.srlkolkata.com

## TEST REPORT

[ REF - 250000001511 ]

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 - 199/06/ 2025			
Sampling starting date	:	21.06.2025	Sampling ending date	:	22.06.2025
Sample Receiving/Analysis Starting On	:	25.06.2025	Analysis Completed on	:	12.07.2025

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/ BS&IPL / AMB / S - 199/06/ 2025 Dated: 12.07.2025 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.660	IS 5182(Part-10):1999 ( Non-Dispersive Infrared Method )	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) : 2006	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12) : 2009	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-Scrinus 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  
Reviewed and Authorized By

*Shirsendu Das*

Shirsendu Das

Dy. Technical Manager (Authorized Signatory)

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

1 of 1

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**TEST REPORT**

ULR No.: TC111632500000894F	Test Report No.	: SRL/R/AAQ/SEPT/25/907
Customer's Name & Address	Report Issue Date	: 20.09.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF)	Type of Sample	: Ambient Air
At.: Manjhiladih, Gadisrampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Sampling Location	: Near Adm. Office Building
	Date of Sampling	: 08.09.2025 to 09.09.2025
	Sample Receipt Date	: 12.09.2025
	Analysis Date	: 12.09.2025 to 19.09.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature (°C): 32	Relative Humidity (%): 84
Atmospheric Pressure (mmHg): 754	Wind Speed (km/hr.): 6.0	Wind Direction : N

**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>	29.50	80 (24 hrs.)	IS: 5182 (Part- 6)
3.	Particulate Matter, PM <sub>10</sub>	µg/m <sup>3</sup>	77.00	100 (24 hrs.)	IS: 5182 (Part- 23)
4.	Particulate Matter, PM <sub>2.5</sub>	µg/m <sup>3</sup>	43.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	21.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	26.00	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.: TC111632500000895F	Test Report No.	: SRL/R/AAQ/SEPT/25/908
Customer's Name & Address	Report Issue Date	: 20.09.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF)	Type of Sample	: Ambient Air
At.: Manjhiladih, Gadisrampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Sampling Location	: Near Electric Substation
	Date of Sampling	: 08.09.2025 to 09.09.2025
	Sample Receipt Date	: 12.09.2025
	Analysis Date	: 12.09.2025 to 19.09.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature (°C): 32	Relative Humidity (%): 84
Atmospheric Pressure (mmHg): 754	Wind Speed (km/hr.): 6.0	Wind Direction : N

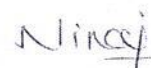
**TEST RESULTS**

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	19.30	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>	83.00	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>	24.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	28.00	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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Reviewed & issued by;  
Dr. Niraj Kumar Singh  
(Authorized Signatory)

-- End of the Report --



**TEST REPORT**

ULR No.: TC111632500000896F	Test Report No.	: SRL/R/AAQ/SEPT/25/909
Customer's Name & Address	Report Issue Date	: 20.09.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF)	Type of Sample	: Ambient Air
At.: Manjhiladih, Gadisrampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Sampling Location	: Near Labour Rest Room
	Date of Sampling	: 08.09.2025 to 09.09.2025
	Sample Receipt Date	: 12.09.2025
	Analysis Date	: 12.09.2025 to 19.09.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature (°C): 32	Relative Humidity (%): 84
Atmospheric Pressure (mmHg): 754	Wind Speed (km/hr.): 6.0	Wind Direction : N

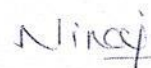
**TEST RESULTS**

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	18.70	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	30.50	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>	47.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	23.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	28.00	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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-- End of the Report --



**TEST REPORT**

ULR No.: TC111632500000897F	Test Report No.	: SRL/R/AAQ/SEPT/25/910
Customer's Name & Address	Report Issue Date	: 20.09.2025
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 Western Boundary
	Date of Sampling	: 08.09.2025 to 09.09.2025
	Sample Receipt Date	: 12.09.2025
	Analysis Date	: 12.09.2025 to 19.09.2025
	Sample Collected by	: SRL Team
	Sample Condition	: Sealed and refrigerated

Weather Condition: Partly Cloudy	Ambient Temperature (°C): 32	Relative Humidity (%): 84
Atmospheric Pressure (mmHg): 754	Wind Speed (km/hr.): 6.0	Wind Direction : N

**TEST RESULTS**

Sl. No.	Parameters	Unit	Results	Standards Value*	Test Method
1.	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	20.40	80 (24 hrs.)	IS: 5182 (Part- 2)
2.	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	33.60	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>	51.00	60 (24 hrs.)	IS: 5182 (Part- 24)
5.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	24.00	400 (24 hrs.)	IS: 5182 (Part- 25)
6.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	30.00	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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-- End of the Report --



**TEST REPORT**

ULR No.: TC111632500000898F	Test Report No.	: SRL/R/N/SEPT/25/911
Issued to:	Report Issue Date	: 20.09.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF)	Type of Sample	: Ambient Noise
At.: Manjhiladih, Gadisrampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Date of Sampling	: 08.09.2025 to 09.09.2025
	Sample Receipt Date	: 12.09.2025
	Analysis Date	: 13.09.2025
	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	08.09.2025 to 09.09.2025	64.6	63.2
2.	Near Raw Material Yard (MBF Division)	08.09.2025 to 09.09.2025	65.8	64.5
3.	Near Pig Iron Manufacturing Unit	08.09.2025 to 09.09.2025	68.5	66.9
4.	Near Labour Rest Room	08.09.2025 to 09.09.2025	63.7	62.4

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

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

-- End of the Report --



**TEST REPORT**

ULR No.: TC111632500000903F	Test Report No.	: SRL/R/ST/SEPT/25/916
Issued to:	Report Issue Date	: 20.09.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF)	Type of Sample	: Stack Emission
At.: Manjhiladih, Gadisrampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Date of Sampling	: 09.09.2025
	Sample Receipt Date	: 12.09.2025
	Analysis Date	: 12.09.2025 to 15.09.2025

**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)	32	IS 11255 (Part 3): 2008 RA 2013
Stack gas temperature, (°C)	124	IS 11255 (Part 3): 2008 RA 2013
Barometric Pressure, (mm of Hg)	752	-
Stack gas velocity, (m/sec)	6.73	IS 11255 (Part 3): 2008 RA 2013
Volumetric flow rate (in Nm <sup>3</sup> /hr),	20,550	IS 11255 (Part 3): 2008 RA 2013
Emission rate (in kg/hr)	0.74	IS 11255 (Part 3): 2008 RA 2013
Conc. of Carbon dioxide, (% v/v by Orsat method)	5.4	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>	24	IS: 11255 (Part 2) 1985 RA 2019
Conc. of Oxides of Nitrogen, mg/Nm <sup>3</sup>	18	IS: 11255 (Part 7) 2005 RA 2017
Conc. of Particulate Matter, mg/Nm <sup>3</sup>	36	IS: 11255 (Part 1) 1985 RA 2019

Remarks: Dust concentration was found 36 mg/Nm<sup>3</sup> against prescribed limit of 50 mg/NM<sup>3</sup>.

**Note:**

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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 Report --



**TEST REPORT**

ULR No.: TC111632500000904F	Test Report No.	: SRL/R/WW/SEPT/25/917
Customer's Name & Address:	Report Issue Date	: 20.09.2025
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF)	Sample Receipt Date	: 12.09.2025
At.: Manjhiladih, Gadisrirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Analysis Date	: 12.09.2025 to 15.09.2025
	Sample Collected by	: SRL Team
	Sample Quantity	: 2 Litre
	Sample Condition	: Preserved
	Weather Condition	: Clear
	Lab. Sample No.	: WW – 92

Type of Sample	: Effluent Water	Sampling Method	: APHA 1060 B
Location of Sample	: Office Outlet	Date of Sampling	: 12.09.2025

**TEST RESULTS**

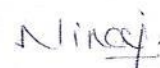
Sl. No.	Parameters	Results	Regulatory Standard*			Test Method
			Inland Surface Water Body	Public Sewer	On Land Irrigation	
1.	Temperature, °C	28	**	**	-	APHA 24 <sup>th</sup> Edn. 2550 B
2.	pH Value	7.6	5.5 – 9.0	5.5 – 9.0	5.5 – 9.0	APHA 24 <sup>th</sup> Edn. 4500H+ B
3.	Total Suspended Solids, mg/l	34	100	600	200	APHA 24 <sup>th</sup> Edn. 2540 D
4.	Total Dissolved Solids, mg/l	256	-	-	-	APHA 24 <sup>th</sup> Edn. 2540 C
5.	Total Solids, mg/l	298	-	-	-	APHA 24 <sup>th</sup> Edn. 2540 B
6.	COD (as O <sub>2</sub> ), mg/l	38	250	-	-	IS: 3025 (Part 58) 2006
7.	BOD (3 days at 27 °C), mg/l	10	30	350	100	IS: 3025 (Part 44) 2012
8.	Oil & Grease, mg/l	<5	10	20	10	APHA 24 <sup>th</sup> Edn. 5220 B
9.	Chloride (as Cl), mg/l, Max.	74	1000	1000	600	APHA 24 <sup>th</sup> Edn. 4500 Cl <sup>-</sup> B

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

\*\*Shall not exceed 5°C above the receiving water temperature.

**Note:**

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2. Test report shall not be reproduced except in full, without written approval of the laboratory.
3. Sample shall be discarded after 15 days from the date of issue of the test reports.

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

-- End of the Report --





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

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

Website : www.srlkolkata.com

## TEST REPORT

[ REF - 250000002412 ]

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 Administrative Office Building		
Sample Identification No.	: S - 214/09/ 2025		
Sampling starting date	: 08.09.2025	Sampling ending date	: 09.09.2025
Sample Receiving/Analysis Starting On	: 16.09.2025	Analysis Completed on	: 22.09.2025

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/ BS&IPL / AMB / S - 214/09/ 2025 Dated: 22.09.2025 ]

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):1999 ( Non-Dispersive Infrared Method )	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) : 2006	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12) : 2009	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  
Reviewed and Authorized By

*Shirsendu Das*  
Shirsendu Das

Dy. Technical Manager (Authorized Signatory)

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

1 of 1

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Website : www.srlkolkata.com

## TEST REPORT

[ REF - 250000002413 ]

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 - 215/09/ 2025		
Sampling starting date	: 08.09.2025	Sampling ending date	: 09.09.2025
Sample Receiving/Analysis Starting On	: 16.09.2025	Analysis Completed on	: 22.09.2025

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/BS&IPL/AMB/ S - 215/09/ 2025 Dated: 22.09.2025 ]

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):1999 ( Non-Dispersive Infrared Method )	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) : 2006	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12) : 2009	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  
Reviewed and Authorized By

*Shirsendu Das*

Shirsendu Das

Dy. Technical Manager (Authorized Signatory)

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Website : www.srlkolkata.com

## TEST REPORT

[ REF - 250000002414 ]

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 Labour Rest Room		
Sample Identification No.	: S - 216/09/ 2025		
Sampling starting date	: 08.09.2025	Sampling ending date	: 09.09.2025
Sample Receiving/Analysis Starting On	: 16.09.2025	Analysis Completed on	: 22.09.2025

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/BS&IPL/AMB/ S - 216/09/ 2025 Dated: 22.09.2025 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.698	IS 5182(Part-10):1999 ( Non-Dispersive Infrared Method )	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) : 2006	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12) : 2009	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  
Reviewed and Authorized By

*Shirsendu Das*

Shirsendu Das

Dy. Technical Manager (Authorized Signatory)

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

1 of 1

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Website : www.srlkolkata.com

## TEST REPORT

[ REF - 250000002415 ]

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 - 217/09/ 2025		
Sampling starting date	: 08.09.2025	Sampling ending date	: 09.09.2025
Sample Receiving/Analysis Starting On	: 16.09.2025	Analysis Completed on	: 22.09.2025

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[ SRL/ BS&IPL / AMB / S - 217/09/ 2025 Dated: 22.09.2025 ]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Carbon Monoxide (CO) [01 Hr.]	mg/m <sup>3</sup>	0.676	IS 5182(Part-10):1999 ( Non- Dispersive Infrared Method )	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) : 2006	5.0 [Annual]
03.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	< 0.2	IS 5182 (Part 12) : 2009	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- Sorinus 3B.

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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*Shirsendu Das*

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**TEST REPORT**

Customer's Name & Address;	Test Report No.	: SRL/R/WZ/SEPT/25/918
M/s Balmukund Sponge & Iron (P) Ltd. (Mega Division- MBF) At.: Manjhiladih, Gadisrirampur, P.S.: Giridih (M), District: Giridih, Jharkhand.	Report Issue Date	: 20.09.2025
	Sample Receipt Date	: 12.09.2025
	Analysis Date	: 12.09.2025 to 15.09.2025.
	Weather Condition	: Partly Cloudy
	Atmospheric Temp. (°C)	: 32
	Relative Humidity (%)	: 76
	Wind Speed (Km/hour)	: 8.0
	Wind Direction (From)	: N

Nature and Description of Sample	: Air Quality Monitoring (Work Place)
Type of Sample	: Work Zone Dust
Date of Sampling	: 09.09.2025
Sampling Method	: IS: 5182 (Part- 23)
Sample Collected by	: SRL Team
Any Other Information (if any)	: Nil

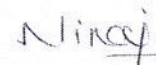
**TEST RESULTS**

Sl. No.	Location	Unit	Regulatory Standards	Results
1.	Near Loading Point of Finished Product Yard	µg/m <sup>3</sup>	3000	1556
2.	Near MBF Plant Work Shop	µg/m <sup>3</sup>	3000	1620
3.	Near Solid Waste Dump Area	µg/m <sup>3</sup>	3000	1542
4.	Near Unloading Point of Raw Material Yard	µg/m <sup>3</sup>	3000	1884

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

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(Authorized Signatory)

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