

BALMUKUND

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

HEAD OFFICE : NEAR VISHWANATH NURSING HOME
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CIN : U27310WB1999PTC266185

<Dial 18002666868> <Wear Masks, Stay Safe>

EW461770051IN IVR:6987461770051

SPP MBC KOLKATA RMS <700001>

Counter No:3,30/11/2023,17:57

To:THE MEMBER SE,NEAR DHURWA BUS

PIN:834004, Dhurwa SO

From:BALMUKUND S,18, R.N: MUKHERJ

Wt:311gms

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29th November, 2023

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/2021-22/2167/2021/67
dated 15.07.2021. & No.EC/SEIAA/2013-14/297/2014/1525 dt.25.08.2015
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 for installation/modernization of existing Induction Furnaces from existing 4x7 MT/Heat to 4x15 MT/Heat, Installation of 2 (Two) Rolling Mill of capacity 371 TPD and 375 TPD and 2 (Two) Nos. of Induction Slag Grinders having crushing capacity of 47000 TPA segregating 3760 TPA of crushed Iron Metal & Letter No.EC/SEIAA/2013-14/297/2014/1525 dt.25.08.2015 which includes 1x15 MT/Heat Induction Furnace and Iron Ore Beneficiation Plant of 94000 TPA (Throughput). 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 1st six months of year 2023-24 (period from 01.04.2023 to 30.09.2023) :

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. b. Complied. c. Complied.

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Sl. No.	Conditions	Compliance
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 is not a mining land. No mining activity is undertaken on the said land.
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.



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Sl. No.	Conditions	Compliance
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 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).	There is no presence of schedule-I species in the study area. Site-Specific Conservation Plan & Wildlife Management Plan is not required in our case.
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 and CTO from Jharkhand State Pollution Control Board, Ranchi under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974. Copy of the said NOC/CTE & CTO have been submitted earlier alongwith our compliance report for 2 nd six month period ending on 31.03.2022.
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. CGWA/NOC/IND/REN/3/2022/7357 valid till 03.03.2025, a copy of the said NOC has been submitted along-with our 2 nd six months EC Compliance Report for the year 2022-23.
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 authorization under the Hazardous and other Waste Management Rules, 2016 from SPCB bearing No JSPCB/HO/RNC/HWM-1658531/2018/52 dated 09/10/2018 valid for 5 (five) years. Copy of HW Authorization Certificate has already been submitted earlier. Renewal application No. 15424532 for HW Authorization is submitted.
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 complying accordingly as directed including existing manufacturing units within prescribed time limit.

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Sl. No.	Conditions	Compliance
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.
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 and further stipulated condition, if any.

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. Copy of valid calibration certificates of stack emission monitoring equipment are enclosed.
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.



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Sl. No.	Conditions	Compliance
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 Nox 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 Ambient Air Quality monitoring system at our Mega Division premises to monitor PM, SO ₂ and NO _x emissions monitoring is also being done 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.
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 regular 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.

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Sl. No.	Conditions	Compliance
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 for carrying raw materials and cover them tightly with tarpaulin sheets.
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 for 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 in plant sheds. No tunnel, oil cellars exists in the plant.

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. 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	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, 2023 are enclosed.

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Sl. No.	Conditions	Compliance
	Environment (Protection) Act, 1986 and NABL accredited laboratories.	
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 SFCB along with six-monthly monitoring report.	There is no industrial effluent in our units under Mega Division. Copy of current ground water quality reports dt.03.06.2023 & 20.10.2023 (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.
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 are upgraded to arrest the run-off rain water in the event of heavy rains to prevent the water pollution due to surface run-off.
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 RWH/RTRWH have been submitted earlier.
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 tank followed by soak-pit is reused in greenbelt development & dust suppression.

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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 to 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.
ii.	Practice hot charging of slabs and billets/blooms as far as possible.	We 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.
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.
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.	We are recycling used refractories 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.

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Sl. No.	Conditions	Compliance
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 reused in mobilization of machineries. 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.

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 equal to 33% of the existing plant. No additional land has been taken into use for setting-up/modernization. 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 Equipments (PPEs) 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.

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Sl. No.	Conditions	Compliance
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 labors 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.

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 in CSR and CER activities keeping in view of the issues raised in public hearing and in compliance to 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.

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Sl. No.	Conditions	Compliance
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 1 st six months of FY:2023-24 is enclosed herewith.
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 2023-24, copy of the same is being submitted with this EC compliance report. Third party environmental audit shall be carried out in every three years.
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.



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

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CIN : U27310WB1999PTC266185

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Sl. No.	Conditions	Compliance
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.
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) or critical sectoral parameters, 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. It will also be 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, 2023 has been submitted to the State Pollution Control Board. It has also been uploaded on the website of the Company. Copy of the same has been submitted along-with our EC Compliance Report for the 02 nd half six month of FY 2022-23.
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.	Complied as reported to your goodself.



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Sl. No.	Conditions	Compliance
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 had been submitted marked as Annexure-2 along-with previous compliance report.
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 put up 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 implemented 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	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.

WORKS : AT- CHATRO. TUNDI ROAD, P.O.: GADISRIRAMPUR, GIRIDIH - 815 301, PH.: (06532) 244162, 244163, FAX : 244062

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

REGD. OFFICE: 18-R N MUKHERJEE ROAD, 1ST FLOOR, KOLKATA-700001 ; PH:40325000

All Disputes are Subject to Patna (Bihar) jurisdiction only

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CIN : U27310WB1999PTC266185

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Sl. No.	Conditions	Compliance
	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.	
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.

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.

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

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CIN : U27310WB1999PTC266185

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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 the directives.

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

Santosh Kumar

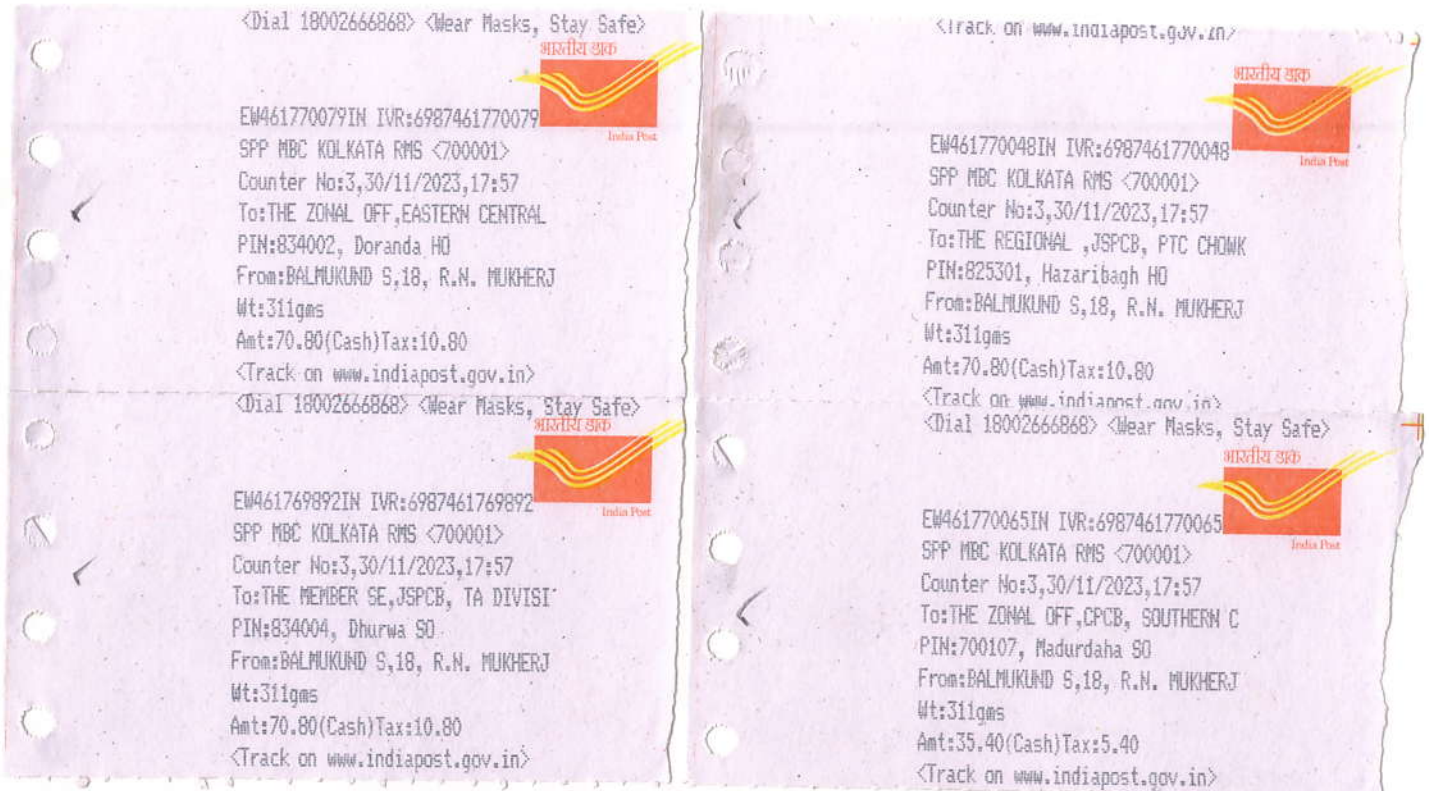
Authorized Signatory



Encl: As above.

- CC: The Zonal Officer, Ministry of Environment, Forests and Climate Change, Eastern Central Zone, Bungalow No. A-2, Mecon Colony, Shyamli, Ranchi-834 002
- CC: The Zonal Office, CPCB, Southern Conclave, Block 502, 5th and 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107
- CC: The Member Secretary, JSPCB, T.A. Division Bldg.(Ground Floor), HEC Complex, Ranchi(Jharkhand)-834004
- CC: The R.O., JSPCB, PTC Chowk, Hazaribagh (Jharkhand)-825301

-All for information.



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Annexure-I

Year	Recurring Expenditure for Environment Protection	Amount Rs. In Lakh
2023-24 (April-September)	Environmental Monitoring	2.21
	Running Cost of Pollution Control Equipments	11.66
	Greenbelt Development	6.48
	Total during the year :	18.35

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 is 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, 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.
3. Solid Waste/Hazardous Waste Management: Solid waste in form of induction slag is 100% 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 free of cost. End cutting and mis-roll of TMT Bar, Runner & Risers are reused/melted again in induction furnaces as raw material of M.S. Billet. We are recycling used refractories as far as possible. Oily scum and metallic sludge recovered from rolling mills cooling bed is dried, briquetted and reused in melting furnaces. Iron fines generated or recovered from Iron Ore Beneficiation Plant during washing of low grade iron ore, is again beneficiated in its hot process iron ore beneficiation plant. Domestic waste is composted and reused in development of greenbelt. Thus 100% solid waste is being disposed off. 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 within the premises.
4. Water Conservation/ Water Pollution : Rain water is being harvested 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. 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

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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' outside the factory premises. Rain Water Harvesting system including Roof Top Rain Water Harvesting system and ground water recharge system have been implemented.

5. Installation of Continuous Stack Monitoring System: We have installed Fume Extraction System with continuous online stack monitoring system for dust emission(PM) monitoring, SO₂ analyzer and PM(AAQ) with remote calibration facility with 24 x 7 days connectivity. Continuous data is transmitted to JSPCB and CPCB server during operational period. Manual stack emission monitoring is also being done by NABL laboratory namely M/s. Kalyani Laboratories Pvt. Ltd., Bhubaneswar. Test Reports for compliance period of the year 2023-24 (April-September) for stack emission monitoring are enclosed with the compliance report. Results are within the prescribed limit. Good Housekeeping has been is being maintained.
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 and maintaining proper record. Manual monitoring reports of 01st and 02nd quarters of fy:2023-24 are also 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 01.04.2023 to 30.09.2023

Ledger :

Date	CSR Work done	Amount incurred
	CSR Expenses incurred till 31.03.2023,detail submitted earlier(A)	2,40,37,546.36
07.04.2023	Amount paid to M.P. Verma Cricket Foundation for distribution of free bats and balls to students in surrounding villages to improve their interest in game for better health.	10,000.00
17.04.2023	Amount paid to M/s. Sharma Engineering Works Shop towards cost of one almirah, given to Mudrika Kumari D/o Kailash Turi and one Palang given to Khushbu Kumari D/o Munna Turi both resident of Chatro, Tundi Road, Giridih on their marriage ceremony as help being a social responsibility.	15,000.00
19.04.2023	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 being a social responsibility.	1,01,000.00
29.04.2023	Amount paid to Smt. Devanti Devi as assistance in the marriage ceremony of her daughter Saraswati Kumari being a social responsibility.	11,000.00
29.04.2023	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children at Giridih being a social responsibility.	75,000.00
02.05.2023	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.15206 dt.02.05.2023 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
02.05.2023	Amount paid to M/s. Sharma Engineering Works Shop towards cost of one almirah, given to Ita Kumari D/o Dilip Ray resident of Kalhamanjho, PO-Gadisrirampur, Giridih on her marriage ceremony as help being a social responsibility.	7,500.00
09.05.2023	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children at Giridih being a social responsibility.	3,41,000.00
11.05.2023	Amount paid to M/s. Computer Care being payment of their Invoice No.CC/23-24/0246 dt.11.05.2023 towards cost including installation of CCTV camera sets at SDO Office and SDO Court, Giridih as an assistance being a social responsibility.	1,09,212.48
12.05.2023	Amount paid to Shri Bageshwar Jan Seva for social activities in nearby village.	1,25,000.00
17.05.2023	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 being a social responsibility.	1,01,000.00
19.05.2023	Amount paid to M/s. Sharma Engineering Works Shop towards cost of one almirah, vide Inv.No.263 dt.19.05.2023 given to Pratima Kumari D/o Shyam Prasad resident of Village-Mohanpur, PO-Gadisrirampur, Giridih on her marriage ceremony as help being a social responsibility.	7,500.00

Date	CSR Work done	Amount incurred
23.05.2023	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children at Giridih being a social responsibility.	75,000.00
25.05.2023	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.15216 dt.25.05.2023 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
29.05.2023	Amount paid to Shri Shikshayatan towards school exam fee of needy child being a social responsibility.	518.88
14.06.2023	Amount paid to M/s. Sharma Emgineering Works Shop towards cost of one almirah, given to Uma Kumari D/o Late Ramchander Rai, Village-Gadisrirampur, Giridih on her marriage ceremony as help being a social responsibility.	7,500.00
23.06.2023	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 being a social responsibility.	1,01,000.00
26.06.2023	Amount paid to Giridih Pachamba Shree Gopal Goshala vide Receipt No.15226 dt.26.06.2023 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
26.06.2023	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children at Giridih being a social responsibility.	75,000.00
20.07.2023	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 being a social responsibility.	1,01,000.00
01.08.2023	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children at Giridih being a social responsibility.	1,50,000.00
16.08.2023	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 being a social responsibility.	1,01,000.00
20.09.2023	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 being a social responsibility.	1,01,000.00
28.09.2023	Amount paid to Sri Hanuman Prasad Poddar for maintenance of School of Blind Children at Giridih being a social responsibility.	75,000.00
	Total expenditure on CSR during 1st six months of 2023-24(B):	20,65,231.36
	Total expenditure on CSR till 31.03.2023(A+B):	2,61,02,777.72

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). On average each desk in the office areas has its own general waste bin and one recycling bin. 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. Solid waste in form of induction slag is 100% 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 free of cost. End cutting and misroll of TMT Bar, Runner & Risers are reused/melted again in induction furnaces as raw material of M.S. Billet. We are recycling used refractories as far as possible. Oily scum and metallic sludge recovered from rolling mills cooling bed is dried, briquetted and reused in melting furnaces. Iron fines generated or recovered from Iron Ore Beneficiation Plant during washing of low grade iron ore, is again beneficiated in its hot process iron ore beneficiation plant. 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 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 catchment of PM and dispersal into the atmosphere within prescribed limit. Stack of fume extractor is facilitated with online monitoring system connected with CPCB and SPCB servers.

Recommendations:

- Consider reducing the number of general waste bins in office to one or two in order to encourage employees to think more carefully about the waste, they are producing.
 - Solid waste generation during manufacturing process be collected appropriately and reused.
- 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, washing of low grade iron ore 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 21940.75 m³ and water level found to be in between 4.8 to 5.5 mbgl during the year 2022-23, Digital Water Meter No.1 was showing reading 13850.735 m³ and No.2 was showing 8373.439 m³ on 17.04.2023 i.e. the date of self environment audit.

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 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 23 MVA. During the audit a bill for March, 2023 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 green belt. Vacant land due to withering plants are regularly replaced by new one and greenery is maintained

Recommendations:

- Vacant land due to withering plants be regularly replaced by new one and greenery be maintained regularly.

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. 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 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

VASTHI INSTRUMENTS PRIVATE LIMITED

IT'S ALL ABOUT SAFETY

Plot No. 21 & 22, 3rd and 4th Floor Phase IV, Mangalagiri Road, Auto Nagar, Guntur - 522002, info@vasthi.com Tele No. 0863-2238 667, Fax No.0863-2262 667

CALIBRATION REPORT

Date of Calibration: 30.10.2023

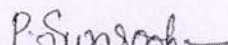
Calibration Due Date: 29.10.2024

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

Instrument Serial No.: VI 202000140

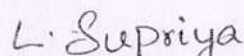
Test Items	Technical Requirements	Test Results
Appearance and Structure	Accessories Complete; Glass Clean; No Scratch on Surface	Passed
Zero Drift	$\pm 2\% \text{F.S}/24\text{h}$	1.2%
Span Drift	$\pm 2\% \text{F.S}/24\text{h}$	1.1%
Relativity	$R \geq 0.85$	1.3
Half width of the confidence interval	Half width of the confidence interval $\leq 10\%$	6%
Half width of the allowed interval	Half width of the allowed interval $\leq 25\%$	18%
Accuracy	When $> 200 \text{mg}/\text{m}^3$, relative error $\leq \pm 15\%$	10%

TESTED BY


(P.Swaroopa)



CHECKED BY


(L.Supriya)

VASTHI INSTRUMENTS PRIVATE LIMITED

IT'S ALL ABOUT SAFETY

Plot No. 21 & 22, 3rd and 4th Floor Phase IV, Mangalagiri Road, Auto Nagar, Guntur - 522002, info@vasthi.com Tele No. 0863-2238 667, Fax No.0863-2262 667

CALIBRATION REPORT

Date of Calibration: 30.10.2023

Calibration Due Date: 29.10.2024

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

Instrument Serial No.: VI 2019081

Test Items	Technical Requirements	Test Results
Appearance and Structure	Accessories Complete; Glass Clean; No Scratch on Surface	Passed
Zero Drift	$\pm 2\% \text{F.S}/24\text{h}$	1.2%
Span Drift	$\pm 2\% \text{F.S}/24\text{h}$	1.1%
Relativity	$R \geq 0.85$	1.3
Half width of the confidence interval	Half width of the confidence interval $\leq 10\%$	6%
Half width of the allowed interval	Half width of the allowed interval $\leq 25\%$	18%
Accuracy	When $> 200\text{mg}/\text{m}^3$, relative error $\leq \pm 15\%$	10%

TESTED BY

P. Swaroopa
(P.Swaroopa)



CHECKED BY

L. Supriya
(L.Supriya)

VASTHI INSTRUMENTS PRIVATE LIMITED

IT'S ALL ABOUT SAFETY

Plot No. 21 & 22, 3rd and 4th Floor Phase IV, Mangalagiri Road, Auto Nagar, Guntur -
522002, info@vasthi.com Tele No. 0863-2238 667, Fax No.0863-2262 667

CALIBRATION REPORT

Date of Calibration: 30.10.2023

Calibration Due Date: 29.10.2024

CUSTOMER: Balmukund Sponge & Iron Pvt Ltd Chatro ,Tundi road,Post-Gadisrirampur, Giridih-8153001.	PO No : PO Date : Instrument type: Online SPM Analyser Model: VBDM-1500 Range: 0-1000 Mg/Nm ³
---	--

Instrument Serial No.: VI 2019080

Test Items	Technical Requirements	Test Results
Appearance and Structure	Accessories Complete; Glass Clean; No Scratch on Surface	Passed
Zero Drift	$\pm 2\% \text{F.S}/24\text{h}$	1.2%
Span Drift	$\pm 2\% \text{F.S}/24\text{h}$	1.1%
Relativity	$R \geq 0.85$	1.3
Half width of the confidence interval	Half width of the confidence interval $\leq 10\%$	6%
Half width of the allowed interval	Half width of the allowed interval $\leq 25\%$	18%
Accuracy	When $> 200\text{mg}/\text{m}^3$, relative error $\leq \pm 15\%$	10%

TESTED BY

P. Swaroopa
(P.Swaroopa)



CHECKED BY

L. Supriya
(L.Supriya)

VASTHI INSTRUMENTS PRIVATE LIMITED

IT'S ALL ABOUT SAFETY

Plot No. 21 & 22, 3rd and 4th Floor Phase IV, Mangalagiri Road, Auto Nagar, Guntur - 522002, info@vasthi.com Tele No. 0863-2238 667, Fax No.0863-2262 667

TEST & CALIBRATION REPORT

Date of Calibration: 30.10.2023

Calibration Due Date: 29.10.2024

CUSTOMER: Balmukund Sponge & Iron Pvt Ltd Chatro ,Tundi road,Post-Gadisrirampur, Giridih-8153001.	P.O.No : Dt: Instrument Type: PM 10 Monitor Range : 0-10 mg/m3
---	---

Type : PM 10 Monitor
Model No : V-Air-9009-PM10
Range : 0-10 mg/m3
Equipment Sl.No : VE19040120

1. FUNCTIONAL TESTS:

Kept system on running condition for 76 Hours.

a. Repeatability Test: Test on blank film on 10 times and Standard film 10 times. Record counts.

S/N	Count value Of Blank Film	Count Value Of Standard Film
1	1315732	3334531
2	1314421	3335842
3	1314452	3345351
4	1313541	3334631
5	1315416	3334431
6	1313371	3335532
7	1315628	3337631
8	1316831	3339683
9	1314137	3333264
10	1313542	3334633
Max Error	0.28%	0.33%

b. Tested Flow Error : Found ok
c. Tested Paper Broken : Found ok
d. Tested Detector Error : Found ok
e. Tested Process Test : Found ok

CHECKED BY
L. Supriya
L. Supriya



APPROVED BY
Y. Nandini
Y. Nandini

TEST REPORT

Customer's Name & Address:	Test Report No.	: SRL/BSIPL/JUNE/GW-01/23/76
M/s Balmukund Sponge & Iron (P) Limited, At: Chatro – Tundi Road, District: Giridih, Jharkhand.	Report Issue Date	: 03/06/2023
	Sample Receipt Date	: 25/05/2023
	Analysis Date	: 26/05/2023 – 31/05/2023
	Lab Sample No	: BSIPL/GW – 01

Type of Sample	: Ground Water	Sample Quantity	: 1 Litre
Location of Sample	: Bore Well No. 1 (Plant Campus)	Sample Condition	: Properly Sealed
Date of Sampling	: 25/05/2023	Sampling Method	: Grab
Weather Condition	: Clear	Sample Collected by	: Client

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	464	-	-	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	162	200	600	APHA 23 rd Edn. 2340 C
8.	Iron (as Fe), mg/l	<0.1	0.3	No relaxation	APHA 23 rd Edn. 3500Fe B
9.	Chloride (as Cl), mg/l	26	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	290	500	2000	APHA 23 rd Edn. 2540 C
13.	Calcium (as Ca), mg/l	40	75	200	APHA 23 rd Edn. 3500 Ca B
14.	Magnesium (as Mg), mg/l	22	30	100	APHA 23 rd Edn. 3500 Mg B
15.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn. 3500 Cu B
16.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn. 3500 Mn B
17.	Sulphate (as SO ₄), mg/l	62	200	400	APHA 23 rd Edn. 4500 SO ₄ E
18.	Nitrate (as NO ₃), mg/l	4.4	45	No relaxation	APHA 23 rd Edn. 4500 NO ₃ B
19.	Sodium (as Na), mg/l	24	-	-	APHA 23 rd Edn. 3500 Na B
20.	Potassium (as K), mg/l	8	-	-	APHA 23 rd Edn. 3500 K 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	185	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 5.6 Mbg)

(Dr. Niraj Kumar Singh)
Authorized Signatory

-- End of the Report --

TEST REPORT

Customer's Name & Address:	Test Report No.	: SRL/BSIPL/JUNE/GW-01/23/77
M/s Balmukund Sponge & Iron (P) Limited, At.: Chatro – Tundi Road, District: Giridih, Jharkhand.	Report Issue Date	: 03/06/2023
	Sample Receipt Date	: 25/05/2023
	Analysis Date	: 26/05/2023 – 31/05/2023
	Lab. Sample No.	: BSIPL/GW – 02

Type of Sample	: Ground Water	Sample Quantity	: 1 Litre
Location of Sample	: Bore Well No. 2 (Plant Campus)	Sample Condition	: Properly Sealed
Date of Sampling	: 25/05/2023	Sampling Method	: Grab
Weather Condition	: Clear	Sample Collected by	: Client

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	998	-	-	APHA 23 rd Edn 2510 B
6.	pH Value	6.4	6.5 to 8.5	No relaxation	APHA 23 rd Edn 4500H B
7.	Total Hardness (as CaCO ₃), mg/l	566	200	600	APHA 23 rd Edn 2340 C
8.	Iron (as Fe), mg/l	<0.1	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	0.60	1.0	1.5	APHA 23 rd Edn 4500 F D
12.	Dissolved Solids mg/l	624	500	2000	APHA 23 rd Edn 2540 C
13.	Calcium (as Ca), mg/l	108	75	200	APHA 23 rd Edn 3500 Ca B
14.	Magnesium (as Mg), mg/l	84	30	100	APHA 23 rd Edn 3500 Mg B
15.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn 3600 Cu B
16.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn 3500 Mn B
17.	Sulphate (as SO ₄), mg/l	70	200	400	APHA 23 rd Edn 4500 SO ₄ E
18.	Nitrate (as NO ₃), mg/l	3.4	45	No relaxation	APHA 23 rd Edn 4500 NO ₃ B
19.	Sodium (as Na), mg/l	32	-	-	APHA 23 rd Edn 3500 Na B
20.	Potassium (as K), mg/l	9	-	-	APHA 23 rd Edn 3500 K 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	245	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 5.5 Mbgf)

(Dr. Niraj Kumar Singh)
Authorized Signatory

-- End of the Report --

TEST REPORT

Customer's Name & Address:	Test Report No.	: SRL/BSIPL/JUNE/GW-01/23/78
M/s Balmukund Sponge & Iron (P) Limited, At: Chatro - Tundi Road, District: Giridih, Jharkhand.	Report Issue Date	: 03/06/2023
	Sample Receipt Date	: 25/05/2023
	Analysis Date	: 26/05/2023 - 31/05/2023
	Lab. Sample No.	: BSIPL/GW - 03

Type of Sample	: Ground Water (Dug Well)	Sample Quantity	: 1 Litre
Location of Sample	: Dug Well, Gaganpur Vill., (Near Sri Lakhani Tudu House)	Sample Condition	: Properly Sealed
Date of Sampling	: 25/05/2023	Sampling Method	: Grab
Weather Condition	: Clear	Sample Collected by	: Client

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	458	-	-	APHA 23 rd Edn. 2510 B
6.	pH Value	6.6	6.5 to 8.5	No relaxation	APHA 23 rd Edn. 4500H B
7.	Total Hardness (as CaCO ₃), mg/l	182	200	600	APHA 23 rd Edn. 2340 C
8.	Iron (as Fe), mg/l	<0.1	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	0.56	1.0	1.5	APHA 23 rd Edn. 4500 F D
12.	Dissolved Solids mg/l	286	500	2000	APHA 23 rd Edn. 2540 C
13.	Calcium (as Ca), mg/l	46	75	200	APHA 23 rd Edn. 3500 Ca B
14.	Magnesium (as Mg), mg/l	15	30	100	APHA 23 rd Edn. 3500 Mg B
15.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn. 3500 Cu B
16.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn. 3500 Mn B
17.	Sulphate (as SO ₄), mg/l	41	200	400	APHA 23 rd Edn. 4500 SO ₄ E
18.	Nitrate (as NO ₃), mg/l	2.6	45	No relaxation	APHA 23 rd Edn. 4500 NO ₃ B
19.	Sodium (as Na), mg/l	38	-	-	APHA 23 rd Edn. 3500 Na B
20.	Potassium (as K), mg/l	12	-	-	APHA 23 rd Edn. 3500 K 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	190	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 4.5 Mbg/l)

(Dr. Niraj Kumar Singh)
Authorized Signatory

-- End of the Report --

TEST REPORT

Customer's Name & Address:	Test Report No.	: SRL/R/OCT/GW-01/23/184
M/s Balmukund Sponge & Iron (P) Limited, At.: Chatro – Tundi Road, District: Giridih, Jharkhand.	Report Issue Date	: 20/10/2023
	Sample Receipt Date	: 12/10/2023
	Analysis Date	: 13/10/2023 – 18/10/2023
	Lab. Sample No.	: GW – 81

Type of Sample	: Ground Water	Sample Quantity	: 1 Litre
Location of Sample	: Bore Well No. 1 (Plant Campus)	Sample Condition	: Properly Sealed
Date of Sampling	: 12/10/2023	Sampling Method	: Grab
Weather Condition	: Clear	Sample Collected by	: Client

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	448	-	-	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	156	200	600	APHA 23 rd Edn. 2340 C
8.	Iron (as Fe), mg/l	<0.1	0.3	No relaxation	APHA 23 rd Edn. 3500Fe B
9.	Chloride (as Cl), mg/l	28	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	0.52	1.0	1.5	APHA 23 rd Edn. 4500 F D
12.	Dissolved Solids mg/l	274	500	2000	APHA 23 rd Edn. 2540 C
13.	Calcium (as Ca), mg/l	36	75	200	APHA 23 rd Edn. 3500 Ca B
14.	Magnesium (as Mg), mg/l	21	30	100	APHA 23 rd Edn. 3500 Mg B
15.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn. 3500 Cu B
16.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn. 3500 Mn B
17.	Sulphate (as SO ₄), mg/l	56	200	400	APHA 23 rd Edn. 4500 SO ₄ ²⁻ E
18.	Nitrate (as NO ₃), mg/l	2.8	45	No relaxation	APHA 23 rd Edn. 4500 NO ₃ B
19.	Sodium (as Na), mg/l	16	-	-	APHA 23 rd Edn. 3500 Na B
20.	Potassium (as K), mg/l	9	-	-	APHA 23 rd Edn. 3500 K 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	182	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.

Niraj

(Dr. Niraj Kumar Singh)
Authorized Signatory

-- End of the Report --



SCIENTIFIC RESEARCH LABORATORY

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

Accredited by NABL & Jharkhand State Pollution Control Board

Analytical & Environmental Engineering Laboratory

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

Tele No.: 0651-4057244, Mobile: 94701 30700, E-mail: nirajksingh2003@yahoo.co.in

TEST REPORT

Customer's Name & Address:	Test Report No.	: SRL/R/OCT/GW-01/23/185
M/s Balmukund Sponge & Iron (P) Limited, At.: Chatro – Tundi Road, District: Giridih, Jharkhand.	Report Issue Date	: 20/10/2023
	Sample Receipt Date	: 12/10/2023
	Analysis Date	: 13/10/2023 – 18/10/2023
	Lab. Sample No.	: GW – 82

Type of Sample	: Ground Water	Sample Quantity	: 1 Litre
Location of Sample	: Bore Well No. 2 (Plant Campus)	Sample Condition	: Properly Sealed
Date of Sampling	: 12/10/2023	Sampling Method	: Grab
Weather Condition	: Clear	Sample Collected by	: Client

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	946	-	-	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	530	200	600	APHA 23 rd Edn. 2340 C
8.	Iron (as Fe), mg/l	<0.1	0.3	No relaxation	APHA 23 rd Edn. 3500Fe B
9.	Chloride (as Cl), mg/l	36	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	574	500	2000	APHA 23 rd Edn. 2540 C
13.	Calcium (as Ca), mg/l	102	75	200	APHA 23 rd Edn. 3500 Ca B
14.	Magnesium (as Mg), mg/l	86	30	100	APHA 23 rd Edn. 3500 Mg B
15.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn. 3500 Cu B
16.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn. 3500 Mn B
17.	Sulphate (as SO ₄), mg/l	64	200	400	APHA 23 rd Edn. 4500 SO ₄ ²⁻ E
18.	Nitrate (as NO ₃), mg/l	2.2	45	No relaxation	APHA 23 rd Edn. 4500 NO ₃ B
19.	Sodium (as Na), mg/l	21	-	-	APHA 23 rd Edn. 3500 Na B
20.	Potassium (as K), mg/l	9	-	-	APHA 23 rd Edn. 3500 K 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	238	200	600	APHA 23 rd Edn. 2320 B

Note:

(Water Level was observed as 4.4 Mbg)

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

Customer's Name & Address:	Test Report No.	: SRL/R/OCT/GW-01/23/186
M/s Balmukund Sponge & Iron (P) Limited, At.: Chatro – Tundi Road, District: Giridih, Jharkhand.	Report Issue Date	: 20/10/2023
	Sample Receipt Date	: 12/10/2023
	Analysis Date	: 13/10/2023 – 18/10/2023
	Lab. Sample No.	: GW – 83

Type of Sample	: Ground Water (Dug Well)	Sample Quantity	: 1 Litre
Location of Sample	: Dug Well, Gaganpur Vill., (Near Sri Lakhani Tudu House)	Sample Condition	: Properly Sealed
Date of Sampling	: 12/10/2023	Sampling Method	: Grab
Weather Condition	: Clear	Sample Collected by	: Client

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	466	-	-	APHA 23 rd Edn. 2510 B
6.	pH Value	6.6	6.5 to 8.5	No relaxation	APHA 23 rd Edn. 4500H B
7.	Total Hardness (as CaCO ₃), mg/l	178	200	600	APHA 23 rd Edn. 2340 C
8.	Iron (as Fe), mg/l	<0.1	0.3	No relaxation	APHA 23 rd Edn. 3500Fe B
9.	Chloride (as Cl), mg/l	26	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	0.40	1.0	1.5	APHA 23 rd Edn. 4500 F D
12.	Dissolved Solids mg/l	280	500	2000	APHA 23 rd Edn. 2540 C
13.	Calcium (as Ca), mg/l	42	75	200	APHA 23 rd Edn. 3500 Ca B
14.	Magnesium (as Mg), mg/l	12	30	100	APHA 23 rd Edn. 3500 Mg B
15.	Copper (Cu), mg/l	<0.05	0.05	1.5	APHA 23 rd Edn. 3500 Cu B
16.	Manganese (as Mn), mg/l	<0.05	0.1	0.3	APHA 23 rd Edn. 3500 Mn B
17.	Sulphate (as SO ₄), mg/l	38	200	400	APHA 23 rd Edn. 4500 SO ₄ ²⁻ E
18.	Nitrate (as NO ₃), mg/l	2.0	45	No relaxation	APHA 23 rd Edn. 4500 NO ₃ B
19.	Sodium (as Na), mg/l	32	-	-	APHA 23 rd Edn. 3500 Na B
20.	Potassium (as K), mg/l	11	-	-	APHA 23 rd Edn. 3500 K 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	195	200	600	APHA 23 rd Edn. 2320 B

Note:

(Water Level was observed as 4.3 Mbgl)

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT

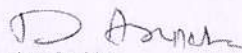
Test Report No : KLPL/6/23/WATER/08807A **Issue Date** : 24-June-2023
Reference : --
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)
Address : At.: CHATRO - TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 12-June, 2023 **Test Commenced On:** 12-June, 2023 **Test Completion On:** 15-June, 2023
Sample Description : **WASTE WATER**
Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification : **DOMESTIC EFFLUENT WATER** **Sampling Date:** 10-June, 2023
Batch No , Lot No : NA **MFG Date:** NA **EXP Date:** NA
Received Quantity : 1LTR X 1 **Place of Collection:** OUTLET OF ADMINISTRATIVE BUILDING
Sample Collected By : BY KLPL (MR. SUDHIR BARIK)
Ref. To Sampling Procedure: KLPL/QSP-07

Parameters	Unit	Requirement	Result	Test Method	
CHEMICAL PARAMETER					
i	Temperature	°c	-	28.5	APHA 23rd Edition (2550B), 2017
ii	Total Dissolved Solid	mg/l	-	234	APHA 23rd Edition (2540 C), 2017
iii	Chemical Oxygen Demand	mg/l, Max	250	46	APHA 23rd Edition (5220 B), 2017
iv	Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l, Max	30	14	APHA 23rd Edition 2012(5210 B), 2017
v	Total Suspended Solids	mg/l,Max	100	34	APHA 23rd Edition (2540 D),2017
vi	Oil & Grease	mg/l, Max	10	<1	APHA 23rd Edition (5520B),2017
PHYSICAL PARAMETER					
i	Color	True col. Unit	-	<1.0	APHA 23rd Edition (2120 B), 2017
ii	pH Value	---	5.5-9.0	7.4	APHA 23rd Edition (4500-H+-B), 2017

Remarks :

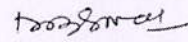
Any unusual feature observed during determination :

Analysed By


 Mr. Digambar Arukha
 For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory


 Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT

Test Report No : KLPL/6/23/ENVN/02309G **Issue Date** : 24-June-2023
Reference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED
Address : MEGA DIV. (ROLLING MILL) At.: CHATRO-TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 12-June-2023 **Commenced On:** 12-June-2023 **Completion On:** 14-June-2023
Sample Name : AIR QUALITY MONITORING (FUGITIVE DUST)
Sample Condition : FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)
Ref. To Sampling Procedure: KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR ROLLING MILL AREA DT- 08.06.2023				
Fugitive Dust	µG/M ³	2000	1689	KLPL/SOP/AIR-11:2012
Location & Date : NEAR RAW MATERIAL FEEDING AREA- 08.06.2023				
Fugitive Dust	µG/M ³	2000	1826	KLPL/SOP/AIR-11:2012
Location & Date : NEAR TMT STORAGE AREA DT- 08.06.2023				
Fugitive Dust	µG/M ³	2000	1548	KLPL/SOP/AIR-11:2012
Location & Date : NEAR TMT ROD LOADING AREA DT- 08.06.2023				
Fugitive Dust	µG/M ³	2000	1872	KLPL/SOP/AIR-11:2012

Remarks :

Any unusual feature observed during determination :

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT

Test Report No : KLPL/6/23/ENVN/02309H **Issue Date** : 24-June-2023
Reference : -
Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)
Address : (INDUCTION FURNACE UNIT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND
Date of receipt : 12-June, 2023 **Commenced On:** 12-June, 2023 **Completion On:** 14-June, 2023
Sample Name : NOISE (DAY TIME)
Sample Condition : -
Quantity : 4 NOS
Ref.To Sampling Procedure : KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR METAL CONVEYER, DT- 07.06.2023				
Noise Level Indl. Area (Day)	dB	75	62.7	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR RAW MATERIAL YARD (INDUCTION FURNACE DIV.), DT- 07.06.2023				
Noise Level Indl. Area (Day)	dB	75	62.3	IS 9989:1981 (RA 2014):2014
Location & Date : NORTHERN SIDE OF INDUCTION FURNACE SHED, DT- 07.06.2023				
Noise Level Indl. Area (Day)	dB	75	60.5	IS 9989:1981 (RA 2014):2014
Location & Date : BESIDE CONTROL ROOM, DT- 07.06.2023				
Noise Level Indl. Area (Day)	dB	75	61.9	IS 9989:1981 (RA 2014):2014

Remarks :
 Any unusual feature observed during determination :

Analysed By

D. Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

Authorised 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-751032, ODISHA

TEST REPORT

Test Report No : KLPL/6/23/ENVN/023091 **Issue Date** : 24-June-2023
Reference : -
Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)
Address : (INDUCTION FURNACE UNIT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND
Date of receipt : 12-June, 2023 **Commenced On:** 12-June, 2023 **Completion On:** 14-June, 2023

Sample Name : NOISE (NIGHT TIME)
Sample Condition : -
Sample Collected By : By KLPL(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- 07.06.2023 & 08.06.2023				
Noise Level Indl. Area (Night)	dB	70	61.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR RAW MATERIAL YARD (INDUCTION FURNACE DIV.), DT- 07.06.2023 & 08.06.2023				
Noise Level Indl. Area (Night)	dB	70	59.0	IS 9989:1981 (RA 2014):2014
Location & Date : NORTHERN SIDE OF INDUCTION FURNACE SHED, DT- 07.06.2023 & 08.06.2023				
Noise Level Indl. Area (Night)	dB	70	60.1	IS 9989:1981 (RA 2014):2014
Location & Date : BESIDE CONTROL ROOM, DT- 07.06.2023 & 08.06.2023				
Noise Level Indl. Area (Night)	dB	70	61.0	IS 9989:1981 (RA 2014):2014

Remarks :

Any unusual feature observed during determination :

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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

KLPL- 363233A of 1



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT

Test Report No : KLPL/6/23/ENVN/02309L **Issue Date** : 24-June-2023
Reference : -
Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)
Address : (ROLLING MILL UNIT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND
Date of receipt : 12-June, 2023 **Commenced On:** 12-June, 2023 **Completion On:** 14-June, 2023

Sample Name : NOISE (DAY TIME)
Sample Condition : --
Sample Collected By : By KLPL(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- 08.06.2023				
Noise Level Indl. Area (Day)	dB	75	62.7	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR RAW MATERIAL YARD (ROLLING DIV.), DT- 08.06.2023				
Noise Level Indl. Area (Day)	dB	75	63.1	IS 9989:1981 (RA 2014):2014
Location & Date : EASTERN SIDE OF ROLLING MILL UNIT, DT- 08.06.2023				
Noise Level Indl. Area (Day)	dB	75	61.8	IS 9989:1981 (RA 2014):2014
Location & Date : SOUTHERN SIDE OF LABOUR REST ROOM, DT- 08.06.2023				
Noise Level Indl. Area (Day)	dB	75	58.6	IS 9989:1981 (RA 2014):2014

Remarks :

Any unusual feature observed during determination :

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT

Test Report No	: KLPL/6/23/ENVN/02309M	Issue Date	: 24-June-2023	
Reference	: -			
Customer Name	: BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)			
Address	: (ROLLING MILL UNIT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND			
Date of receipt	: 12-June, 2023	Commenced On:	12-June, 2023	
		Completion On:	14-June, 2023	
Sample Name	: NOISE (NIGHT TIME)			
Sample Condition	: --			
Sample Collected By	: By KLPL(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- 07.06.2023 & 08.06.2023				
Noise Level Indl. Area (Night)	dB	70	60.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR RAW MATERIAL YARD (ROLLING DIV.), DT- 07.06.2023 & 08.06.2023				
Noise Level Indl. Area (Night)	dB	70	59.7	IS 9989:1981 (RA 2014):2014
Location & Date : EASTERN SIDE OF ROLLING MILL UNIT, DT- 07.06.2023 & 08.06.2023				
Noise Level Indl. Area (Night)	dB	70	61.1	IS 9989:1981 (RA 2014):2014
Location & Date : SOUTHERN SIDE OF LABOUR REST ROOM, DT- 07.06.2023 & 08.06.2023				
Noise Level Indl. Area (Night)	dB	70	56.5	IS 9989:1981 (RA 2014):2014

Remarks :

Any unusual feature observed during determination :

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



..... End of Test Report

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KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT



Test Report No : KLPL/6/23/ENVN/02309N **Issue Date** : 24-June, 2023
Amendment No : - **Amendment Date** : -
Reference : -
Customer Name : **BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION)**
Address : AT-CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 12-June, 2023 **Commenced On** : 12-June, 2023 **Completion On** : 15-June, 2023
Sample Name : **FLUE GAS | STACK MONITORING**
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)
Ref.To Sampling Procedure : KLPL/SOP/AIR-20

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : INDUCTION FURNACE STACK-01, DATE:07.06.2023				
Particulate Matter	mg/Nm ³	150	74	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	28	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg kelvin	--	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	--	14	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 kelvin	--	38	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm ³ / hr	--	5,236	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.387	IS 11255(Part-1):1985,RA:2019
Name of fuel & quantity used per shift	--	--	ELECTRICITY(ELECTRIC FURNACE)	--
Production capacity	--	--	3 X 15MT FURNACE	--
Stack attached to	--	--	FUME EXTRACTION SYSTEM	--

Remarks :

Any unusual feature observed during determination :

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 363228A^{of 1}



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT



Test Report No : KLPL/6/23/ENVN/023090 **Issue Date** : 24-June, 2023
Amendment No : - **Amendment Date** : -
Reference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION)
Address : AT-CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 12-June, 2023 **Commenced On** : 12-June, 2023 **Completion On** : 15-June, 2023
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)
Ref.To Sampling Procedure : KLPL/SOP/AIR-20

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : INDUCTION FURNACE STACK-02, DATE:07.06.2023				
Particulate Matter	mg/Nm ³	150	62	IS 11255(Part-1):1965,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	26	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg kelvin	--	105	IS 11255(Part-1):1965,RA:2019
Velocity	m/sec	--	7.09	IS 11255(Part-1):1965,RA:2019
Sulphur Dioxide as SO ₂	mg/Nm ³	--	12	IS 11255(part-2):1965,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 kelvin	--	38	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm ³ / hr	--	5,690	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.353	IS 11255(Part-1):1985,RA:2019
Name of fuel & quantity used per shift	--	--	ELECTRICITY(ELECTRIC FURNACE)	--
Production capacity	--	--	1 X 15MT FURNACE	--
Stack attached to	--	--	FUME EXTRACTION SYSTEM	--

Remarks :

Any unusual feature observed during determination :

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT

Test Report No : KLPL/6/23/ENVN/02309A **Issue Date** : 24-June-2023
Reference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)
Address : (ROLLING, CCM & IRON ORE BENEFICIATION PLANT), AT- CHATRO- TUNDI ROAD, GIRIDIH, JHARKHAND.
Date of receipt : 12-June, 2023 **Commenced On:** 12-June, 2023 **Completion On:** 19-June, 2023
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)
Ref. To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR LABOUR QUARTER DT- 09.06.2023 TO 10.06.2023				
Sulphur Dioxide	µg/m ³	80	18.60	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	47.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.78	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	12.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Benza (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
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Location & Date : NEAR LABOUR REST ROOM BUILDING DT- 09.06.2023 TO 10.06.2023				
Sulphur Dioxide	µg/m ³	80	20.80	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	86.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	49.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.82	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	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	14.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Benza (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
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Location & Date : NEAR NORTHERN BOUNDARY DT- 09.06.2023 TO 10.06.2023				
Sulphur Dioxide	µg/m ³	80	21.00	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	37.50	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	89.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	51.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017



KLPL- 363244A

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KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT

Test Report No : KLPL/6/23/ENVN/02309A **Issue Date** : 24-June-2023
Reference : -
Customer Name : **BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV)**
Address : (ROLLING, CCM & IRON ORE BENEFICIATION PLANT) AT-CHATRO- TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 12-June, 2023 **Commenced On:** 12-June, 2023 **Completion On:** 19-June, 2023
Sample Name : **AMBIENT AIR QUALITY MONITORING**
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)
Ref.To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.84	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	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	16.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Benza (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
Nickel (Ni)	ng/m ³	20	4.2	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Location & Date : **NEAR SOUTHERN BOUNDARY DT- 09.06.2023 TO 10.06.2023**

Sulphur Dioxide	µg/m ³	80	18.40	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	35.80	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	50.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.82	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	33.00	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	14.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Benza (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
Nickel (Ni)	ng/m ³	20	4.00	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Remarks :

Any unusual feature observed during determination :

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 363243A Page 2 of 2



KALYANI LABORATORIES PVT. LTD.

Plot No-78/944, Millemium City Pahal, Bhubaneswar-751032, Odisha

TEST REPORT


Test Report No : KLPL/6/23/ENVN/02309B **Issue Date** : 24-June-2023
Rerefrence : -
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 : 12-June, 2023 **Commenced On:** 12-June, 2023 **Completion On:** 13-June, 2023
Sample Name : AIR QUALITY MONITORING (FUGITIVE DUST)
Sample Condition : FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : By KLPL(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-10.06.2023			
Fugitive Dust	µG/M ³	2000	1854	KLPL/SOP/AIR-11:2012
Location & Date	: NEAR RAW MATERIAL STORAGE YARD (IRON ORE BENEFICIATION UNIT) DT-10.06.2023			
Fugitive Dust	µG/M ³	2000	1676	KLPL/SOP/AIR-11:2012
Location & Date	: NEAR SCRAP YARD (M.S.BILLET SECTION) DT-10.06.2023			
Fugitive Dust	µG/M ³	2000	1580	KLPL/SOP/AIR-11:2012
Location & Date	: NEAR WEIGH BRIDGE (M. S. BILLET SECTION) DT- 10.06.2023			
Fugitive Dust	µG/M ³	2000	1874	KLPL/SOP/AIR-11:2012

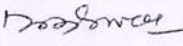
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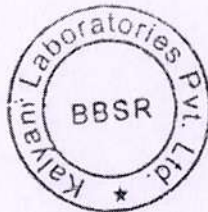
Any unusual feature observed during determination :

Analysed By


Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory


Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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

KLPL- 363242A Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT

Test Report No : KLPL/6/23/ENVN/02309C **Issue Date** : 24-June-2023
Rereference : -
Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)
Address : (SMS & IOB PLANT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND
Date of receipt : 12-June, 2023 **Commenced On**: 12-June, 2023 **Completion On**: 13-June, 2023

Sample Name : NOISE (DAY TIME)
Sample Condition : -
Sample Collected By : By KLPL(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- 09.06.2023				
Noise Level Ind. Area (Day)	dB	75	68.4	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR RAW MATERIAL YARD (IRON ORE BENEFICIATION UNIT), DT- 09.06.2023				
Noise Level Ind. Area (Day)	dB	75	62.7	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR SCRAP YARD (M.S. BILLET SECTION), DT- 09.06.2023				
Noise Level Ind. Area (Day)	dB	75	60.3	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR WEIGH BRIDGE (M.S. BILLET SECTION), DT- 09.06.2023				
Noise Level Ind. Area (Day)	dB	75	65.8	IS 9989:1981 (RA 2014):2014

Remarks :

Any unusual feature observed during determination :

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



..... End of Test Report

KLPL- 363241A ^{Page 1 of 1}



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT

Test Report No : KLPL/6/23/ENVN/02309D **Issue Date** : 24-June-2023
Rereference : -
Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)
Address : (SMS & IOB PLANT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND
Date of receipt : 12-June, 2023 **Commenced On:** 12-June, 2023 **Completion On:** 13-June, 2023

Sample Name : NOISE (NIGHT TIME)
Sample Condition : -
Sample Collected By : By KLPL(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- 09.06.2023 & 10.06.2023				
Noise Level Ind. Area (Night)	dB	70	61.5	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR RAW MATERIAL YARD (IRON ORE BENEFICIATION UNIT), DT- 09.06.2023 & 10.06.2023				
Noise Level Ind. Area (Night)	dB	70	59.8	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR SCRAP YARD (M.S. BILLET SECTION), DT- 09.06.2023 & 10.06.2023				
Noise Level Ind. Area (Night)	dB	70	58.6	IS 9989:1981 (RA 2014):2014
Location & Date : NEAR WEIGH BRIDGE (M.S. BILLET SECTION), DT- 09.06.2023 & 10.06.2023				
Noise Level Ind. Area (Night)	dB	70	63.4	IS 9989:1981 (RA 2014):2014

Remarks :

Any unusual feature observed during determination :

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

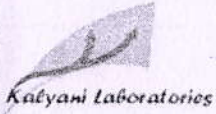
Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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

KLPL- 363240A Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



TEST REPORT

NABL ULR NO : TC1206323000018157



TC-12063

Test Report No : KLPL/9/23/ENVN/02528

Issue Date : 22-Sept-2023

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 : 11-Sept, 2023 Commenced On: 11-Sept, 2023 Completion On: 20-Sept, 2023

Sample Name : AMBIENT AIR QUALITY MONITORING

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

Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

Ref. To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
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Location & Date : NEAR LABOUR QUARTER DT- 08.09.2023 TO 09.09.2023

Sulphur Dioxide	µg/m ³	80	15.50	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	31.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	71.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	38.00	KLPL/SOP/AIR-02, ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.67	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	<0.02	KLPL/SOP/AIR-10, ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	24.00	KLPL/SOP/AIR-05, ISSUE NO.1:2017

Benza (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
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10, ISSUE NO.1:2017

Location & Date : NEAR LABOUR REST ROOM BUILDING DT- 08.09.2023 TO 09.09.2023

Sulphur Dioxide	µg/m ³	80	16.80	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	33.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	74.40	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	40.00	KLPL/SOP/AIR-02, ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.72	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	<0.02	KLPL/SOP/AIR-10, ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	26.00	KLPL/SOP/AIR-05, ISSUE NO.1:2017

Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	KLPL/SOP/AIR-07, ISSUE NO.1:2019
Arsenic (As)	µg/m ³	06	<1.0	KLPL/SOP/AIR-10, ISSUE NO.1:2017
Nickel (Ni)	µg/m ³	20	4.20	KLPL/SOP/AIR-10, ISSUE NO.1:2017

Location & Date : NEAR NORTHERN BOUNDARY DT- 08.09.2023 TO 09.09.2023

Sulphur Dioxide	µg/m ³	80	18.00	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	34.50	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	76.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	41.00	KLPL/SOP/AIR-02, ISSUE NO.1:2017



KLPL-364616A²



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENJUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT

NABL ULR NO : TC1206323000018157
Test Report No : KLPL/9/23/ENVN/02528 **Issue Date** : 22-Sept-2023
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 : 11-Sept, 2023 **Commenced On**: 11-Sept, 2023 **Completion On**: 20-Sept, 2023

Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)
Ref.To Sampling Procedure: KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.70	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	33.00	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

Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	µg/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	µg/m ³	20	4.20	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Location & Date : NEAR SOUTHERN BOUNDARY DT- 08.09.2023 TO 09.09.2023

Sulphur Dioxide	µg/m ³	80	20.00	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	36.60	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	78.00	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	0.74	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	38.00	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	33.60	KLPL/SOP/AIR-05 , ISSUE NO.1:2017

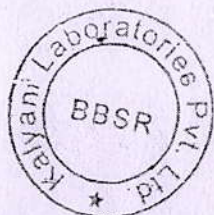
Benza (a) Pyrene (BaP)	µg/m ³	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	µg/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	µg/m ³	20	4.40	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Remarks : NIL

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

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

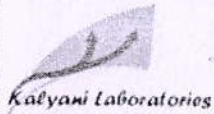


Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

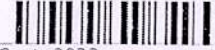
KLPL- 364615A



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT



Test Report No : KLPL/9/23/ENVN/02528 **Issue Date** : 22-Sept, 2023
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 : 11-Sept, 2023 **Commenced On** : 11-Sept, 2023 **Completion On**: 20-Sept, 2023
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)
Ref. To Sampling Procedure : KLPL/QSP-07

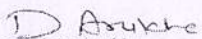
Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR LABOUR QUARTER DT- 08.09.2023 TO 09.09.2023				
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date : NEAR LABOUR REST ROOM BUILDING DT- 08.09.2023 TO 09.09.2023				
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date : NEAR NORTHERN BOUNDARY DT- 08.09.2023 TO 09.09.2023				
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date : NEAR SOUTHERN BOUNDARY DT- 08.09.2023 TO 09.09.2023				
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019

Remarks : --

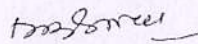
Requirement is as per standard specification NAAQS:2009

Any unusual feature observed during determination : NIL

Analysed By


 Mr. Digambar Arukha
 For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory


 Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.



Recognized by MoEF & CC,QCI-NABET

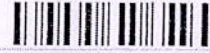
End of Test Report



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT



Test Report No : KLPL/9/23/ENVN/02528A **Issue Date** : 22-Sept-2023
Rereference : -
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 : 11-Sept, 2023 **Commenced On:** 11-Sept, 2023 **Completion On:** 14-Sept, 2023
Sample Name : AIR QUALITY MONITORING (FUGITIVE DUST)
Sample Condition : FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : By KLPL(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-09.09.2023				
Fugitive Dust	µG/M ³	2000	1796	KLPL/SOP/AIR-11:2012
Location & Date : NEAR RAW MATERIAL STORAGE YARD (IRON ORE BENEFICIATION UNIT) DT-09.09.2023				
Fugitive Dust	µG/M ³	2000	1654	KLPL/SOP/AIR-11:2012
Location & Date : NEAR SCRAP YARD (M.S.BILLET SECTION) DT-09.09.2023				
Fugitive Dust	µG/M ³	2000	1588	KLPL/SOP/AIR-11:2012
Location & Date : NEAR WEIGH BRIDGE (M. S. BILLET SECTION) DT- 09.09.2023				
Fugitive Dust	µG/M ³	2000	1760	KLPL/SOP/AIR-11:2012

Remarks : -

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

Analysed By

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



Recognized by MoEF & CC,QCI-NABET

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

KLPL- 3646T3A



Kalyani Laboratories

KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT



NABL ULR NO : TC1206323000018158

Test Report No : KLPL/9/23/ENVN/02528B

Issue Date : 22-Sept-2023

Reference : -

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

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

Date of receipt : 11-Sept, 2023 Commenced On: 11-Sept, 2023 Completion On: 14-Sept, 2023

Sample Name : NOISE (DAY TIME)

Sample Condition : --

Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

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

Parameters	Unit	Standard Value	Results	Test Method
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Location & Date : NEAR HOPPER (IRON ORE BENEFICIATION UNIT), DT- 09.09.2023

Noise Level Indl. Area (Day)	dB(A)	75	66.8	IS 9989:1981 (RA 2014)
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Location & Date : NEAR RAW MATERIAL YARD (IRON ORE BENEFICIATION UNIT), DT- 09.09.2023

Noise Level Indl. Area (Day)	dB(A)	75	64.2	IS 9989:1981 (RA 2014)
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Location & Date : NEAR SCRAP YARD (M.S. BILLET SECTION), DT- 09.09.2023

Noise Level Indl. Area (Day)	dB(A)	75	62.9	IS 9989:1981 (RA 2014)
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Location & Date : NEAR WEIGH BRIDGE (M.S. BILLET SECTION), DT- 09.09.2023

Noise Level Indl. Area (Day)	dB(A)	75	67.3	IS 9989:1981 (RA 2014)
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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

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-751032, ODISHA



TEST REPORT

NABL ULR NO : TC1206323000018159  TC-12063

Test Report No : KLPL/9/23/ENVN/02528C Issue Date : 22-Sept-2023

Reference : -

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

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

Date of receipt : 11-Sept, 2023 Commenced On: 11-Sept, 2023 Completion On: 14-Sept, 2023

Sample Name : NOISE (NIGHT TIME)

Sample Condition : --

Sample Collected By : By KLPL(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- 09.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	62.6	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (IRON ORE BENEFICIATION UNIT), DT- 09.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	59.4	IS 9989:1981 (RA 2014)
Location & Date : NEAR SCRAP YARD (M.S. BILLET SECTION), DT- 09.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	59.8	IS 9989:1981 (RA 2014)
Location & Date : NEAR WEIGH BRIDGE (M.S. BILLET SECTION), DT- 09.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	62.7	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. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/44, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



TC-12063

TEST REPORT



NABL ULR NO : TC1206323000018168
Test Report No : KLPL/9/23/ENVN/02529I **Issue Date** : 22-Sep-2023
Amendment No : - **Amendment Date** : -
Reference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION- MBF)
Address : AT-CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 11-Sep-2023 **Commenced On** : 11-Sep-2023 **Completion On** : 14-Sep-2023
Sample Name : FLUE GAS | STACK MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED
Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)
Ref.To Sampling Procedure : KLPL/SOP/AIR-20

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : INDUCTION FURNACE STACK-02, DATE:07.09.2023				
Particulate Matter	mg/Nm ³	150	52	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	25	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg C	--	110	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	6.83	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO ₂	mg/Nm ³	--	12	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	--	33	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm ³ / hr	--	5,410	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.28	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 :
 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.

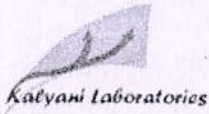
Analysed By

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



Authorised Signatory

Dr. Debasis Biswal
 Dr. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.



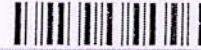
KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



TC-12063

TEST REPORT



NABL ULR NO : TC1206323000018167

Test Report No : KLPL/9/23/ENVN/02529H

Issue Date : 22-Sep-2023

Amendment No : -

Amendment Date : -

Reference : -

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

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

Date of receipt : 11-Sep-2023

Commenced On : 11-Sep-2023

Completion On : 15-Sep-2023

Sample Name : FLUE GAS | STACK MONITORING

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

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

Parameters	Unit	Standard Value	Results	Test Method
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Location & Date : INDUCTION FURNACE STACK-01, DATE:07.09.2023

Particulate Matter	mg/Nm ³	150	46	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	24	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg C	--	112	IS 11255(Part-1):1985,RA:2019
Vclocity	m/sec	--	6.63	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO2	mg/Nm ³	--	13	IS 11255(part-2):1985,RA:2019
*Weather condltion	--	--	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	--	32	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm3 / hr	--	5,225	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.24	IS 11255(Part-1):1985,RA:2019
*Name of fuel & quantity used per shift	--	--	ELECTRICITY(ELECTRIC FURNACE)	--
*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

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 364667A



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



TEST REPORT

NABL ULR NO : TC1206323000018166 **Issue Date** : 22-Sept-2023

Test Report No : KLPL/9/23/ENVN/02529G

Reference : -

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

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

Date of receipt : 11-Sept, 2023 **Commenced On**: 11-Sept, 2023 **Completion On**: 12-Sept, 2023

Sample Name : NOISE(NIGHT TIME)

Sample Condition : -

Sample collected by : By KLPL (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- 09.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	60.2	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (ROLLING DIV.), DT- 09.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	61.8	IS 9989:1981 (RA 2014)
Location & Date : EASTERN SIDE OF ROLLING MILL UNIT, DT- 09.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	59.4	IS 9989:1981 (RA 2014)
Location & Date : SOUTHERN SIDE OF LABOUR REST ROOM, DT- 09.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	58.6	IS 9989:1981 (RA 2014)

Remarks : -

Any unusual feature observed during determination : NIL

Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

D Arukha

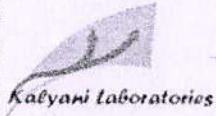
Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

Authorised Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.





KALYANI LABORATORIES PVT. LTD.

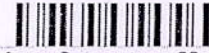
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TEST REPORT

TC-12063

NABL ULR NO : TC1206323000018165



Issue Date : 22-Sept-2023

Test Report No : KLPL/9/23/ENVN/02529F

Reference : -

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

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

Date of receipt : 11-Sept, 2023 Commenced On: 11-Sept, 2023 Completion On: 12-Sept, 2023

Sample Name : NOISE(DAY TIME)

Sample Condition : -

Sample collected by : By KLPL (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- 06.09.2023				
Noise Level Incl. Area (Day)	dB(A)	75	64.8	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (ROLLING DIV.), DT- 06.09.2023				
Noise Level Incl. Area (Day)	dB(A)	75	65.1	IS 9989:1981 (RA 2014)
Location & Date : EASTERN SIDE OF ROLLING MILL UNIT, DT- 06.09.2023				
Noise Level Incl. Area (Day)	dB(A)	75	64.6	IS 9989:1981 (RA 2014)
Location & Date : SOUTHERN SIDE OF LABOUR REST ROOM, DT- 06.09.2023				
Noise Level Incl. Area (Day)	dB(A)	75	60.7	IS 9989:1981 (RA 2014)

Remarks : -

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. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



End of Test Report

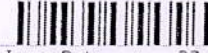


KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



TEST REPORT



TC-12063

NABL ULR NO : TC1206323000018162

Test Report No : KLPL/9/23/ENVN/02529C

Issue Date : 22-Sept-2023

Reference : -

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

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

Date of receipt : 11-Sept, 2023 Commenced On: 11-Sept, 2023 Completion On: 12-Sept, 2023

Sample Name : NOISE (NIGHT TIME)

Sample Condition : -

Sample collected by : By KLPL (MR. SUJHIT KUMAR BARIK)

Ref.To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR METAL CONVEYER, DT- 06.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	60.5	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (INDUCTION FURNACE DIV.), DT- 06.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	58.4	IS 9989:1981 (RA 2014)
Location & Date : NORTHERN SIDE OF INDUCTION FURNACE SHED, DT- 06.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	59.2	IS 9989:1981 (RA 2014)
Location & Date : BESIDE CONTROL ROOM, DT- 06.09.2023				
Noise Level Indl. Area (Night)	dB(A)	70	58.6	IS 9989:1981 (RA 2014)

Remarks : -

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. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 364872A



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



TEST REPORT



TC-12063

NABL ULR NO : TC1206323000018161
Test Report No : KLPL/9/23/ENVN/025298 **Issue Date** : 22-Sept-2023
Reference : -
Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)
Address : (INDUCTION FURNACE UNIT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND
Date of receipt : 11-Sept, 2023 **Commenced On:** 11-Sept, 2023 **Completion On:** 12-Sept, 2023

Sample Name : NOISE (DAY TIME)
Sample Condition : -
Sample collected by : By KLPL (MR. SUDHIR KUMAR BARIK)
Ref.To Sampling Procedure: KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR METAL CONVEYER, DT- 06.09.2023				
Noise Level Indl. Area (Day)	dB(A)	75	62.4	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (INDUCTION FURNACE DIV.), DT- 06.09.2023				
Noise Level Indl. Area (Day)	dB(A)	75	60.7	IS 9989:1981 (RA 2014)
Location & Date : NORTHERN SIDE OF INDUCTION FURNACE SHED, DT- 06.09.2023				
Noise Level Indl. Area (Day)	dB(A)	75	63.2	IS 9989:1981 (RA 2014)
Location & Date : BESIDE CONTROL ROOM, DT- 06.09.2023				
Noise Level Indl. Area (Day)	dB(A)	75	61.6	IS 9989:1981 (RA 2014)

Remarks : -

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. Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd.