

BALMUKUND

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

HEAD OFFICE : NEAR VISHWANATH NURSING HOME
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31st May, 2025

The Member Secretary,
State Level Environment Impact Assessment Authority, Jharkhand,
Nursery Complex, Near Dhurwa Bus Stand,
Dhurwa,
Ranchi (Jharkhand)-834 004

Sub : Compliance Report to the EC vide Letter No. EC/SEIAA/2013-14/297/2014/1525
dt.25.08.2015 & No. EC/SEIAA/2021-22/2167/2021/67 dated 15.07.2021 granted
by SEIAA, Jharkhand, Ranchi.

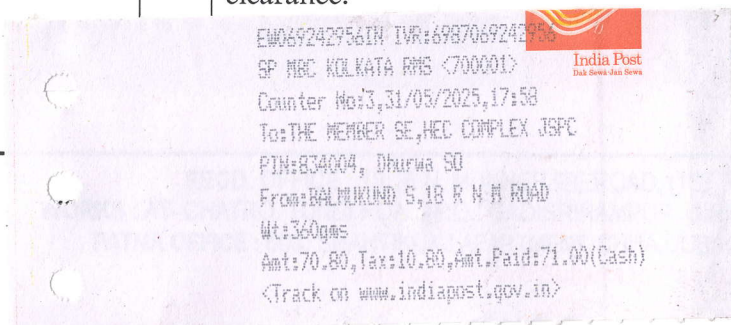
After installation/modernization Installed Capacity of the plant : CCM-274068
TPA; Rolling Mill -246926 TPA and Induction Slag Grinders -47000 TPA segregating
3760 TPA of crushed Iron Metal & Iron Ore Beneficiation -94000 TPA(Throughput)

Sir,

We have been granted Environmental Clearance by SEIAA, Jharkhand, Ranchi vide their Letter No.EC/SEIAA/2021-22/2167/2021/67 dated 15.07.2021 & Letter No.EC/SEIAA/2013-14/297/2014/1525 dt.25.08.2015. After installation/modernization, Installed Capacity of the plant is CCM-274068 TPA; Rolling Mill -246926 TPA and Induction Slag Grinders -47000 TPA segregating 3760 TPA of crushed Iron Metal, and Iron Ore Beneficiation Plant of 94000 TPA (Throughput). We append below our compliance report for 2nd six months of year 2024-25 (period from 01.10.2024 to 31.03.2025) :

I. Specific Conditions :

Sl. No.	Conditions	Compliance
i.	The Environmental Clearance is valid subject to the following condition, that this project has : a. Obtained all legal rights to operate at concerned place. b. Complied with all existing concerned laws of the land, and c. Complied with the decision of SEIAA on the issue of Environmental Clearance till date.	a. The required piece of land has been obtained with all legal rights to operate including NOC No.B-4109 dt.16.10.2015 & CTE No. JSPCB/HO/RNC/CTE-10840052/2021/209 dt.28.09.2021 and C.T.O.No.JSPCB/HO/RNC/CTO-12633413/2022/845 dated 15.06.2022 valid till 30.06.2025 from JSPC Board. Renewal application of the said CTO has been submitted to JSPCB. b. Complied. c. Complied.
ii.	No mining activity shall be undertaken in the forest land or deemed forest without obtaining requisite prior forestry clearance.	Land used for establishment of above referred manufacturing facilities does not include any mining activity. The said land also is not a forest land or deemed forest and need no forestry clearance.



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Sl. No.	Conditions	Compliance
iii.	This Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India. Hon'ble High Court, Hon'ble NGT, MoEF & CC and any other Court of Law, if any, as may be applicable to this project.	We will comply the said outcome accordingly, if applicable to us.
iv.	Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs/is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of elephant/tiger reserve etc. and or located within 10 Km of protected area).	The Environmental Clearance (EC) has been granted on submission of proof that the land used for establishment of above referred manufacturing facilities is not a part of Reserve Forest/Protected Forest/Deemed Forest or wildlife habitat. Clearance from standing committee of NBWL is not required in our case.
v.	The project proponent may apply simultaneously for forest and NBWL clearance in order to complete the formalities without undue delay which will process on their respective merits, no rights will vest in or accrue to them unless all clearance are obtained	The land used for establishment of above referred projects is not a part of Reserve Forest/Protected Forest/Deemed Forest as stated in compliance of condition No. iv above. Therefore, we do not require NBWL clearance.

II. Statutory Compliance

Sl. No.	Conditions	Compliance
i.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	The land used for establishment of above referred manufacturing facilities does not require diversification of forest land to non-forest purpose as the piece of land used is not a forest land.
ii.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	The land used for establishment of above referred manufacturing facilities is not a part of Reserve Forest/Protected Forest/Deemed Forest. We do not require NBWL clearance.
iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest	There is no presence of schedule-1 species in the study area. Site-Specific Conservation Plan & Wildlife Management Plan is not required in our case.

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Sl. No.	Conditions	Compliance
	Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area).	
iv.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	We have obtained required NOC/Consent to Establish (No.B-4109 dt.16.10.2015 & CTE No. JSPCB/HO/RNC/CTE-10840052/2021/209 dt. 28.09.2021)and CTO (No.JSPCB/HO/RNC/ CTO-12633413/2022/845 dated 15.06.2022 valid till 30.06.2025) from J.S.P.C.B., Ranchi under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974. Renewal application of the said CTO has been submitted.
v.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	We have obtained NOC from CGWA No.NOC/IND/JH/2024/656/R-4/4 dt.24.03.2025 valid till 03.03.2028, a copy of the said NOC is enclosed herewith for your needful.
vi.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	We have obtained renewed authorization under the Hazardous and other Waste Management Rules, 2016 from SPCB bearing No JSPCB/HO/RNC/HWM-15424532/2024/29 dated 31.03.2024 valid till 08.09.2028. Copy of HW Authorization Certificate has been submitted alongwith our 2 nd six months EC Compliance Report for the period ending on 31.03.2024.
vii.	It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority, concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi/SEIAA/ CPCB.	We are submitting hard copy of the six (06) monthly compliance report in respect of the prior environmental clearance for stipulated terms and conditions including existing manufacturing units to the regulatory authority, concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board, Ranchi/SEIAA/ CPCB within prescribed time limit.
viii.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	We are submitting factual data only.

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Sl. No.	Conditions	Compliance
ix.	The SEIAA, Jharkhand or any other competent Authority may alter/modify the above conditions or stipulate any further condition in the interest of Environment Protection.	We agree and we will comply applicable modified conditions or further stipulated condition, if any, by the SEIAA, Jharkhand or any other competent authority.

III. Air Quality Monitoring and Preservation:

Sl. No.	Conditions	Compliance
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules, 1986 vide G.S.R. 277 (E) dated 31 st March, 2012 (applicable to IF/EAF) as amended from time to time, S.O.3305 (E) dated 7 th December, 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	We have already installed 24x7 days continuous emission monitoring system at process stacks of both existing and expanded/modernized units of our Mega Division to monitor stack emission and connected to SPCB and CPCB online servers for continuous monitoring of stacks' emissions. Calibration is carried on regularly & submitted to concern authority.
ii.	The project proponent shall monitor fugitive emission in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Quarterly monitoring of fugitive emission in the premises is being done by NABL laboratory. Quarterly fugitive emission monitoring report for compliance operational period is enclosed.
iii.	The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each, covering upwind and downwind directions (case to case basis – Small plants : Manual; Large plants : Continuous).	We have installed Continuous online monitoring system at our Mega Division premises to monitor PM. PM ₁₀ , PM _{2.5} , SO ₂ and NO _x monitoring is also being done manually at four locations within the premises by NABL laboratory on quarterly basis as directed. Ambient Air Quality Monitoring Reports for compliance operational period are enclosed.

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Sl. No.	Conditions	Compliance
iv.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of MoEF & CC, Zonal Office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	We are submitting quarterly results of manual stack monitoring and air quality/fugitive emissions monitoring to Regional Office of MoEF & CC, Zonal Office of CPCB and Regional Office of SPCB along with six- monthly compliance report. Our stacks and AAQ monitoring systems are connected online to JSPCB & CPCB servers for continuous monitoring of stacks emission and AAQ.
v.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.	We have provided dust catcher in our Mega Division plant premises. APC system comprising of bag filters, water sprinklers (fixed and manual), dry fog systems for all the dust generating points including fugitive dust from all vulnerable sources have already been provided.
vi.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	We have provided leakage detection and mechanized bag cleaning facilities for better maintenance of bags filters.
vii.	Sufficient numbers of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	We have provided sufficient numbers of mobile facilities to clean plant roads, shop floors, roofs, regularly.
viii.	Recycle and reuse iron ore fines, coal and coke fines, lime fines, and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	We are reusing Iron ore fines and coke fines, lime fines collected in the pollution control devices in the manufacturing process.
ix.	The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	We are using leak proof trucks/dumpers covered tightly with tarpaulin sheets for carrying raw materials.
x.	The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.	We have provided covered sheds for each raw material separately within premises.
xi.	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	We have provided fume extraction system with acoustic hoods at all induction furnaces.
xii.	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.	Proper ventilation system for adequate air changes have been provided to the plant sheds. No tunnel, oil cellars exists within the plant premises.

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IV. Water Quality Monitoring and Preservation :

Sl. No.	Conditions	Compliance
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules, 1986 vide G.S.R. 277 (E) dated 31 st March, 2012 (applicable to IF/EAF) as amended from time to time, S.O. 3305 (E) dated 7 th December, 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories (case to case basis small plants: Manual; Large plants: Continuous).	There is no industrial effluent discharge from our Mega Division plant. Water is used only for cooling of hot products and domestic purposes. Cooling water is kept in closed circuit and is reused again and again. Domestic waste water is collected in settling tank followed by soak-pit and reused in greenbelt development and dust suppression within the premises. Water used for washing of low grade iron ore is stored in slime dam and reused again and again. During this compliance period low grade iron ore washing unit is not in operation. Also we have not any thermal power plant within premises.
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent area through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Arrangements have been made to monitor ground water quality regularly twice a year (pre and post monsoon) at piezometers/sampling wells in the plant and adjacent area through M/s. Scientific Research Laboratory, Ranchi. Pre/Post-monsoon ground water quality reports for May & October, 2024 are enclosed.
iii.	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF & CC, Zonal Office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	There is no industrial effluent from our units under Mega Division. Copy of current ground water quality reports dt.27.05.2024 & 21.10.2024 (Pre & Post monsoon) are enclosed herewith.
iv.	Adhere to 'Zero Liquid Discharge'.	We are strictly adhering to 'Zero Liquid Discharge'.
v.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	We collect domestic wastewater in a collecting tank of adequate size followed by soak-pit. Waste water so obtained is reused for dust suppression and greenbelt development. Quarterly Monitoring Reports of domestic waste water for compliance operational period are enclosed.

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Sl. No.	Conditions	Compliance
vi.	The project proponent shall provide the ETP for effluents of rolling mills to the standards prescribed in G.S.R. 277 (E) dated 31 st March, 2012 (applicable to IF/EAF) as amended from time to time.	No effluent is generated in the rolling mill. Water is used only for cooling of hot TMT Bar/Rod, is kept in enclosed circuit and recycled/reused again and again. Only make-up water is added to this enclosed circuit when required.
vii.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run-off.	Garland drains and collection pits of adequate size are provided and upgraded to arrest the run-off rain water in the event of heavy rains to prevent the water pollution due to surface run-off. Photograph of collection pond has been submitted earlier with September, 2024 EC Compliance.
viii.	The project proponent shall practice rainwater harvesting to maximum possible extent.	We are practicing rainwater harvesting to maximum possible extent. Rain/Roof Top Rain Water Harvesting with ground water recharge pit(s) have also been provided. Photographs of the RTRWH structures have been submitted with September, 2024 EC Compliance.
ix.	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use by recycling treated water.	To minimize water consumption, we have integrated our CCM and Rolling Mill. Hot MS Billet is being directly injected to Rolling Mill. Arrangement for reuse of cooling water of hot TMT Bars has been made by keeping cooling water in closed circuit. Domestic waste water, treating it by collecting/settling tank followed by soak-pit is reused in greenbelt development & dust suppression.

V. Noise Monitoring and Prevention:

Sl. No.	Conditions	Compliance
i.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as part of six-monthly compliance report.	Quarterly NLM reports both for existing and expanded/modernized plant for compliance operational period are being submitted as part of this six-monthly compliance reports to the authorities concerned.
ii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz.75 dB (A) during day time and 70 dB(A) during night time.	We have provided noise resisting arrangements in both the existing and expanded/modernized plant to control Ambient Noise Levels to conform the standards prescribed under E(P)A Rules, 1986.

VI. Energy Conservation measures :

Sl. No.	Conditions	Compliance
i.	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.	There is no re-heating furnace in our Rolling Mill. It is completely integrated with our M.S. Billet plant.

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Sl. No.	Conditions	Compliance
ii.	Practice hot charging of slabs and billets/blooms as far as possible.	Only continuous hot charging of M.S. Billets with surplus heat to Rolling Mills as described in manufacturing process of TMT Bar/Rod has been adopted.
iii.	Ensure installation of regenerative type burners on all reheating furnaces.	No reheating furnace has been installed in rolling mill.
iv.	Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	We are using LED lights at all common areas, street lights, parking area for minimal electric power consumption and to finish the provision of solar power generation and use.
v.	The project proponents shall provide LED lights in their offices and residential areas.	We have provided LED lights in our offices, canteens. There is no residential accommodation in our factory premises.

VII. Waste Management :

Sl. No.	Conditions	Compliance
i.	Used refractories shall be recycled as far as possible.	Refractories used in induction furnaces gets completely burnt. However, unburnt refractories, if any, is recycled as far as possible.
ii.	Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried and briquetted and reused in melting furnaces.	Oily scum and metallic sludge recovered from rolling mills cooling bed is dried, briquetted and reused in melting furnaces.
iii.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	There is no fly ash generation in our units.
iv.	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other Waste (Management & Transboundary Movement Rules, 2016.	Only burnt mobil oil is generated in course of running of Diesel Generator which is kept safely in metal drums and reused in mobilization of machineries for their smooth operation within the plant premises. No out of premises or trans-boundary disposal of the burnt mobil oil is done.
v.	Kitchen waste shall be composted or converted to biogas for further use (<i>to be decided on case to case basis depending on type and size of plant.</i>)	Domestic waste of canteen is composted and reused in development of greenbelt.

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VIII. Green Belt :

Sl. No.	Conditions	Compliance
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter-alia cover the entire periphery of the plant.	We have developed greenbelt in an area of 33% of the plant area with native tree. We are enhancing density and biodiversity of the greenbelt.
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	We do not burn fossil fuels for electricity or heat. No GHG is generated. Transport vehicles with PUC only are permitted to enter into the premises.

IX. Public Hearing and Human Health Issues :

Sl. No.	Conditions	Compliance
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	We have implemented emergency plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan as per Factory Act.
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Personal Protection Equipment (PPEs) like heat resisting dress, goggles, gloves, nose masks as per the norms of Factory Act have been provided to the workmen working in high temperature work zone. During operation distance of at least 4 mtr from the molten metal and delivery spout is always maintained by the workers working near induction furnaces. Exhaust fans/ventilation in the working shed are installed to minimize and maintain heat stress in the working zone.
iii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Construction labours had been provided temporary housing with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile ST, safe drinking water, medical health care, creche etc. within the premises which were removed after the completion of installation work of the project. Only regular permanent workers are provided quarters/ house with all required facilities out of factory premises.

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E-mail : balmukund.sponge@gmail.com
Website : www.balmukund.com
C I N : U 2 7 3 1 0 W B 1 9 9 9 P T C 2 6 6 1 8 5

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X. Corporate Environment Responsibility :

Sl. No.	Conditions	Compliance
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1 st May, 2018 as applicable, regarding Corporate Environment Responsibility.	We are complying with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1 st May, 2018 as applicable. We attach hereto detail of expenses incurred towards CSR and CER activities keeping in view of the issues of the Ministry's said OM.
ii.	The Company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and / or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.	We are following Environment Management policy as stipulated in EIA submitted for grant of Environmental Clearances.
iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive,, who will directly report to the head of the organization.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel under the control of senior Executive, who directly report to the head of the organization as stated in the EMPs of final EIAs submitted for grant of Environmental Clearances. is already constituted.
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year-wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year-wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.	We are implementing EMP and environmental conditions. The year-wise funds earmarked Rs.17.00 Lac towards recurring expenditure for environmental protection measures, has been kept in separate account and is not being diverted for any other purpose. Annexure-1 showing expenses incurred during 02 nd six months of FY:2024-25 is enclosed herewith.

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CIN : U27310WB1999PTC266185

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Sl. No.	Conditions	Compliance
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	We have conducted Self environmental audit for year 2024-25, copy of the same is being submitted with this EC compliance report of 02 nd six month's of FY: 2024-25.
vi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plant shall be implemented.	We implemented the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for both the existing and newly established units (Annexure-2 enclosed).
vii.	Occupational health surveillance of the worker shall be done on a regular basis and records maintained as per Factories Act.	Occupational health surveillance of the workers on a regular basis as per Factory Act is being continued for workers working in Mega Div. and records kept in the factory office.

X. Miscellaneous :

Sl. No.	Conditions	Compliance
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	We have already advertised the grant of Environmental Clearances in two local newspapers Hindustan Times dated 29.07.2021(English) and Dainik Bhasker dated 30.07.2021(Hindi) to make the public acknowledged in this regard. Copy of newspaper cuttings submitted earlier with 1 st compliance report. The EC granted has been uploaded on the Company's website. The existing unit has already complied this condition earlier.
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	We have submitted copy of granted Environmental Clearance to DC (Admn.), Giridih; Zila Parishad, Giridih; G.M., DIC, Giridih; Mukhiya, Gadisrirampur Panchyat; Giridih. Copies of receiving submitted earlier with 1 st compliance report. The existing unit has already complied this condition earlier.
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	We are uploading compliance to the conditions of Environmental Clearances regularly on our website.

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Sl. No.	Conditions	Compliance
iv.	The project proponent shall monitor the criteria pollutants level namely PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	We monitor the criteria pollutants level namely PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) and display the same at main gate of the premise for disclosure to the public and put it on the web site of the Company with six monthly compliance report regularly.
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.	We are submitting our six-monthly compliance report regularly. It is also put on website of the Company.
vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	The environmental statement for financial year ending 31 st March, 2025 has been submitted to the State Pollution Control Board. It has also been uploaded on the website of the Company. Copy of the same is also being submitted along-with this EC Compliance Report for the 02 nd half six month of FY 2024-25.
vii.	The project proponent 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, commencing the land development work and start of production operation by the project.	Already complied
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	We strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board and the State Government. We have obtained CTO valid till 30.06.2025. Copy of the same has been submitted and complying its conditions.
ix.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	We abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during our presentation to the Expert Appraisal Committee. Compliance to the commitments made during Public Hearing has been submitted marked as Annexure-3 along-with EC Compliance Report for 1 st six month ending on 30.09.2024.

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

All Disputes are Subject to Patna (Bihar) jurisdiction only

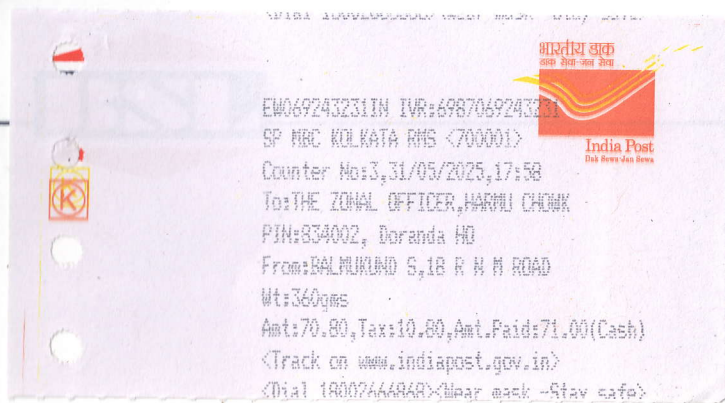
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(M E G A D V N .)**

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Sl. No.	Conditions	Compliance
x.	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF & CC).	We will not expand or modify our plant further without prior approval of the competent authority.
xi.	Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	We have submitted factual data only.
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	We have complied all the conditions of existing and new environmental clearances to the best of satisfaction of concerned authorities.
xiii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	We will implement properly the additional conditions, if any, found necessary and stipulated in future, in a time bound manner.
xiv.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	We will extend full cooperation to the officer(s) of the Regional Office by furnishing requisite data/information/monitoring reports.
xv.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	We are complying provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
xvi.	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	We agree.

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BALMUKUND

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XI. Other Conditions :

Sl. No.	Conditions	Compliance
i.	The Authorities reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of the Authority or for that matter for any other Administrative reason.	We have implemented the directions given vide above conditions properly and agree to implement condition if is added/modified by the concerned authorities, if any, applicable to us. We are complying all the conditions of granted Environmental Clearances.
ii.	In view of MoEF & CC O.M.No.22-27/2015-IA-III dated 12.04.2016 the Environmental Clearance accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.	We will not increase production rate and also will not make modifications in process further during validity of the Environmental Clearances without prior approval of the competent authority.
iii.	In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions, if required.	We did not make any deviation or alteration in the project from those submitted to SEIAA, Jharkhand for clearance. We will submit afresh proposal for deviation or alteration, if any.

We have complied all the applicable conditions of the Environmental Clearances. Further, we assure that the direction in this regard, if any, is received, we will promptly take action to comply.

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

Santosh Kumar
(Mega Division)
Authorized Signatory

Encl: As above.

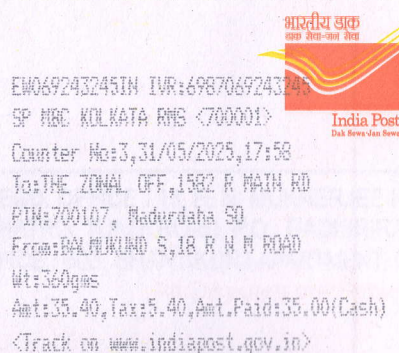
CC: The Zonal Officer, Integrated Regional Office of Ministry of Environment, Forest & Climate Change, Govt. of India, Eastern Central Zone, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi (Jharkhand)-834002

CC: The Zonal Office, CPCB, Southern Conclave, Block 502, 5th and 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700107

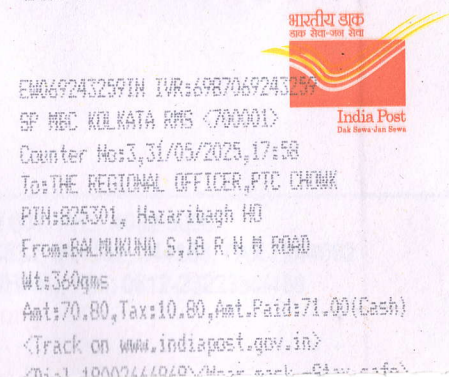
CC: The Member Secretary, JSPCB, T.A. Division Bldg. (Ground Floor), HEC Complex, Ranchi (Jharkhand)-834004

CC: The Regional Office, JSPCB, PTC Chowk, Hazaribagh (Jharkhand)-825301

-All for information and record.



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**BALMUKUND****SPONGE & IRON PVT. LTD.
(MEGA DIVN.)**

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Annexure-1

Year	Recurring Expenditure for Environment Protection	Amount Rs. In Lakh
2024-25 (October, 2024 to March, 2025)	Environmental Monitoring	2.312
	Running Cost of Pollution Control Equipments	5.29
	Greenbelt Development	2.16
Total during 02 nd half of the year 2024-25 :		9.762

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



Santosh Kumar
Authorized Signatory

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Annexure-2

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

CREP conditions & compliance :

1. **Coke Oven Plant** : We do not have any coke oven plant in the premises.

Steel Melting Shop:

2. **Fugitive Emission** : To minimize fugitive emission we have concreted shop floor, floor of RM & Finished goods shed, installed fixed type water sprinklers and bag filters in sufficient wherever required. Besides, manual water sprinklers (water Tankers) are also sprinkling water on the floor of the work-shop and approach roads of transportation. Roads are kept clean and wet. Fugitive emission is kept within prescribed limit. Dry Fog Systems wherever required have been installed and operated.
3. **Solid Waste/Hazardous Waste Management:** 100% Solid waste in form of induction slag is crushed, iron content is segregated from slag for reuse in the induction furnaces as raw material of M.S. Billet and remaining slag-dust is given to brick manufacturers and nearby villagers to fill their low land on demand at free of cost. Runner & Risers, End cutting and misroll, mill scale of TMT Bar are reused/melted again in induction furnaces as raw material of M.S. Billet. Refractories used in induction furnaces gets burnt and is not reusable and is used for leveling low land within premises. However, if any, refractories is received and is reusable, we are reusing the same as far as possible. Oily scum and metallic sludge recovered from rolling mills cooling bed tank is dried, briquetted and reused in melting furnaces. Iron fines generated or recovered from Iron Ore Beneficiation Plant during beneficiation of low grade iron ore to quality iron ore, is again beneficiated by hot process of iron ore beneficiation. Solid waste (soil) received from slime dam of Iron Ore Beneficiation Plant (Wet Process) is given to brick manufacturers free of cost for their use. During this compliance operational period, our Iron Ore Beneficiation (Wet Process) is inoperative. Iron dust collected from Pollution Control Equipment is also reused as raw material in the manufacturing process of M.S. Billet. Domestic waste is composted and reused in development of greenbelt. Thus 100% solid waste is being disposed off by re-using in eco-friendly manner. Need not to study the possibility of slag transportation back to abandoned mines to fill the cavities. We do not generate tar sludge/ETP sludge. We generate, store, and dispose hazardous waste namely burnt mobil oil safely for which we have obtained 'Authorization Certificate' from Jharkhand State Pollution Control Board, Ranchi. Hazardous waste in form of burnt mobil oil received from DG Set is reused in mobilization of machineries for their smooth operation within the premises. Sufficient fixed type water sprinklers and manual water sprinklers

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are available which efficiently suppress the dust within the factory premises and on approach road. Fume Extraction System along-with acoustic hoods is provided for suction of PM, fume and dispersal into the atmosphere after filtration within prescribed limit.

Water Conservation/ Water Pollution : Rain water is being harvested into an adequate size water pond to meet out the water requirement in lean season. Roof Top rain water is being used for ground water recharge to maintain the ground water table. Only make-up water is abstracted from ground. Water consumption is in cooling of hot product (TMT Bar/Rod) during operational period only. Cooling water is recycled and kept in closed circuit. Domestic waste water is treated by septic tank followed by soak-pit and being reused for dust suppression and green belt development. Ground water consumption is less than the prescribed standard for the steel plant. No water pollution exists in our plant. We strictly maintain 'Zero Discharge'. Rain Water Harvesting system including Roof Top Rain Water Harvesting system and ground water recharge system have been implemented.

4. **Installation of Continuous Stack Monitoring System**: We have installed Fume Extraction System with continuous online stack monitoring system for regular monitoring of dust emission(PM_{10} & $PM_{2.5}$), SO_2 analyzer and PM(AAQ) with remote calibration facility with 24 x 7 days connectivity to CPCB and JSPCB servers. Continuous data is transmitted to JSPCB and CPCB servers. Manual stack emission monitoring is also being done by NABL accredited laboratory. Test Reports for compliance period of the year 2024-25 (October & March) for stack emission monitoring are enclosed with the compliance report. Results are within the prescribed limit.
5. **Housekeeping** : Good Housekeeping is being maintained by placing things appropriately.
6. **To operate existing Pollution Control Equipment efficiently and to keep proper record of run hours, failure time and efficiently with immediate effect** : Fume Extraction System is installed, operate and maintain proper record. Manual monitoring reports of 03rd and 04th quarters of fy:2024-25 are being submitted to CPCB and SPCB along-with EC Compliance Report.

For Balmukund Sponge & Iron Pvt. Ltd.
(Mega Division)



Santosh Kumar
Authorized Signatory

Corporate Social Responsibility
Balmukund Sponge & Iron Pvt. Ltd., Giridih
(Mega Division)

Detail of CSR Expenses incurred during 01.04.2024 to 31.03.2025

Ledger :

Date	CSR Work done	Amount incurred-Rs.
	CSR Expenses incurred till 31.03.2024,detail submitted earlier(A)	2,87,17,677.72
10.04.2024	Amount paid to Alphabets, a teaching institution for poor students, vide NEFT (UTR) No.YESIG41010059548 dt.10.04.2024 as assistance to teach the poor students.	1,50,000.00
17.04.2024	Amount paid to Shubhkaran Triveni Foundation for various CSR activities like distribution of free foods to homeless, sadhus, poor students and for education to poor children including girl child in surrounding villages.	10,00,000.00
19.04.2024	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers .	1,01,000.00
30.04.2024	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children vide Receipt of date being a social responsibility.	75,000.00
30.04.2024	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.17904 dt.29.05.2024 for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers being a social responsibility.	1,25,000.00
30.04.2024	Amount paid toM/s. Om Electric & Hardware Stores, Giridih towards payment of their Inv.No.A000001 dt.01.04.2024 raised for electric work at school situated at Manjhiladih, Gadisirampur, Chatro.	13,036.00
02.05.2024	Amount paid to M/s. Aditya Vision Ltd. being payment of their Invoice No.5062425S/889 dt.02.05.2024 towards cost of renovation including installation of Samsung Ref 28 C3042S8/HL) at Traffic Thana, Giridih being a social responsibility.	23,500.00
06.05.2024	Amount paid to M/s. Medicine Distributors towards cost of wheel chair- 20 Nos) purchased and distributed amongst disabled persons at Giridih enabling them to cast their votes during Vidhan Sabha Election.	92,000.00
22.05.2024	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers .	1,01,000.00
29.05.2024	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.17905 dt.29.05.2024 for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers being a social responsibility.	1,25,000.00
29.05.2024	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children vide Receipt of date being a social responsibility.	75,000.00
15.06.2024	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers .	1,01,000.00
27.06.2024	Amount paid to Shubhkaran Triveni Foundation for various CSR activities like distribution of free foods to homeless, sadhus, poor students and for education to poor children including girl child in surrounding villages.	10,00,000.00
27.06.2024	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children vide Receipt of date being a social responsibility.	75,000.00

Date	CSR Work done	Amount incurred-Rs.
01.07.2024	Amount paid to M/s . Maa Gange Borewell towards borewell setup charges at Gadisrirampur, Chatro villages of Giridih district vide their Inv.No.02 dt.01.07.2024 for arrange of drinking water to villagers.	40,000.00
16.07.2024	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers .	1,01,000.00
19.07.2024	Amount paid to District Administration Office for conducting CSR work at Giridih vide Cheque No.006201 of date being a social responsibility.	5,00,000.00
13.08.2024	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers .	1,01,000.00
14.08.2024	Amount paid to M/s. Jharkhand Computerized Press, Giridih towards cost of 150 nos. of national flag purchased on the occasion of Independence Day vide their Inv.No.40 dt.14.08.2024 and distributed to poor students at nearby villages.	9,750.00
20.08.2024	Amount paid to M/s. Media Guru News Pvt. Ltd. towards Release Order for Advertisement (Publication-New 11 Bharat) vide Cheque No.008426 dt.20.08.2024.	50,000.00
23.08.2024	Amount paid to Shubhkaran Triveni Foundation for various CSR activities like distribution of free foods to homeless, sadhus, poor students and for education to poor children including girl child in surrounding villages.	10,00,000.00
28.08.2024	Amount paid to Shree Shyam Mandir vide Ch.No.620716 cleared on date	5,00,000.00
30.08.2024	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children vide Receipt of date being a social responsibility.	1,50,000.00
31.08.2024	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.18284 dt.31.08.2024 for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers being a social responsibility.	1,25,000.00
31.08.2024	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.18285 dt.31.08.2024 for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers being a social responsibility.	2,50,000.00
05.09.2024	Amount paid to All India Marwari Yuva Manch vide their Receipt No.3090/2024-25 of date for local CSR expenditure.	1,35,000.00
17.09.2024	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers .	1,01,000.00
27.09.2024	Amount paid to Shubhkaran Triveni Foundation for various CSR activities like distribution of free foods to homeless sadhus, poor students and for education to poor children including girl child in surrounding villages.	10,00,000.00
27.09.2024	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children vide Receipt of date being a social responsibility.	75,000.00
27.09.2024	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.18285 dt.31.08.2024 for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers being a social responsibility.	1,25,000.00

Date	CSR Work done	Amount incurred-Rs.
05.10.2024	Amount paid to All India Marwari Yuva Manch for organizing free medical camp, free blood donation camp as local CSR expenditure.	1,00,000.00
21.10.2024	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers .	1,01,000.00
30.10.2024	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children vide Receipt of date being a social responsibility.	75,000.00
30.10.2024	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.18688 dt.28.10.2024 for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers being a social responsibility.	1,25,000.00
15.11.2024	Amount paid to Sri Ganesh Surgical Emporium against Inv.No.A001324 dt.15.11.2024 towards cost of 26 Nos. of Wheel Chair during Jharkhand Vidhan Sabha Election, 2024 for carrying disabled to election booths in nearby villages.	1,11,930.00
19.11.2024	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers .	1,01,000.00
26.11.2024	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.18689 dt.26.11.2024 for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers being a social responsibility.	1,25,000.00
26.11.2024	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children vide Receipt of date being a social responsibility.	75,000.00
20.12.2024	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers.	1,01,000.00
27.12.2024	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children vide Receipt of date being a social responsibility.	75,000.00
27.12.2024	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.19120 dt.27.12.2024 for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers being a social responsibility.	1,25,000.00
14.01.2025	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.19121 dt.14.01.2025 for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers being a social responsibility.	1,25,000.00
14.01.2025	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children vide Receipt of date being a social responsibility.	75,000.00
24.01.2025	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers.	1,01,000.00
14.02.2025	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers.	1,01,000.00
18.02.2025	Amount paid to Kala Sangam, Giridih vide Cheque No.008466 of HDFC Bank to promote their functionality as social responsibility.	10,000.00
28.02.2025	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children vide Receipt of date being a social responsibility.	75,000.00

Date	CSR Work done	Amount incurred-Rs.
28.02.2025	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.19769 dt.20.02.2025 for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers being a social responsibility.	1,25,000.00
14.03.2025	Amount paid to M/s. Shri Godham Mahatirtha Pathmeda for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers .	1,01,000.00
17.03.2025	Amount paid to Alphabets, a teaching institution for poor students, as assistance to teach the poor students.	1,00,000.00
27.03.2025	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children vide Receipt of date being a social responsibility.	75,000.00
27.03.2025	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.19775 dt.27.03.2025 for better services to cattles including food, cleaning, arrangement of light at goshala and fulfillment of milk requirement of the nearby dwellers being a social responsibility.	1,25,000.00
	Total expenditure on CSR during 01st 6 months of FY:2024-25(B):	94,47,216.00
	Total expenditure on CSR till 31.03.2025(A+B):	3,81,64,893.72

For Balmukund Sponge & Iron Pvt. Ltd.

(Mega Division)



Santosh Kumar

Authorized Signatory

Self Environmental Audit Report

1. Solid Waste

Our factory office contains bins for both general waste and mixed recyclables (plastic bottles, card, cans and paper). Previously, on average each desk in the office areas has its own general waste bin and one recycling bin which has now been reduced to one in number and has been placed between desks. When the bins are emptied by the cleaners, the bin bags are not disposed of which is good practice and helps to minimize unnecessary waste.

2. 100% Solid waste in form of induction slag is crushed, iron content is segregated from slag for reuse in the induction furnaces as raw material of M.S. Billet and remaining slag-dust is given to brick manufacturers and nearby villagers to fill their low land on demand at free of cost. Runner & Risers, End cutting and misroll, mill-scale of TMT Bar, are reused/melted again in induction furnaces as raw material of M.S. Billet. Refractories used in induction furnaces gets burnt and is not reusable and is used for leveling low land within premises. However, if any, refractories is received and is reusable, we are reusing the same as far as possible. Oily scum and metallic sludge recovered from rolling mills cooling bed tank is dried, briquetted and reused in melting furnaces. Iron fines generated or recovered from Iron Ore Beneficiation Plant during beneficiation of low grade iron ore to quality iron ore, is again beneficiated by hot process of iron ore beneficiation. Solid waste (soil) received from slime dam of Iron Ore Beneficiation Plant (Wet Process) is given to brick manufacturers free of cost for their use. During this compliance operational period, our Iron Ore Beneficiation (Wet Process) is inoperative. Iron dust collected from Pollution Control Equipment is also reused as raw material in the manufacturing process of M.S. Billet. Domestic waste is composted and reused in development of greenbelt. Thus 100% solid waste is being disposed off by reusing in eco-friendly manner. We do not generate tar sludge/ETP sludge. We generate, store, and dispose hazardous waste namely burnt mobil oil safely for which we have obtained 'Authorization Certificate' from Jharkhand State Pollution Control Board, Ranchi. Hazardous waste in form of burnt mobil oil received from DG Set is reused in mobilization of machineries for their smooth operation within the premises. Sufficient fixed type water sprinklers and manual water sprinklers are available which efficiently suppress the dust within the factory premises and on approach road. Fume Extraction System along-with acoustic hoods is provided for suction of PM, fume and dispersal into the atmosphere after filtration within prescribed limit. Stack of fume extractor is facilitated with online monitoring system connected with CPCB and SPCB servers.

Recommendations:

- Solid waste generation during manufacturing process be collected appropriately and reused or disposed of in eco-friendly manner. Fine quality of raw material be used to reduce the quantity of solid waste generation.

2. Water

Water is used for cooling of hot products, and for domestic purposes only. Ground water is available for the purpose duly permitted by Central Ground Water Authority. Water use is monitored. Water quality is also monitored during pre/post monsoon period (twice a year). Digital Water Flow Meter (for measurement of ground water abstraction in KL) and Piezometer (for measurement of water level in mbgl) have been provided. During the audit, water consumption log-book was seen showing total consumption to be 14860.30 m³ and water level found to be in between 4.8 to 13.2 mbgl during the year 2024, Digital Water Meter No. 1 was showing reading 35977.40 m³ and No. 2 was showing 1155.80 m³ on 31.03.2025 i.e. the date of self-environmental audit. Further, a Water Audit by M/s.Triveni Water Institute, CII has been conducted during the month of August, 2024 and report submitted to the industry. During audit period Iron Ore Beneficiation Plant by washing low grade iron ore found to be non-operational consequently water consumption reduced to a great extent i.e. 3691.11 m³ less consumption than that of previous year.

Domestic waste water is stored into septic tank followed by soak-pit and reused in dust suppression and greenbelt development. There is no discharge outside factory premises. The industry has maintained '*Zero Liquid Discharge.*' Rain Water Harvesting System including Roof Top Rain Water Harvesting System has been implemented. During self-audit, no water pollution was found.

To minimize ground water consumption our industry has adopted practice to reuse the cooling water again and again by keeping it in a closed circuit and only make up water is abstracted from ground. Water for dust suppression and greenbelt development is met from rain water harvesting facility and surface rain water storage pond. Taps for domestic water consumption is provided.

Recommendations:

- During audit, water consumption is found under limit. It may be reduced even now. Minimize water consumption.

3. Energy

Energy use is a key issue for the BSIPL, particularly as the type of improvement that can be made is limited. There is one electricity meter at site located on the ground floor. The electricity intake is 23MVA. During the audit a bill for March, 2025 was seen. Energy (Electric Power) is supplied by Damodar Valley Corporation Ltd. (DVC), Giridih Grid. The BSIPL is billed on a monthly basis, and is based on actual consumption. Our Industry have adopted continuous system of hot charging of M.S. Billets with surplus heat to Rolling Mills as described in manufacturing process of TMT Bar/Rod. To conserve energy our industry have completely integrated rolling mill with M.S. Billet plant. Re-heating of M.S. Billet slabs for manufacturing of TMT Bars / Rods has been avoided. Our Industry have provided LED lights at all common areas, street lights, parking area, office, canteen, etc. for minimal electric power consumption. Staff are encouraged to switch off their own lights, computer monitors and other equipment when not in use. No wire passing electric power was found to be naked causing danger to our employees or outsiders visiting the premises.

4. Greenery

- Green Belt in the maximum vacant area has been developed as per CPCB guidelines. Native tree species are planted. Growth of plants is being monitored and maintained. Our industry is enhancing density and biodiversity of the Vacant land due to withering plants are regularly replaced by new one and greenery is maintained.

Recommendations:

- NIL

5. Heating and cooling

Smokeless electric induction furnaces are being used for manufacturing of M. S. Billet. All other units of the industry are electric-operated. Hot M.S. Billet is directly fed to Rolling Mill for production of TMT Bar. Hot M. S. Billet is not required to be cooled at Induction furnace unit and reheating at Rolling Mill unit. Cooling of hot TMT Bar/Rod is done. Cooling water for hot rolled TMT Bar /Rod is kept in a closed circuit and reused again and again. Clean environment is being maintained. Our industry do not burn fossil fuels for electricity or heat.

Recommendations:

- NIL

6. Transport

Approach road and transport road within premises are kept wet by sprinkling water. Vehicles entering into premises with raw materials are, after weighing, directly driven to raw material storage sheds which are kept clean and dust-free. During audit it was noticed that trucks entering premises of the factory carrying the Raw materials are tightly covered in eco-friendly manner to save the environment from fugitive dust pollution. It was also noticed that only PUC certificate holding trucks are being allowed to enter into premises.

Recommendations:

- NIL

7. Other/General

The following other environmental issues were covered during the audit and noticed that :

- There has been constituted a Environment Monitoring Cell which looks after the work of planning and monitoring of wellness of environment.
- Besides, online monitoring of stack emission, manual quarterly monitoring of Ambient Air Quality, Ambient Noise Level, Fugitive Emission, Stack Emission are carried on and reports submitted to concerned authorities.

For Balmukund Sponge & Iron Pvt. Ltd.
(Mega Division)



Santosh Kumar

Authorized Signatory



सत्यमेव जयते



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 ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /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 m³/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

**BALMUKUND****SPONGE & IRON PVT. LTD.
(MEGA DVN.)**

HEAD OFFICE : NEAR VISHWANATH NURSING HOME
BAJRANG CHOWK, AT-BARMASIA, DIST/PO.: GIRIDIH-815301
PHONE : 06532-250597
E-mail : balmukund.sponge@gmail.com
Website : www.balmukund.com
CIN : U27310WB1999PTC266185



EW251253004TH IVR:6987251253004
SP. MDC KOLKATA RMS (700001)
Counter No:3,26/04/2025,15:34
To:THE MEMBER SECRETARY,DHURWA
PIN:834004, Dhurwa SO
From:BS&I P LTD ,KOLKATA
Wt:32gms
Amt:41.30,Tax:6.30,Amt.Paid:41.00(Cash)
<Track on www.indiapost.gov.in>

26th April, 2025

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 : 2024-25

Sir,

We are submitting hereto attached Environmental Statement (Form V) for the Financial Year 2024-25 for your needful.

Thanking you,
Yours faithfully,

For **Balmukund Sponge & Iron Pvt. Ltd.**

Santosh Kumar
Manager



Encl: As above.

REGD. OFFICE : 18, R. N. MUKHERJEE ROAD, (1ST FLOOR), KOLKATA-700 001, PH.: 4032 5000
WORKS : AT- CHATRO. TUNDI ROAD, P.O.: GADISIRAMPUR, GIRIDIH - 815 302, PH.: (06532) 244162, 244163, FAX : 244062
PATNA OFFICE : 603, SHANTIKUNJ APARTMENT, CHHAJJUBAGH, PATNA - 800 001(BIHAR), PH.: 0612-2322388/488
All Disputes are Subject to Patna (Bihar) jurisdiction only

Environment Statement for the Financial Year ending the 31st March, 2025
PART - A

- 1) Name & Address of the owner/occupier of the industry operation or process : Pradeep Kumar Sahewal
Balmukund Sponge & Iron 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 - 110 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 - 14.11.2010
Iron Ore (Beneficiated)- 20.01.2016
- 5) Date of the last environmental statement submitted : 02.05.2024

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	0.889	0.869
2. Scrap of Iron & Steel		0.078	0.020
3. Pig Iron		0.191	0.233
4. Silico Manganese		0.014	0.014
5. Carbon Fines/CPC		0.000	0.000
1. M.S. Ingot/Billet	TMT Rod	1.005	1.024
1. Iron Ore	Pig Iron	1.696	1.449
2. Hard Coke		0.838	0.770
3. Dolomite/Quartz		0.230	0.190
4. Lime Stone		0.230	0.120
5. Iron Pellet		0.042	0.261
6. Iron Ore Fines		0.105	0.080

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	1.315	1.034
2. Induction Slag	Iron Metal	12.52	12.508

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)	410	445

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	19751735*	22202460*
ii) From MBF unit – Slag	7743454**	9042940**
iii) Beneficiation of Iron Ore(Soil)	0	0
b) From Pollution Control facilities	9296	10870
c) Quantity recycled or re-utilized		
1)Sold -MBF unit(Pig) Slag	Sold-8489265**	Sold-7793400**
2)From Pollution Control facilities(Pig)	Reused in MBF-9296	Reused in MBF-10870
a) Disposal		
Induction slag	Crushing-12591790 Kg; Used in land filling within premises- 12772430 Kg, C/B- 9461240 Kg*. Crushed Waste/Dust 11586330 Kg Given Free of cost to brick manufacturers	*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.
Washing Slag- to brick manufacturer	0	0

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 PM₁₀, CO, SO₂, NO_x 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 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 roads 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 & Iron Pvt. Ltd.
(Mega Division)



Pantoh Kumar
Manager

TEST REPORT

ULR No.: TC1116324000000250F	Test Report No.	: SRL/R/GW/OCT/24/253
Issued to:	Report Issue Date	: 21/10/2024
M/s Balmukund Sponge & Iron (P) Limited,	Sample Receipt Date	: 16/10/2024
At.: Chatro – Tundi Road, District: Giridih,	Analysis Date	: 16/10/2024 – 19/10/2024
Jharkhand.	Sample Collected by	: Client
	Sample Quantity	: 2 Litre
	Sample Condition	: Sealed
	Weather Condition	: Partly Cloudy
	Lab. Sample No.	: GW – 102

Type of Sample	: Ground Water	Sampling Method	: Grab
Location of Sample	: Bore Well No. 1 (Plant Campus)	Date of Sampling	: 16/10/2024

TEST RESULTS

Sl. No.	Parameters	Results	Regulatory Standards As per IS: 10500 (2012) (Drinking Water Specification)		Test Method (s)
			Desirable Limits	Permissible Limits	
1.	Colour, Hazen units, Max.	<5	5	15	APHA 23 rd Edn. 2120 B
2.	Odour	Unobjectionable	Agreeable	Agreeable	APHA 23 rd Edn. 2150 B
3.	Taste	Agreeable	Agreeable	Agreeable	APHA 23 rd Edn. 2160 B
4.	Turbidity, NTU, Max.	<5	1	5	APHA 23 rd Edn. 2130 B
5.	Conductivity, μ mhos/cm	502	-	-	APHA 23 rd Edn. 2510 B
6.	pH Value	7.0	6.5 to 8.5	No relaxation	APHA 23 rd Edn. 4500H B
7.	Total Hardness (as CaCO_3), mg/l	154	200	600	APHA 23 rd Edn. 2340 C
8.	Iron (as Fe), mg/l	<0.10	0.3	No relaxation	APHA 23 rd Edn. 3500Fe B
9.	Chloride (as Cl), mg/l	29	250	1000	APHA 23 rd Edn. 4500 Cl ⁻ B
10.	Residual Free Chlorine, mg/l	Nil	0.2	1.0	APHA 23 rd Edn. 4500 Cl B
11.	Fluoride (as F) mg/L	0.60	1.0	1.5	APHA 23 rd Edn. 4500 F D
12.	Dissolved Solids mg/l	301	500	2000	APHA 23 rd Edn. 4500 O C
13.	Calcium (as Ca), mg/l	36	75	200	APHA 23 rd Edn. 3500 Ca B
14.	Sodium (as Na), mg/l	12	-	-	APHA 23 rd Edn. 3500 Na B
15.	Potassium (as K), mg/l	8	-	-	APHA 23 rd Edn. 3500 K B
16.	Magnesium (as Mg), mg/l	16	30	100	APHA 23 rd Edn. 3500 Mg B
17.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn. 3500 Cu B
18.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn. 3500 Mn B
19.	Sulphate (as SO_4), mg/l	54	200	400	APHA 23 rd Edn. 4500 SO_4^{2-} E
20.	Nitrate (as NO_3), mg/l	4.2	45	No relaxation	APHA 23 rd Edn. 4500 NO_3 B
21.	Zinc (as Zn), mg/l	<0.01	5	15	APHA 23 rd Edn. 3500 Zn B
22.	Alkalinity (as CaCO_3) mg/l	188	200	600	APHA 23 rd Edn. 2320 B

Note:

(Water Level was observed as 7.8 Mbg/l)

- The results relate only to the items received and tested.
- Test report shall not be reproduced except in full, without written approval of the laboratory.
- Sample shall be discarded after 15 days from the date of issue of the test reports.
- The results apply to the sample as received.

Dr. Niraj Kumar Singh
(Authorized Signatory)

-- End of the Report --

TEST REPORT

ULR No.: TC1116324000000251F	Test Report No.	: SRL/R/GW/OCT/24/254
Issued to:	Report Issue Date	: 21/10/2024
M/s Balmukund Sponge & Iron (P) Limited,	Sample Receipt Date	: 16/10/2024
At.: Chatro – Tundi Road, District: Giridih,	Analysis Date	: 16/10/2024 – 19/10/2024
Jharkhand.	Sample Collected by	: Client
	Sample Quantity	: 2 Litre
	Sample Condition	: Sealed
	Weather Condition	: Partly Cloudy
	Lab. Sample No.	: GW – 103

Type of Sample	: Ground Water	Sampling Method	: Grab
Location of Sample	: Bore Well No. 2 (Plant Campus)	Date of Sampling	: 16/10/2024

TEST RESULTS

Sl. No.	Parameters	Results	Regulatory Standards As per IS: 10500 (2012) (Drinking Water Specification)		Test Method (s)
			Desirable Limits	Permissible Limits	
1.	Colour, Hazen units, Max.	<5	5	15	APHA 23 rd Edn. 2120 B
2.	Odour	Unobjectionable	Agreeable	Agreeable	APHA 23 rd Edn. 2150 B
3.	Taste	Agreeable	Agreeable	Agreeable	APHA 23 rd Edn. 2160 B
4.	Turbidity, NTU, Max.	<5	1	5	APHA 23 rd Edn. 2130 B
5.	Conductivity, μ mhos/cm	1132	-	-	APHA 23 rd Edn. 2510 B
6.	pH Value	6.8	6.5 to 8.5	No relaxation	APHA 23 rd Edn. 4500H B
7.	Total Hardness (as CaCO ₃), mg/l	540	200	600	APHA 23 rd Edn. 2340 C
8.	Iron (as Fe), mg/l	<0.10	0.3	No relaxation	APHA 23 rd Edn. 3500Fe B
9.	Chloride (as Cl), mg/l	42	250	1000	APHA 23 rd Edn. 4500 Cl B
10.	Residual Free Chlorine, mg/l	Nil	0.2	1.0	APHA 23 rd Edn. 4500 Cl B
11.	Fluoride (as F) mg/L	0.56	1.0	1.5	APHA 23 rd Edn. 4500 F D
12.	Dissolved Solids mg/l	680	500	2000	APHA 23 rd Edn. 4500 O C
13.	Calcium (as Ca), mg/l	112	75	200	APHA 23 rd Edn. 3500 Ca B
14.	Sodium (as Na), mg/l	14	-	-	APHA 23 rd Edn. 3500 Na B
15.	Potassium (as K), mg/l	9	-	-	APHA 23 rd Edn. 3500 K B
16.	Magnesium (as Mg), mg/l	63	30	100	APHA 23 rd Edn. 3500 Mg B
17.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn. 3500 Cu B
18.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn. 3500 Mn B
19.	Sulphate (as SO ₄), mg/l	56	200	400	APHA 23 rd Edn. 4500 SO ₄ E
20.	Nitrate (as NO ₃), mg/l	2.8	45	No relaxation	APHA 23 rd Edn. 4500 NO ₃ B
21.	Zinc (as Zn), mg/l	<0.01	5	15	APHA 23 rd Edn. 3500 Zn B
22.	Alkalinity (as CaCO ₃) mg/l	220	200	600	APHA 23 rd Edn. 2320 B

Note:

1. The results relate only to the items received and tested.
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.
4. The results apply to the sample as received.

(Water Level was observed as 9.01 Mbg)

Niraj

Dr. Niraj Kumar Singh
(Authorized Signatory)

-- End of the Report --

TEST REPORT

ULR No.: TC1116324000000253F	Test Report No.	: SRL/R/GW/OCT/24/256
Issued to:	Report Issue Date	: 21/10/2024
M/s Balmukund Sponge & Iron (P) Limited,	Sample Receipt Date	: 16/10/2024
At: Chatro – Tundi Road, District: Giridih,	Analysis Date	: 16/10/2024 – 19/10/2024
Jharkhand.	Sample Collected by	: Client
	Sample Quantity	: 2 Litre
	Sample Condition	: Sealed
	Weather Condition	: Partly Cloudy
	Lab. Sample No.	: GW – 105

Type of Sample	: Ground Water	Sampling Method	: Grab
Location of Sample	: Dug Well, Gaganpur Village (Near Sri Lakhan Tudu House)	Date of Sampling	: 16/10/2024

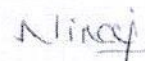
TEST RESULTS

Sl. No.	Parameters	Results	Regulatory Standards As per IS: 10500 (2012) (Drinking Water Specification)		Test Method (s)
			Desirable Limits	Permissible Limits	
1.	Colour, Hazen units, Max.	<5	5	15	APHA 23 rd Edn. 2120 B
2.	Odour	Unobjectionable	Agreeable	Agreeable	APHA 23 rd Edn. 2150 B
3.	Taste	Agreeable	Agreeable	Agreeable	APHA 23 rd Edn. 2160 B
4.	Turbidity, NTU, Max.	<5	1	5	APHA 23 rd Edn. 2130 B
5.	Conductivity, μ mhos/cm	513	-	-	APHA 23 rd Edn. 2510 B
6.	pH Value	7.2	6.5 to 8.5	No relaxation	APHA 23 rd Edn. 4500H B
7.	Total Hardness (as CaCO ₃), mg/l	186	200	600	APHA 23 rd Edn. 2340 C
8.	Iron (as Fe), mg/l	<0.10	0.3	No relaxation	APHA 23 rd Edn. 3500Fe B
9.	Chloride (as Cl), mg/l	30	250	1000	APHA 23 rd Edn. 4500 Cl B
10.	Residual Free Chlorine, mg/l	Nil	0.2	1.0	APHA 23 rd Edn. 4500 Cl B
11.	Fluoride (as F) mg/L	0.44	1.0	1.5	APHA 23 rd Edn. 4500 F D
12.	Dissolved Solids mg/l	312	500	2000	APHA 23 rd Edn. 4500 O C
13.	Calcium (as Ca), mg/l	42	75	200	APHA 23 rd Edn. 3500 Ca B
14.	Sodium (as Na), mg/l	11	-	-	APHA 23 rd Edn. 3500 Na B
15.	Potassium (as K), mg/l	9	-	-	APHA 23 rd Edn. 3500 K B
16.	Magnesium (as Mg), mg/l	20	30	100	APHA 23 rd Edn. 3500 Mg B
17.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn. 3500 Cu B
18.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn. 3500 Mn B
19.	Sulphate (as SO ₄), mg/l	32	200	400	APHA 23 rd Edn. 4500 SO ₄ ²⁻ E
20.	Nitrate (as NO ₃), mg/l	3.6	45	No relaxation	APHA 23 rd Edn. 4500 NO ₃ B
21.	Zinc (as Zn), mg/l	<0.01	5	15	APHA 23 rd Edn. 3500 Zn B
22.	Alkalinity (as CaCO ₃) mg/l	194	200	600	APHA 23 rd Edn. 2320 B

Note:

(Water Level was observed as 5.2 Mbgl)

1. The results relate only to the items received and tested.
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.
4. The results apply to the sample as received.

Dr. Niraj Kumar Singh
(Authorized Signatory)

-- End of the Report --

TEST REPORT

ULR No.: TC1116324000000051F	Test Report No.	: SRL/R/GW/MAY/24/52
Issued to:	Report Issue Date	: 27/05/2024
M/s Balmukund Sponge & Iron (P) Limited, At.: Chatro – Tundi Road, District: Giridih, Jharkhand.	Sample Receipt Date	: 20/05/2024
	Analysis Date	: 20/05/2024 – 24/05/2024
	Sample Collected by	: Client
	Sample Quantity	: 1 Litre
	Sample Condition	: Sealed
	Weather Condition	: Clear
	Lab. Sample No.	: DW – 17

Type of Sample	: Ground Water	Sampling Method	: Grab
Location of Sample	: Bore Well No. 1 (Plant Campus)	Date of Sampling	: 20/05/2024

TEST RESULTS

Sl. No.	Parameters	Results	Regulatory Standards As per IS: 10500 (2012) (Drinking Water Specification)		Test Method (s)
			Desirable Limits	Permissible Limits	
1.	Colour, Hazen units, Max.	<5	5	15	APHA 23 rd Edn. 2120 B
2.	Odour	Unobjectionable	Agreeable	Agreeable	APHA 23 rd Edn. 2150 B
3.	Taste	Agreeable	Agreeable	Agreeable	APHA 23 rd Edn. 2160 B
4.	Turbidity, NTU, Max.	<1	1	5	APHA 23 rd Edn. 2130 B
5.	Conductivity, $\mu\text{mhos/cm}$	502	-	-	APHA 23 rd Edn. 2510 B
6.	pH Value	7.2	6.5 to 8.5	No relaxation	APHA 23 rd Edn. 4500H B
7.	Total Hardness (as CaCO_3), mg/l	162	200	600	APHA 23 rd Edn. 2340 C
8.	Iron (as Fe), mg/l	<0.10	0.3	No relaxation	APHA 23 rd Edn. 3500Fe B
9.	Chloride (as Cl), mg/l	31	250	1000	APHA 23 rd Edn. 4500 Cl B
10.	Residual Free Chlorine, mg/l	Nil	0.2	1.0	APHA 23 rd Edn. 4500 Cl B
11.	Fluoride (as F) mg/L	0.61	1.0	1.5	APHA 23 rd Edn. 4500 F D
12.	Dissolved Solids mg/l	301	500	2000	APHA 23 rd Edn. 4500 O C
13.	Calcium (as Ca), mg/l	39	75	200	APHA 23 rd Edn. 3500 Ca B
14.	Sodium (as Na), mg/l	15	-	-	APHA 23 rd Edn. 3500 Na B
15.	Potassium (as K), mg/l	9	-	-	APHA 23 rd Edn. 3500 K B
16.	Magnesium (as Mg), mg/l	16	30	100	APHA 23 rd Edn. 3500 Mg B
17.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn. 3500 Cu B
18.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn. 3500 Mn B
19.	Sulphate (as SO_4), mg/l	63	200	400	APHA 23 rd Edn. 4500 SO_4^{2-} E
20.	Nitrate (as NO_3), mg/l	2.8	45	No relaxation	APHA 23 rd Edn. 4500 NO_3 B
21.	Arsenic (as As), mg/l.	<0.01	0.01	0.05	APHA 23 rd Edn. 3500 As B
22.	Lead (as Pb), mg/l	<0.005	0.01	No relaxation	APHA 23 rd Edn. 3500 Pb B
23.	Nickel (as Ni), mg/l	<0.01	0.02	No relaxation	APHA 23 rd Edn. 3500 Ni B
24.	Zinc (as Zn), mg/l	<0.01	5	15	APHA 23 rd Edn. 3500 Zn B
25.	Alkalinity (as CaCO_3) mg/l	196	200	600	APHA 23 rd Edn. 2320 B

Note:

(Water Level was observed as 13.2 Mbgl)

1. The results relate only to the items received and tested.
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.

Niraj

Dr. Niraj Kumar Singh
(Authorized Signatory)

-- End of the Report --

TEST REPORT

ULR No.: TC11163240000000052F	Test Report No.	: SRL/R/GW/MAY/24/53
Issued to:	Report Issue Date	: 27/05/2024
M/s Balmukund Sponge & Iron (P) Limited, At.: Chatro – Tundi Road, District: Giridih, Jharkhand.	Sample Receipt Date	: 20/05/2024
	Analysis Date	: 20/05/2024 – 24/05/2024
	Sample Collected by	: Client
	Sample Quantity	: 1 Litre
	Sample Condition	: Sealed
	Weather Condition	: Clear
	Lab. Sample No.	: DW – 18

Type of Sample	: Ground Water	Sampling Method	: Grab
Location of Sample	: Bore Well No. 2 (Plant Campus)	Date of Sampling	: 20/05/2024

TEST RESULTS

Sl. No.	Parameters	Results	Regulatory Standards As per IS: 10500 (2012) (Drinking Water Specification)		Test Method (s)
			Desirable Limits	Permissible Limits	
1.	Colour, Hazen units, Max.	<5	5	15	APHA 23 rd Edn. 2120 B
2.	Odour	Unobjectionable	Agreeable	Agreeable	APHA 23 rd Edn. 2150 B
3.	Taste	Agreeable	Agreeable	Agreeable	APHA 23 rd Edn. 2160 B
4.	Turbidity, NTU, Max.	<1	1	5	APHA 23 rd Edn. 2130 B
5.	Conductivity, μ mhos/cm	1132	-	-	APHA 23 rd Edn. 2510 B
6.	pH Value	6.9	6.5 to 8.5	No relaxation	APHA 23 rd Edn. 4500H B
7.	Total Hardness (as CaCO_3), mg/l	588	200	600	APHA 23 rd Edn. 2340 C
8.	Iron (as Fe), mg/l	<0.10	0.3	No relaxation	APHA 23 rd Edn. 3500Fe B
9.	Chloride (as Cl), mg/l	41	250	1000	APHA 23 rd Edn. 4500 Cl ⁻ B
10.	Residual Free Chlorine, mg/l	Nil	0.2	1.0	APHA 23 rd Edn. 4500 Cl B
11.	Fluoride (as F) mg/L	0.58	1.0	1.5	APHA 23 rd Edn. 4500 F D
12.	Dissolved Solids mg/l	680	500	2000	APHA 23 rd Edn. 4500 O C
13.	Calcium (as Ca), mg/l	114	75	200	APHA 23 rd Edn. 3500 Ca B
14.	Sodium (as Na), mg/l	18	-	-	APHA 23 rd Edn. 3500 Na B
15.	Potassium (as K), mg/l	11	-	-	APHA 23 rd Edn. 3500 K B
16.	Magnesium (as Mg), mg/l	74	30	100	APHA 23 rd Edn. 3500 Mg B
17.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn. 3500 Cu B
18.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn. 3500 Mn B
19.	Sulphate (as SO_4), mg/l	68	200	400	APHA 23 rd Edn. 4500 SO_4^{2-} E
20.	Nitrate (as NO_3), mg/l	2.6	45	No relaxation	APHA 23 rd Edn. 4500 NO_3 B
21.	Arsenic (as As), mg/l.	<0.01	0.01	0.05	APHA 23 rd Edn. 3500 As B
22.	Lead (as Pb), mg/l	<0.005	0.01	No relaxation	APHA 23 rd Edn. 3500 Pb B
23.	Nickel (as Ni), mg/l	<0.01	0.02	No relaxation	APHA 23 rd Edn. 3500 Ni B
24.	Zinc (as Zn), mg/l	<0.01	5	15	APHA 23 rd Edn. 3500 Zn B
25.	Alkalinity (as CaCO_3) mg/l	242	200	600	APHA 23 rd Edn. 2320 B

Note:

1. The results relate only to the items received and tested.
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.

(Water Level was observed as 4.8 Mbgl)

Niraj

Dr. Niraj Kumar Singh
(Authorized Signatory)

-- End of the Report --

TEST REPORT

ULR No.: TC1116324000000054F	Test Report No.	: SRL/R/GW/MAY/24/55
Issued to:	Report Issue Date	: 27/05/2024
M/s Balmukund Sponge & Iron (P) Limited, At.: Chatro – Tundi Road, District: Giridih, Jharkhand.	Sample Receipt Date	: 20/05/2024
	Analysis Date	: 20/05/2024 – 24/05/2024
	Sample Collected by	: Client
	Sample Quantity	: 1 Litre
	Sample Condition	: Sealed
	Weather Condition	: Clear
	Lab. Sample No.	: DW – 20

Type of Sample	: Ground Water	Sampling Method	: Grab
Location of Sample	: Dug Well, Gaganpur Village (Near Sri Lakhan Tudu House)	Date of Sampling	: 20/05/2024

TEST RESULTS

Sl. No.	Parameters	Results	Regulatory Standards As per IS: 10500 (2012) (Drinking Water Specification)		Test Method (s)
			Desirable Limits	Permissible Limits	
1.	Colour, Hazen units, Max.	<5	5	15	APHA 23 rd Edn. 2120 B
2.	Odour	Unobjectionable	Agreeable	Agreeable	APHA 23 rd Edn. 2150 B
3.	Taste	Agreeable	Agreeable	Agreeable	APHA 23 rd Edn. 2160 B
4.	Turbidity, NTU, Max.	<1	1	5	APHA 23 rd Edn. 2130 B
5.	Conductivity, μ mhos/cm	513	-	-	APHA 23 rd Edn. 2510 B
6.	pH Value	7.1	6.5 to 8.5	No relaxation	APHA 23 rd Edn. 4500H B
7.	Total Hardness (as CaCO_3), mg/l	194	200	600	APHA 23 rd Edn. 2340 C
8.	Iron (as Fe), mg/l	<0.10	0.3	No relaxation	APHA 23 rd Edn. 3500Fe B
9.	Chloride (as Cl), mg/l	32	250	1000	APHA 23 rd Edn. 4500 Cl ⁻ B
10.	Residual Free Chlorine, mg/l	Nil	0.2	1.0	APHA 23 rd Edn. 4500 Cl B
11.	Fluoride (as F) mg/L	0.46	1.0	1.5	APHA 23 rd Edn. 4500 F D
12.	Dissolved Solids mg/l	312	500	2000	APHA 23 rd Edn. 4500 O C
13.	Calcium (as Ca), mg/l	48	75	200	APHA 23 rd Edn. 3500 Ca B
14.	Sodium (as Na), mg/l	16	-	-	APHA 23 rd Edn. 3500 Na B
15.	Potassium (as K), mg/l	8	-	-	APHA 23 rd Edn. 3500 K B
16.	Magnesium (as Mg), mg/l	17	30	100	APHA 23 rd Edn. 3500 Mg B
17.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn. 3500 Cu B
18.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn. 3500 Mn B
19.	Sulphate (as SO_4), mg/l	43	200	400	APHA 23 rd Edn. 4500 SO_4^{2-} E
20.	Nitrate (as NO_3), mg/l	2.3	45	No relaxation	APHA 23 rd Edn. 4500 NO_3 B
21.	Arsenic (as As), mg/l.	<0.01	0.01	0.05	APHA 23 rd Edn. 3500 As B
22.	Lead (as Pb), mg/l	<0.005	0.01	No relaxation	APHA 23 rd Edn. 3500 Pb B
23.	Nickel (as Ni), mg/l	<0.01	0.02	No relaxation	APHA 23 rd Edn. 3500 Ni B
24.	Zinc (as Zn), mg/l	<0.01	5	15	APHA 23 rd Edn. 3500 Zn B
25.	Alkalinity (as CaCO_3) mg/l	216	200	600	APHA 23 rd Edn. 2320 B

Note:

- The results relate only to the items received and tested.
- Test report shall not be reproduced except in full, without written approval of the laboratory.
- Sample shall be discarded after 15 days from the date of issue of the test reports.

(Water Level was observed as 4.6 Mbgl)

Niraj

Dr. Niraj Kumar Singh
(Authorized Signatory)

-- End of the Report --

KALYANI LABORATORIES PVT.LTD.

Kalyani Laboratories

PLOT NO-78/944, MILLENNIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

TC-12063

NABL ULR NO : TC1206325000008407
Test Report No : KLPL/12/24/ENVN/00439 **Issue Date** : 06-Jan, 2025
Reference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)
Address : (MEGA DIV, CCM & IRON ORE BENEFICIATION PLANT), AT- CHATRO-TUNDI ROAD, GIRIDIH, JHARKHAND.
Date of receipt : 30-Dec, 2024 **Commenced On** : 30-Dec, 2024 **Completion On** : 03-Jan, 2025
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/QSP-07 & KLPL/QSP/AIR-2019

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR LABOUR QUARTER, DT- 25.12.2024 TO 26.12.2024				
Sulphur Dioxide	µg/m ³	80	16.30	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	29.00	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	80.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	47.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.52	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	26.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m ³	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	20.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.1	KLPL/SOP/AIR-07, Issue No.01: 2019
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Location & Date : NEAR LABOUR REST ROOM BUILDING, DT- 25.12.2024 TO 26.12.2024

Sulphur Dioxide	µg/m ³	80	18.70	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	34.00	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	85.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	50.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.54	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	28.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m ³	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	24.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	20	4.20	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.1	KLPL/SOP/AIR-07, Issue No.01: 2019
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Location & Date : NEAR NORTHERN BOUNDARY, DT- 25.12.2024 TO 26.12.2024

Sulphur Dioxide	µg/m ³	80	17.50	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	32.00	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	83.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	49.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017



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TEST REPORT

TC-12063

NABL ULR NO : TC1206325000008407

Test Report No : KLPL/12/24/ENVN/00439

Issue Date : 06-Jan, 2025

Reference : -

Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)

Address : (MEGA DIV, CCM & IRON ORE BENEFICIATION PLANT), AT- CHATRO-TUNDI ROAD, GIRIDIH, JHARKHAND.

Date of receipt : 30-Dec, 2024 Commenced On : 30-Dec, 2024 Completion On: 03-Jan, 2025

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure: KLPL/QSP-07 & KLPL/QSP/AIR-2019

Parameters	Unit	Standard Value	Results	Test Method
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.52	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	29.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m ³	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	22.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Location & Date : NEAR SOUTHERN BOUNDARY, DT- 25.12.2024 TO 26.12.2024

Sulphur Dioxide	µg/m ³	80	19.20	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	35.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	87.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	51.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.56	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	30.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m ³	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	24.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	20	4.20	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

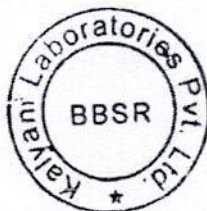
Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement is as per standard specification NAAQS:2009

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Rekha Nayak
Dr. Rekha Nayak 07/01/2025
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10021569B

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TEST REPORT

Test Report No	: KLPL/12/24/ENVN/00439A	Issue Date	: 06-Jan-2024	
Amendment No	: -	Amendment Date	: -	
Reference	: -			
Customer Name	: BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)			
Address	: (MEGA DIVISION, CCM & IRON ORE BENEFICIATION PLANT, CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND			
Date of receipt	: 30-Dec, 2024	Commenced On:	30-Dec, 2024	
		Completion On:	31-Dec, 2024	
Sample Name	: AIR QUALITY MONITORING (FUGITIVE DUST)			
Sample Condition	: FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG			
Sample Collected By	: MR. SUDHIR KUMAR BARIK			
Ref.To Sampling Procedure:	KLPL/QSP-07			
Parameters	Unit	Standard Value	Results	Test Method
Location & Date	: NEAR HOPPER (IRON ORE BENEFICIATION UNIT), DT- 26.12.2024			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	3000	1810	KLPL/SOP/AIR-11:2012
Location & Date	: NEAR RAW MATERIAL STORAGE YARD (IRON ORE BENEFICIATION UNIT), DT- 26.12.2024			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	3000	1692	KLPL/SOP/AIR-11:2012
Location & Date	: NEAR SCRAP YARD (M.S.BILLET SECTION), DT- 26.12.2024			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	3000	1544	KLPL/SOP/AIR-11:2012
Location & Date	: NEAR WEIGH BRIDGE (M. S. BILLET SECTION), DT- 26.12.2024			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	3000	1830	KLPL/SOP/AIR-11:2012

Remarks : Standard Specification as per G.S.R. 277(E), MOEF & CC , 31st March 2012

Any unusual feature observed during determination : NIL

Analysed By

Mr. Digamber Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Rekha Nayak
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10021588B

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TEST REPORT

TC-12063

NABL ULR NO : TC1206325000008408

Test Report No : KLPL/12/24/ENVN/00440

Issue Date : 06-Jan-2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)

Address : (SMS & IOB PLANT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND

Date of receipt : 30-Dec, 2024 Commenced On: 30-Dec, 2024 Completion On: 30-Dec, 2024

Sample Name : NOISE (DAY TIME)

Sample Condition : -

Sample collected by : MR. SUDHIR KUMAR BARIK

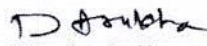
Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR HOPPER (IRON ORE BENEFICIATION UNIT), DT- 25.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	68.4	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (IRON ORE BENEFICIATION UNIT), DT- 25.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	64.7	IS 9989:1981 (RA 2014)
Location & Date : NEAR SCRAP YARD (M.S. BILLET SECTION), DT- 25.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	62.9	IS 9989:1981 (RA 2014)
Location & Date : NEAR WEIGH BRIDGE (M.S. BILLET SECTION), DT- 25.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	67.5	IS 9989:1981 (RA 2014)

Remarks : NIL

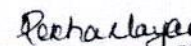
Any unusual feature observed during determination : NIL
Requirement is As Per Standard Specification Noise Rule 2000

Analysed By


Mr. Digamber Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory


Dr. Rekha Nayak
For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 10021589B

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TEST REPORT

TC-12063

NABL ULR NO : TC1206325000008408

Test Report No : KLPL/12/24/ENVN/00440

Issue Date : 06-Jan-2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)

Address : (SMS & IOB PLANT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND

Date of receipt : 30-Dec, 2024 Commenced On: 30-Dec, 2024 Completion On: 30-Dec, 2024

Sample Name : NOISE (NIGHT TIME)

Sample Condition : -

Sample collected by : MR. SUDHIR KUMAR BARIK

Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR HOPPER (IRON ORE BENEFICIATION UNIT), DT- 25.12.2024 To 26.12.2024				
Noise Level Indl. Area (Night)	dB(A)	70	67.1	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (IRON ORE BENEFICIATION UNIT), DT- 25.12.2024 To 26.12.2024				
Noise Level Indl. Area (Night)	dB(A)	70	61.9	IS 9989:1981 (RA 2014)
Location & Date : NEAR SCRAP YARD (M.S. BILLET SECTION), DT- 25.12.2024 To 26.12.2024				
Noise Level Indl. Area (Night)	dB(A)	70	60.2	IS 9989:1981 (RA 2014)
Location & Date : NEAR WEIGH BRIDGE (M.S. BILLET SECTION), DT- 25.12.2024 To 26.12.2024				
Noise Level Indl. Area (Night)	dB(A)	70	66.6	IS 9989:1981 (RA 2014)

Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

D. Arukha

Mr. Digamber Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Rekha Nayak
Dr. Rekha Nayak
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10021590B

Page 1 of 1

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TEST REPORT

TC-12063

NABL ULR NO : TC120632500008407B

Test Report No : KLPL/12/24/ENVN/00439B

Issue Date : 06-Jan, 2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : M/s Balmukund Sponge & Iron (Pvt.) Ltd. (MEGA DIV.)

Address : At.- Chatro-Tundi Road. Dist.-Giridih, Jharkhand

Date of receipt : 30-Dec, 2024 Commenced On : 30-Dec, 2024 Completion On : 02-Jan, 2025

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure : KLPL/SOP/AIR-20 & KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Stack-01 (IRON ORE BENEFICATION UNIT), DATE:25.12.2024				
Particulate Matter	mg/Nm ³	150	89	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	-	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg C	--	78	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	6.54	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO ₂	mg/Nm ³	--	-	IS 11255(part-2):1985,RA:2019
*Weather condition	--	--	CLEAR	--
*Height of stack from ground level	In Meter	--	30	--
*Inner dimension of stack	In Meter	--	0.6	--
*Height of port hole	In Meter	--	12	--
Atmospheric temperature	Deg C	--	22	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm ³ / hr	--	5653	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.503	IS 11255(Part-1):1985,RA:2019
*Name of fuel & quantity used per shift	--	--	PROCESS STACK	--
*Production capacity	--	--	74,000 TPA (IRON ORE)	--
*Stack attached to	--	--	IOB UNIT	--

Remarks : Stack Temperature & Velocity (Not in NABL Scope of Testing)

Any unusual feature observed during determination :NIL

Requirement Is As Per Standard Specification CTO

* Additional information incorporated in the test report as per the requirement and data provided by the customer.

Analysed By

Mr. Digamber Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Rekha Nayak 8/10/2025
For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 10021591B

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TEST REPORT

NABL ULR NO : TC1206325000008394

Test Report No : KLPL/12/24/WATER/02154

Issue Date : 06-Jan, 2025

Reference : -

Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)

Address : At.: CHATRO - TUNDI ROAD, GIRIDIH, JHARKHAND

Date of receipt : 30-Dec, 2024 Test Commenced On: 30-Dec, 2024 Test Completion On: 02-Jan, 2025

Sample Description : WASTE WATER

Sample Condition : HDPE PLASTIC BOTTLE

Sample Identification : DOMESTIC EFFLUENT WATER

Sampling Date: 29-Dec, 2024

Batch No, Lot No : NA

MFG Date : NA

EXP Date : NA

Received Quantity : 1LTR X 1 NO

Place of Collection : OUTLET OF OFFICE BUILDING

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref. To Sampling Procedure: KLPL/QSP-07

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Oil & Grease	mg/l	-	<1.0	APHA 24th Edition (2550B), 2023
ii Total Dissolved Solid	mg/l	-	228	APHA 24th Edition (2540 C), 2023
iii Chemical Oxygen Demand	mg/l	-	33	APHA 24th Edition (5220 B), 2023
iv Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l	-	12	APHA 24th Edition (5210 B), 2023
v Total Suspended Solids	mg/l	-	24	APHA 24th Edition (2540 D), 2023
PHYSICAL PARAMETER				
i Color	True col. Unit	-	<1.0	APHA 23 rd Edition (2120 B), 2017
ii pH Value	---	-	7.25	APHA 23 rd Edition (4500-H+-B), 2017

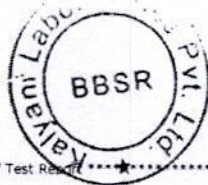
Remarks : NIL

Any unusual feature observed during determination : NIL

Analysed By

D. Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd



Authorized Signatory

Rekha Nayak
Dr. Rekha Nayak
For Kalyani Laboratories Pvt. Ltd

End of Test Report

KALYANI LABORATORIES PVT.LT

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TEST REPORT

TC-12063

NABL ULR NO : TC1206325000008405

Test Report No : KLPL/12/24/ENVN/00437

Issue Date : 06-Jan-2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)

Address : (INDUCTION FURNACE UNIT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND

Date of receipt : 30-Dec, 2024 Commenced On: 30-Dec, 2024 Completion On: 30-Dec, 2024

Sample Name : NOISE (DAY TIME)

Sample Condition : -

Sample collected by : MR. SUDHIR KUMAR BARIK

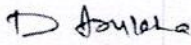
Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR METAL CONVEYER, DT- 27.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	69.4	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (INDUCTION FURNACE DIV.), DT- 27.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	65.1	IS 9989:1981 (RA 2014)
Location & Date : NORTHERN SIDE OF INDUCTION FURNACE SHED, DT- 27.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	62.9	IS 9989:1981 (RA 2014)
Location & Date : BESIDE CONTROL ROOM, DT- 27.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	66.5	IS 9989:1981 (RA 2014)

Remarks : NIL

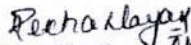
Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By


Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory


Dr. Rekha Nayak 8/10/2025
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10021589B

Page 1 of 1

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TEST REPORT

TC-12063

NABL ULR NO : TC1206325000008405

Test Report No : KLPL/12/24/ENVN/00437

Issue Date : 06-Jan-2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : BALMUKUND SPONGE & IRON PVT LTD

Address : AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND

Date of receipt : 30-Dec, 2024 Commenced On: 30-Dec, 2024 Completion On: 30-Dec, 2024

Sample Name : NOISE (NIGHT TIME)

Sample Condition : -

Sample collected by : MR. SUDHIR KUMAR BARIK

Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR METAL CONVEYER, DT- 27.12.2024 & 28.12.2024				
Noise Level Indl. Area (Night)	dB(A)	70	66.5	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (INDUCTION FURNACE DIV.), DT- 27.12.2024 & 28.12.2024				
Noise Level Indl. Area (Night)	dB(A)	70	63.7	IS 9989:1981 (RA 2014)
Location & Date : NORTHERN SIDE OF INDUCTION FURNACE SHED, DT- 27.12.2024 & 28.12.2024				
Noise Level Indl. Area (Night)	dB	70	61.4	IS 9989:1981 (RA 2014)
Location & Date : BESIDE CONTROL ROOM, DT- 27.12.2024 & 28.12.2024				
Noise Level Indl. Area (Night)	dB	70	65.8	IS 9989:1981 (RA 2014)

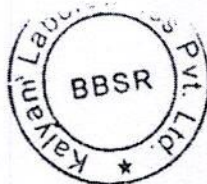
Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

D. Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Rekha Nayak

Dr. Rekha Nayak
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10021590B

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PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT

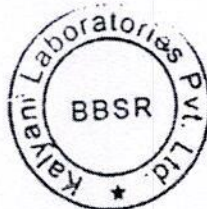
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Amendment No	: -	Amendment Date	: -
Reference	: -		
Customer Name	: BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)		
Address	: (ROLLING UNIT) At.: CHATRO-TUNDI ROAD, GIRIDIH, JHARKHAND		
Date of receipt	: 30-Dec-2024	Commenced On:	30-Dec-2024
		Completion On:	01-Jan-2025
Sample Name	: AIR QUALITY MONITORING (FUGITIVE DUST)		
Sample Condition	: FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG		
Sample Collected By	: MR. SUDHIR KUMAR BARIK		
Ref.To Sampling Procedure:	: KLPL/QSP-07		
Parameters	Unit	Standard Value	Results
Test Method			
Location & Date	: NEAR FINISHED PRODUCT YARD, DT- 28.12.2024		
Fugitive Dust	µG/M³	3000	1639
Test Method			KLPL/SOP/AIR-11:2012
Location & Date	: NEAR RAW MATERIAL YARD (ROLLING DIV.), DT- 28.12.2024		
Fugitive Dust	µG/M³	3000	1744
Test Method			KLPL/SOP/AIR-11:2012
Location & Date	: EASTERN SIDE OF ROLLING MILL UNIT, DT- 28.12.2024		
Fugitive Dust	µG/M³	3000	1626
Test Method			KLPL/SOP/AIR-11:2012
Location & Date	: SOUTHERN SIDE OF LABOUR REST ROOM, DT- 28.12.2024		
Fugitive Dust	µG/M³	3000	1589
Test Method			KLPL/SOP/AIR-11:2012

Remarks : Standard Specification as per G.S.R. 277(E), MOEF & CC, 31st March 2012

Any unusual feature observed during determination : NIL

Analysed By

D Arukha
Mr. Digamber Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Rekha Nayak
Dr. Rekha Nayak
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10021582B

KALYANI LABORATORIES PVT.LTD

Kalyani Laboratories

PLOT NO-78/944, MILLENNIUM CITY PAHAL, BHUBANESWAR-752101, OD

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TEST REPORT

TC-12063

NABL ULR NO : TC1206325000008405B

Test Report No : KLPL/12/24/ENVN/00437B

Issue Date : 06-Jan-2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)

Address : (ROLLING MILL UNIT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND

Date of receipt : 30-Dec, 2024 Commenced On: 30-Dec, 2024 Completion On: 30-Dec, 2024

Sample Name : NOISE (DAY TIME)

Sample Condition : -

Sample collected by : MR. SUDHIR KUMAR BARIK

Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR FINISHED PRODUCT YARD, DT- DT- 27.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	65.7	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (ROLLING DIV.), DT- 27.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	63.5	IS 9989:1981 (RA 2014)
Location & Date : EASTERN SIDE OF ROLLING MILL UNIT, DT- 27.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	65.9	IS 9989:1981 (RA 2014)
Location & Date : SOUTHERN SIDE OF LABOUR REST ROOM, DT- 27.12.2024				
Noise Level Indl. Area (Day)	dB(A)	75	62.0	IS 9989:1981 (RA 2014)

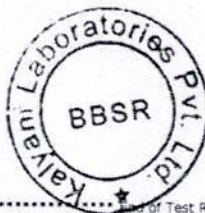
Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Rekha Nayak
Dr. Rekha Nayak 8/10/2025
For Kalyani Laboratories Pvt. Ltd.

KLPL- 10021583B

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PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

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Kalyani Laboratories

TEST REPORT

TC-12063

NABL ULR NO : TC120632500008405B

Test Report No : KLPL/12/24/ENVN/00437B

Issue Date : 06-Jan-2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)

Address : (ROLLING MILL UNIT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND

Date of receipt : 30-Dec, 2024 Commenced On: 30-Dec, 2024 Completion On: 30-Dec, 2024

Sample Name : NOISE (NIGHT TIME)

Sample Condition : -

Sample collected by : MR. SUDHIR KUMAR BARIK

Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

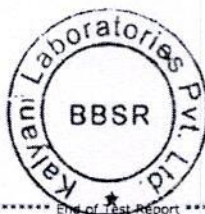
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR FINISHED PRODUCT YARD, DT- 27.12.2024 & 28.12.2024				
Noise Level Indl. Area (Night)	dB(A)	70	63.7	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (ROLLING DIV.), DT- 27.12.2024 & 28.12.2024				
Noise Level Indl. Area (Night)	dB(A)	70	62.4	IS 9989:1981 (RA 2014)
Location & Date : EASTERN SIDE OF ROLLING MILL UNIT, DT- 27.12.2024 & 28.12.2024				
Noise Level Indl. Area (Night)	dB(A)	70	65.2	IS 9989:1981 (RA 2014)
Location & Date : SOUTHERN SIDE OF LABOUR REST ROOM, DT- 27.12.2024 & 28.12.2024				
Noise Level Indl. Area (Night)	dB(A)	70	61.5	IS 9989:1981 (RA 2014)

Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

D Arukha
Mr. Digamber Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Rekha Nayak
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10021584B

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TEST REPORT

TC-12063

NABL ULR NO : TC1206325000008406A

Test Report No : KLPL/12/24/ENVN/00438A

Issue Date : 06-Jan, 2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : M/s Balmukund Sponge & Iron (Pvt.) Ltd. (MEGA DIV.)

Address : At - Chatro -Tundi Road, Dist.- Giridih, Jharkhand.

Date of receipt : 30-Dec, 2024 Commenced On : 30-Dec, 2024

Completion On: 03-Jan, 2025

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure : KLPL/SOP/AIR-20 & KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Induction Furnace Stack- 01, DATE: 27.12.2024				
Particulate Matter	mg/Nm ³	150	81	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	29	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg C	--	98	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	7.01	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO ₂	mg/Nm ³	--	18	IS 11255(part-2):1985,RA:2019
*Weather condition	--	--	PARTLY CLOUDY	--
*Height of stack from ground level	In Meter	--	30	--
*Inner dimension of stack	In Meter	--	0.6	--
*Height of port hole	In Meter	--	09	--
Atmospheric temperature	Deg C	--	24	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm ³ / hr	--	5,766	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.467	IS 11255(Part-1):1985,RA:2019
*Name of fuel & quantity used per shift	--	--	Electricity (Electric Furnace)	--
*Production capacity	--	--	3 x 15 MT Furnace	--
*Stack attached to	--	--	Fume Extraction System	--

Remarks : Stack Temperature & Velocity (Not in NABL Scope of Testing)

Any unusual feature observed during determination : NIL

Requirement Is As Per Standard Specification CTO

* Additional information incorporated in the test report as per the requirement and data provided by the customer.

Analysed By

Arupla

Mr. Digamber Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Rekha Nayak
Dr. Rekha Nayak 8/10/2025
For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 10021586B

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TEST REPORT

TC-12063

NABL ULR NO : TC1206325000008406B

Test Report No : KLPL/12/24/ENVN/00438B

Issue Date : 06-Jan, 2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : M/s Balmukund Sponge & Iron (Pvt.) Ltd. (MEGA DIV.)

Address : At - Chatro -Tundi Road, Dist.- Giridih, Jharkhand.

Date of receipt : 30-Dec, 2024

Commenced On : 30-Dec, 2024

Completion On: 03-Jan, 2025

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure : KLPL/SOP/AIR-20 & KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Induction Furnace Stack- 02, DATE:27.12.2024				
Particulate Matter	mg/Nm ³	150	76	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	24	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg C	--	92	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	6.46	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO ₂	mg/Nm ³	--	15	IS 11255(part-2):1985,RA:2019
*Weather condition	--	--	PARTLY CLOUDY	--
*Height of stack from ground level	In Meter	--	30	--
*Inner dimension of stack	In Meter	--	0.6	--
*Height of port hole	In Meter	--	09	--
Atmospheric temperature	Deg C	--	24	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm ³ / hr	--	5,371	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.408	IS 11255(Part-1):1985,RA:2019
*Name of fuel & quantity used per shift	--	--	Electricity (Electric Furnace)	--
*Production capacity	--	--	1 x 15 MT Furnace	--
*Stack attached to	--	--	Fume Extraction System	--

Remarks : Stack Temperature & Velocity (Not in NABL Scope of Testing)

Any unusual feature observed during determination :NIL

Requirement Is As Per Standard Specification CTO

* Additional information incorporated in the test report as per the requirement and data provided by the customer.

Analysed By

D. Arukha

Mr. Digamber Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Rekha Nayak
Dr. Rekha Nayak 6/10/2025
For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 10021587B



TEST REPORT

NABL ULR NO : TC1206324000006396

Test Report No : KLPL/2/25/ENVN/00212

Issue Date : 19-Feb- 2025

Reference :

Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)

Address : (MEGA DIV, CCM & IRON ORE BENEFICIATION PLANT), AT- CHATRO-TUNDI ROAD, GIRIDIH, JHARKHAND.

Date of receipt : 14-Feb- 2025

Commenced On: 14-Feb- 2025

Completion On: 18-Feb- 2025

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure: KLPL/QSP-07 & KLPL/QSP/AIR-2019

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR LABOUR QUARTER DT- 11.02.2025 TO 12.02.2025				
Sulphur Dioxide	µg/m ³	80	15.80	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	27.50	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	77.00	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	45.00	KLPL/SOP/AIR-02 , ISSUE NO.1: 2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.46	KLPL/SOP/AIR-19 : 2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	32.00	KLPL/SOP/AIR-13 , ISSUE NO.1: 2019
Lead (Pb)	µg/m ³	1.0	<0.01	KLPL/SOP/AIR-10 , ISSUE NO.1: 2017
Ammonia (NH3)	µg/m ³	400	18.00	KLPL/SOP/AIR-05 , ISSUE NO.1: 2017
Nickel (Ni)	ng/m ³	20	3.90	KLPL/SOP/AIR-10 , ISSUE NO.1: 2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.01	KLPL/SOP/AIR-07, Issue No.01: 2019
Arsenic (As)	ng/m ³	06	<0.01	KLPL/SOP/AIR-10 , ISSUE NO.1: 2017

Location & Date : NEAR LABOUR REST ROOM BUILDING DT- 11.02.2025 TO 12.02.2025				
Sulphur Dioxide	µg/m ³	80	17.50	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	32.00	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	81.00	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	47.00	KLPL/SOP/AIR-02 , ISSUE NO.1: 2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.56	KLPL/SOP/AIR-19 : 2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	34.00	KLPL/SOP/AIR-13 , ISSUE NO.1: 2019
Lead (Pb)	µg/m ³	1.0	<0.01	KLPL/SOP/AIR-10 , ISSUE NO.1: 2017
Ammonia (NH3)	µg/m ³	400	20.00	KLPL/SOP/AIR-05 , ISSUE NO.1: 2017
Nickel (Ni)	ng/m ³	20	4.40	KLPL/SOP/AIR-10 , ISSUE NO.1: 2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.01	KLPL/SOP/AIR-07, Issue No.01: 2019
Arsenic (As)	ng/m ³	06	<0.01	KLPL/SOP/AIR-10 , ISSUE NO.1: 2017

Location & Date : NEAR NORTHERN BOUNDARY DT- 12.02.2025 TO 13.02.2025				
Sulphur Dioxide	µg/m ³	80	18.20	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	34.00	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	82.00	IS 5182(PART-23) : 2006
Particulate Matter (PM2.5)	µg/m ³	60	49.00	KLPL/SOP/AIR-02 , ISSUE NO.1: 2017



KLPL- 10020621B



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TEST REPORT

TC-12063

NABL ULR NO : TC1206324000006396

Test Report No : KLPL/2/25/ENVN/00212

Issue Date : 19-Feb- 2025

Reference : -

Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)

Address : (MEGA DIV, CCM & IRON ORE BENEFICIATION PLANT), AT- CHATRO-TUNDI ROAD, GIRIDIH, JHARKHAND.

Date of receipt : 14-Feb- 2025

Commenced On: 14-Feb- 2025

Completion On: 18-Feb- 2025

Sample Name : AMBIENT AIR QUALITY MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure: KLPL/QSP-07 & KLPL/QSP/AIR-2019

Parameters	Unit	Standard Value	Results	Test Method
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.58	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	36.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m ³	1.0	<0.01	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	24.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	20	4.60	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.01	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m ³	06	<0.01	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Location & Date : NEAR SOUTHERN BOUNDARY DT- 12.02.2025 TO 13.02.2025

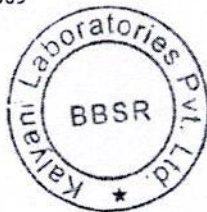
Sulphur Dioxide	µg/m ³	80	20.00	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	36.00	IS 5182 (PART 6) : 2006
Particulate Matter (PM10)	µg/m ³	100	88.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	52.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.62	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	36.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m ³	1.0	<0.01	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	26.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	20	4.80	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.01	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m ³	06	<0.01	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Remarks : --

Any unusual feature observed during determination : NIL
Requirement is as per standard specification NAAQS:2009

Analysed By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 10020620B

Page 2 of 2



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TEST REPORT

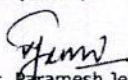
Test Report No	: KLPL/2/25/ENVN/00212	Issue Date	: 19-Feb- 2025
Amendment No	: -	Amendment Date	: -
Reference	: -		
Customer Name	: BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)		
Address	: (MEGA DIV, CCM & IRON ORE BENEFICIATION PLANT), AT- CHATRO-TUNDI ROAD, GIRIDIH, JHARKHAND.		
Date of receipt	: 14-Feb- 2025	Commenced On:	14-Feb- 2025
		Completion On:	18-Feb- 2025
Sample Name	: AMBIENT AIR QUALITY MONITORING		
Sample Condition	: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG		
Sample Collected By	: MR. SUDHIR KUMAR BARIK		
Ref.To Sampling Procedure	: KLPL/QSP-07 & KLPL/QSP/AIR-2019		
Parameters	Unit	Standard Value	Results
Location & Date	: NEAR LABOUR QUARTER DT- 11.02.2025 TO 12.02.2025		
Benzene (C6 H6)	µg/m³	05	<0.01
			KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date	: NEAR LABOUR REST ROOM BUILDING DT- 11.02.2025 TO 12.02.2025		
Benzene (C6 H6)	µg/m³	05	<0.01
			KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date	: NEAR NORTHERN BOUNDARY DT- 12.02.2025 TO 13.02.2025		
Benzene (C6 H6)	µg/m³	05	<0.01
			KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date	: NEAR SOUTHERN BOUNDARY DT- 12.02.2025 TO 13.02.2025		
Benzene (C6 H6)	µg/m³	05	<0.01
			KLPL/SOP/AIR-07, Issue No.01: 2019

Remarks : --

Requirement is as per standard specification NAAQS:2009

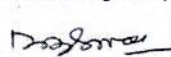
Any unusual feature observed during determination : NIL

Analysed By


Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory


Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



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TEST REPORT

NABL ULR NO : TC1206324000006151

Test Report No : KLPL/2/25/WATER/01073

Issue Date : 19-Feb-2025

Reference :

Customer Name :

BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)

Address :

(MEGA DIV, CCM & IRON ORE BENEFICIATION PLANT), AT- CHATRO-TUNDI ROAD, GIRIDIH, JHARKHAND.

Date of receipt :

14-Feb-2025

Test Commenced On: 14-Feb-2025

Test Completion On: 18-Feb-2025

Sample Description :

WASTE WATER

Sample Condition :

HDPE PLASTIC BOTTLE

Sample Identification :

DOMESTIC EFFLUENT WATER

Sampling Date: 07-Mar, 2025

Batch No , Lot No :

NA

MFG Date: NA

EXP Date: NA

Received Quantity :

1LTR X 1 NO

Place of Collection: OUTLET OF OFFICE BUILDING

Sample Collected By :

MR. SUDHIR KUMAR BARIK

Ref. To Sampling Procedure:

KLPL/QSP-07

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Oil & Grease	mg/l	-	<1.0	APHA 24th Edition (2550B), 2023
ii Total Dissolved Solid	mg/l	-	246	APHA 24th Edition (2540 C), 2023
iii Chemical Oxygen Demand	mg/l	-	35	APHA 24th Edition (5220 B), 2023
iv Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l	-	15	APHA 24th Edition (5210 B), 2023
v Total Suspended Solids	mg/l	-	28	APHA 24th Edition (2540 D), 2023
PHYSICAL PARAMETER				
i Color	True col. Unit	-	<1.0	APHA 23 rd Edition (2120 B), 2017
ii pH Value	---	-	7.6	APHA 23 rd Edition (4500-H+-B), 2017

Remarks : NIL

Any unusual feature observed during determination : NIL

Analysed By

L. Senapati

Miss. Liza Senapati
For Kalyani Laboratories Pvt. Ltd

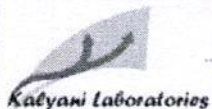


Authorized Signatory

Dr. Debasis Biswal

Dr Debasis Biswal
For Kalyani Laboratories Pvt. Ltd

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



KALYANI LABORATORIES PVT.LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA



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TEST REPORT

Test Report No	: KLPL/2/25/ENVN/00212A	Issue Date	: 19-Feb-2025	
Amendment No	: -	Amendment Date	: -	
Reference	: -			
Customer Name	: BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)			
Address	: (MEGA DIVISION, CCM & IRON ORE BENEFICIATION PLANT, CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND			
Date of receipt	: 14-Feb-2025	Commenced On:	14-Feb-2025	
		Completion On:	18-Feb-2025	
Sample Name	: AIR QUALITY MONITORING (FUGITIVE DUST)			
Sample Condition	: FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG			
Sample Collected By	: MR. SUDHIR KUMAR BARIK			
Ref.To Sampling Procedure:	KLPL/QSP-07			
Parameters	Unit	Standard Value	Results	Test Method
Location & Date	: NEAR HOPPER (IRON ORE BENEFICIATION UNIT) DT- 11.02.2025			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1826	KLPL/SOP/AIR-11:2012
Location & Date	: NEAR RAW MATERIAL STORAGE YARD (IRON ORE BENEFICIATION UNIT) DT- 11.02.2025			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1654	KLPL/SOP/AIR-11:2012
Location & Date	: NEAR SCRAP YARD (M.S.BILLET SECTION) DT- 12.02.2025			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1533	KLPL/SOP/AIR-11:2012
Location & Date	: NEAR WEIGH BRIDGE (M. S. BILLET SECTION) DT- 12.02.2025			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1844	KLPL/SOP/AIR-11:2012

Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification NAAQS:2009

Analysed By

L. Senapati

Miss. Liza Senapati
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10020616B

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PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA



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TEST REPORT

TC-12063

NABL ULR NO : TC1206324000006397

Test Report No : KLPL/2/25/ENVN/00213

Issue Date : 19-Feb-2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)

Address : (MEGA DIVISION, CCM & IRON ORE BENEFICIATION PLANT, CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND

Date of receipt : 14-Feb-2025 Commenced On: 14-Feb-2025 Completion On: 18-Feb-2025

Sample Name : NOISE (DAY TIME)

Sample Condition : -

Sample collected by : MR. SUDHIR KUMAR BARIK

Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR HOPPER (IRON ORE BENEFICIATION UNIT), DATE- 11.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	68.7	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (IRON ORE BENEFICIATION UNIT), DATE- 11.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	65.3	IS 9989:1981 (RA 2014)
Location & Date : NEAR SCRAP YARD (M.S. BILLET SECTION), DATE- 12.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	63.5	IS 9989:1981 (RA 2014)
Location & Date : NEAR WEIGH BRIDGE (M.S. BILLET SECTION), DATE- 12.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	67.9	IS 9989:1981 (RA 2014)

Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10020615B

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TEST REPORT

TC-12063

NABL ULR NO : TC1206324000006397

Test Report No : KLPL/2/25/ENVN/00213

Issue Date : 19-Feb-2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)

Address : (MEGA DIVISION, CCM & IRON ORE BENEFICIATION PLANT, CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND

Date of receipt : 14-Feb-2025 Commenced On: 14-Feb-2025 Completion On: 18-Feb-2025

Sample Name : NOISE (NIGHT TIME)

Sample Condition : -

Sample collected by : MR. SUDHIR KUMAR BARIK

Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR HOPPER (IRON ORE BENEFICIATION UNIT), DATE-11.02.2025				
Noise Level Indl. Area (Night)	dB(A)	70	67.5	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (IRON ORE BENEFICIATION UNIT), DATE-11.02.2025				
Noise Level Indl. Area (Night)	dB(A)	70	62.7	IS 9989:1981 (RA 2014)
Location & Date : NEAR SCRAP YARD (M.S. BILLET SECTION), DATE-12.02.2025				
Noise Level Indl. Area (Night)	dB(A)	70	60.2	IS 9989:1981 (RA 2014)
Location & Date : NEAR WEIGH BRIDGE (M.S. BILLET SECTION), DATE-12.02.2025				
Noise Level Indl. Area (Night)	dB(A)	70	66.5	IS 9989:1981 (RA 2014)

Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



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TEST REPORT

TC-12063

NABL ULR NO : TC1206324000006398

Test Report No : KLPL/2/25/ENVN/00214

Issue Date : 19-Feb-2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)

Address : (MEGA DIVISION, CCM & IRON ORE BENEFICIATION PLANT, CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND)

Date of receipt : 14-Feb-2025

Commenced On: 14-Feb-2025

Completion On: 18-Feb-2025

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Sample Collected By : MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure : KLPL/SOP/AIR-20 & KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Stack-01 (IRON ORE BENEFICIATION UNIT), DATE: 11.02.2025				
Particulate Matter	mg/Nm ³	150	86	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	-	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg C	--	76	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	6.52	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO ₂	mg/Nm ³	--	-	IS 11255(part-2):1985,RA:2019
*Weather condition	--	--	CLEAR	--
*Height of stack from ground level	In Meter	--	30	--
*Inner dimension of stack	In Meter	--	0.6	--
*Height of port hole	In Meter	--	12	--
Atmospheric temperature	Deg C	--	31	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm ³ / hr	--	5,668	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.487	IS 11255(Part-1):1985,RA:2019
*Name of fuel & quantity used per shift	--	--	PROCESS STACK	--
*Production capacity	--	--	74,000 TPA (IRON ORE)	--
*Stack attached to	--	--	IOB UNIT	--

Remarks : --

Any unusual feature observed during determination

:NIL

Requirement Is As Per Standard Specification CTO

* Additional information incorporated in the test report as per the requirement and data provided by the customer.

Analysed By

L. Senapati

Miss. Liza Senapati
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10020613B

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TEST REPORT

TC-12063

NABL ULR NO : TC1206324000006397

Issue Date : 25-Feb-2025

Test Report No : KLPL/2/25/ENVN/00453

Amendment Date : -

Amendment No : -

Reference : -

Customer Name

: M/S BALMUKUNDA SPONG & IRON (P) Ltd (Mega division- induction Furnace)

Address

: At- Majhiladih, gadisirampur, ps. Giridihi(M), Dist-Giridih, Jharkhand

Date of receipt

: 21-Feb-2025

Commenced On: 21-Feb-2025

Completion On: 24-Feb-2025

Sample Name

: FLUE GAS | STACK MONITORING

Sample Condition

: GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Sample Collected By

: MR. SUDHIR KUMAR BARIK

Ref.To Sampling Procedure

: KLPL/SOP/AIR-20 & KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Stack- 1 (Induction Furnace Stack), DATE: 18.02.2025				
Particulate Matter	mg/Nm ³	100	86	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	21	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg C	--	112	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	6.63	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO ₂	mg/Nm ³	--	26	IS 11255(part-2):1985,RA:2019
*Weather condition	--	--	CLEAR	--
*Height of stack from ground level	In Meter	--	30	--
*Inner dimension of stack	In Meter	--	0.60	--
*Height of port hole	In Meter	--	30	--
Atmospheric temperature	Deg C	--	38	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm ³ / hr	--	5225	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.449	IS 11255(Part-1):1985,RA:2019
*Name of fuel & quantity used per shift	--	--	Burning of raw Material / Scarp	--
*Production capacity	--	--	3 x 15MT Furnace	--
*Stack attached to	--	--	Fume Extraction System	--

Remarks

: --

Any unusual feature observed during determination

:NIL

Requirement Is As Per Standard Specification CTO

* Additional information incorporated in the test report as per the requirement and data provided by the customer.

Analysed By

L. Senapati

Miss. Liza Senapati
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal

For Kalyani Laboratories Pvt. Ltd.

End of Test Report



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NABL ULR NO : TC1206324000006397

TEST REPORT

TC-12063

Test Report No : KLPL/2/25/ENVN/00453A **Issue Date** : 25-Feb-2025
Amendment No : - **Amendment Date** : -
Reference : -
Customer Name : M/S BALMUKUNDA SPONG & IRON (P) Ltd (Mega division- induction Furnace)
Address : At- Majhiladih, gadisirampur, ps. Giridihi(M), Dist-Giridih, Jharkhand
Date of receipt : 21-Feb-2025 **Commenced On** : 21-Feb-2025 **Completion On** : 24-Feb-2025
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/SOP/AIR-20 & KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : Stack- 2 (Induction Furnace Stack), DATE: 18.02.2025				
Particulate Matter	mg/Nm ³	100	82	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	18	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg C	--	110	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	6.61	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO ₂	mg/Nm ³	--	24	IS 11255(part-2):1985,RA:2019
*Weather condition	--	--	CLEAR	--
*Height of stack from ground level	In Meter	--	30	--
*Inner dimension of stack	In Meter	--	0.60	--
*Height of port hole	In Meter	--	09	--
Atmospheric temperature	Deg C	--	34	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm ³ / hr	--	5236	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.429	IS 11255(Part-1):1985,RA:2019
*Name of fuel & quantity used per shift	--	--	Burning of raw Material / Scarp	--
*Production capacity	--	--	1 x 15MT Furnace	--
*Stack attached to	--	--	Fume Extraction System	--

Remarks

: --

Any unusual feature observed during determination :NIL

Requirement Is As Per Standard Specification CTO

* Additional information incorporated in the test report as per the requirement and data provided by the customer.

Analysed By

L. Senapati
 Miss. Liza Senapati
 For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.

End of Test Report



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TEST REPORT

TC-12063

NABL ULR NO : TC1206324000006400
Test Report No : KLPL/2/25/ENVN/00216 **Issue Date** : 25-Feb- 2025
Amendment No : - **Amendment Date** : -
Reference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION)
Address : AT-CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 21-Feb- 2025 **Commenced On:** 21-Feb- 2025 **Completion On:** 24-Feb- 2025
Sample Name : NOISE (DAY TIME)
Sample Condition : -
Sample collected by : MR. SUDHIR KUMAR BARIK
Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

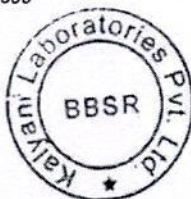
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR METAL CONVEYER, DT- 17.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	68.5	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (INDUCTION FURNACE DIV.), DT- 17.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	63.2	IS 9989:1981 (RA 2014)
Location & Date : NORTHERN SIDE OF INDUCTION FURNACE SHED, DT- 18.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	62.4	IS 9989:1981 (RA 2014)
Location & Date : BESIDE CONTROL ROOM, DT- 18.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	67.0	IS 9989:1981 (RA 2014)

Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



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TC-12063

TEST REPORT

NABL ULR NO : TC1206324000006400
Test Report No : KLPL/2/25/ENVN/00216 **Issue Date** : 25-Feb-2025
Amendment No : - **Amendment Date** : -
Reference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION)
Address : AT-CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 21-Feb-2025 **Commenced On** : 21-Feb-2025 **Completion On** : 24-Feb-2025

Sample Name : NOISE (NIGHT TIME)
Sample Condition : -
Sample collected by : MR. SUDHIR KUMAR BARIK
Ref. To Sampling Procedure : KLPL/NOISE/SOP-23

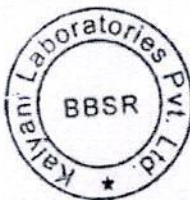
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR METAL CONVEYER, DT- 17.02.2025				
Noise Level Indl. Area (Night)	dB(A)	70	66.9	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (INDUCTION FURNACE DIV.), DT- 17.02.2025				
Noise Level Indl. Area (Night)	dB(A)	70	64.6	IS 9989:1981 (RA 2014)
Location & Date : NORTHERN SIDE OF INDUCTION FURNACE SHED, DT- 18.02.2025				
Noise Level Indl. Area (Night)	dB(A)	70	61.0	IS 9989:1981 (RA 2014)
Location & Date : BESIDE CONTROL ROOM, DT- 18.02.2025				
Noise Level Indl. Area (Night)	dB(A)	70	65.5	IS 9989:1981 (RA 2014)

Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10020608B

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TEST REPORT

NABL ULR NO : TC1206324000006400

Test Report No : KLPL/2/25/ENVN/00216C

Issue Date : 25-Feb-2025

Amendment No : -

Amendment Date : -

Reference : -

Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION)

Address : AT-CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND

Date of receipt : 21-Feb-2025 Commenced On: 21-Feb-2025 Completion On: 24-Feb-2025

Sample Name : NOISE (DAY TIME)

Sample Condition : -

Sample collected by : MR. SUDHIR KUMAR BARIK

Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR FINISHED PRODUCT YARD, DT- 17.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	66.4	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (ROLLING DIV.), DT- 17.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	63.1	IS 9989:1981 (RA 2014)
Location & Date : EASTERN SIDE OF ROLLING MILL UNIT, DT- 18.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	65.5	IS 9989:1981 (RA 2014)
Location & Date : SOUTHERN SIDE OF LABOUR REST ROOM, DT- 18.02.2025				
Noise Level Indl. Area (Day)	dB(A)	75	63.7	IS 9989:1981 (RA 2014)

Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 10020605B

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TC-12063

TEST REPORT

NABL ULR NO : TC1206324000006400
Test Report No : KLPL/2/25/ENVN/00216C **Issue Date** : 25-Feb- 2025
Amendment No : - **Amendment Date** : -
Reference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION)
Address : AT-CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 21-Feb- 2025 **Commenced On** : 21-Feb- 2025 **Completion On** : 24-Feb- 2025
Sample Name : NOISE (NIGHT TIME)
Sample Condition : -
Sample collected by : MR. SUDHIR KUMAR BARIK
Ref. To Sampling Procedure : KLPL/NOISE/SOP-23

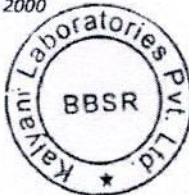
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR FINISHED PRODUCT YARD, DT- 17.02.2025				
Noise Level Indl. Area (Night)	dB	70	63.2	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (ROLLING DIV.), DT- 17.02.2025				
Noise Level Indl. Area (Night)	dB	70	61.8	IS 9989:1981 (RA 2014)
Location & Date : EASTERN SIDE OF ROLLING MILL UNIT, DT- 18.02.2025				
Noise Level Indl. Area (Night)	dB	70	64.3	IS 9989:1981 (RA 2014)
Location & Date : SOUTHERN SIDE OF LABOUR REST ROOM, DT- 18.02.2025				
Noise Level Indl. Area (Night)	dB	70	61.52	IS 9989:1981 (RA 2014)

Remarks : NIL

Any unusual feature observed during determination : NIL
Requirement is As Per Standard Specification Noise Rule 2000

Analysed By

Mr. Paramesh Jena
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 10020604B

Page 1 of 1