

**BALMUKUND****SPONGE & IRON PVT. LTD.  
( M E G A D V N . )**HEAD OFFICE : NEAR VISHWANATH NURSING HOME  
BAJRANG CHOWK, AT-BARMASIA, DIST/PO.: GIRIDIH-815301  
PHONE : 06532-250597  
E-mail : balmukund.sponge@gmail.com  
Website : www.balmukund.com  
CIN : U27310WB1999PTC26618529<sup>th</sup> November, 2023

&lt;Dial 18002666868&gt; &lt;Wear Mask, Stay Safe&gt;

EW461779206IN INR:6987461779206  
SP MBC KOLKATA RMS <700001>  
Counter No:3,30/11/2023,15:35  
To:TE ZONAL OFFICE,SHYAMLI  
PIN:834002, Doranda HO  
From:BALMUKUND S,18 R N M ROAD  
Wt:165gms  
Amt:47.20(Cash)Tax:7.20The Zonal Officer,  
Ministry of Environment, Forests and Climate Change,  
Eastern Central Zone,  
Bungalow No. A-2, Mecon Colony, Shyamli,  
**Ranchi-834 002****Sub : EC compliance report for the period from April, 2023 to September, 2023 of conditions as laid down in Environmental Clearance issued by Ministry of Environment and Forest (MoEF), Govt. of India**

Sir,

With reference to the subject above, we are submitting our compliance of the conditions of Environment Clearance granted to us by the Ministry of Environment & Forest, Govt. of India to our Pig Iron Plant (of capacity-39000 TPA) vide letter No.J-11011/870/2008-IA II (I) dt.28<sup>th</sup> July, 2010 for compliance period from 01<sup>st</sup> April, 2023 to 30<sup>th</sup> September, 2023 as follows.**A) Specific Conditions :**

Sl. No.	Conditions	Compliance
i.	To control the emission, the emissions from the Mini Blast Furnace, Gas Cleaning Plant comprising dust catchers and ventury scrubbers shall be installed to control the emissions within the prescribed standards.	We have installed Gas Cleaning Plant along-with online dust (PM) monitoring system. Online monitoring system has also been facilitated with CO, NO <sub>x</sub> and SO <sub>2</sub> Gas Analyzer with remote calibration facility and Water Flow Meter with Camera having 24 x 7 days connectivity to CPCB and JSPC Board. Particulate emission is being maintained below 50 mg/Nm <sup>3</sup> . All other parameters namely CO, NO <sub>x</sub> and SO <sub>2</sub> are also being maintained within prescribed limits and data is being transmitted to the server of CPCB and JSPC Board during operational period. On-line Data for PM, SO <sub>2</sub> , CO, NO <sub>x</sub> and Water Flow have been transmitted during operational period as per direction. Data are available on server may be verified. Stack emission is also monitored quarterly by M/s. Kalyani Laboratories Pvt. Ltd., Bhubaneswar (a NABL laboratory), results has been shown in their <b>AAQ Monitoring Report</b> on 12 parameters <b>enclosed</b> herewith for operational period. We have installed dust catchers and wet ventury scrubbers to control the fugitive emissions at work zone within the prescribed standards. Dry fog system is already installed and is being operated efficiently as previously informed and photographs submitted to the MoEF & CC authorities.
ii.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R.No.826(E) dated 16 <sup>th</sup> November, 2009 should be followed.	The National Ambient Air Quality Standards issued by the Ministry vide GSR No.826 (E) dated 16 <sup>th</sup> November, 2009 is being followed. Air quality monitoring within the premises has been improved by installing Online PM monitoring system with 24x7 days connectivity to SPCB and CPCB servers. Monitoring of Ambient Air Quality parameters such as RSPM, SO <sub>2</sub> , CO & NO <sub>x</sub> have also been carried out during the operational period by above said NABL laboratory.

**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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-2-

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



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-3-

Sl. No.	Conditions	Compliance
		Fugitive emission from vehicular movement monitored by installed online PM monitoring system. <b>Monitoring report of Fugitive Emission</b> for the compliance operational period enclosed.
v.	Permission for drawl of 10 m/hr of water shall be obtained from the Central Ground Water Board/Central Ground Water Authority whichever may be applicable in this case.	Permission from CGWA for drawl of water has been obtained vide NOC No.21-4(166) MER/ CGWA/2013-396 dt.04.03.2014. Renewal of NOC has been granted with validity till 03.03.2025 vide NOC No. CGWA/NOC/IND/REN/3/2022/7357(Copy submitted with previous compliance report).
vi.	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Rain water harvesting as per condition has been constructed. Rain water is properly harvested in reservoirs having sufficient capacity to store rain water. Maximum water is stored in the reservoir and used for dust suppression and greenbelt development during lean season. Balance water requirement is met from ground water source. Roof top rain water harvesting systems are provided and water so collected is recharged properly to maintain the ground water table. Required Piezometers have been installed.
vii.	'Zero' effluent discharge should be strictly followed and no wastewater shall be discharged outside the premises.	'Zero' effluent discharge has strictly been adopted and no wastewater is discharged outside the factory premises. Water is used only for cooling of hot products and is kept in closed circuit. Domestic waste water is stored in settling tank and treated by soak pit. Treated domestic waste water so obtained is reused in dust suppression and greenbelt development.
viii.	The water consumption shall not exceed as per prescribed standards for the steel plants.	We use ground water less than 120 KLD as per NOC granted by CGWA.
ix.	All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Accretions shall also be properly utilized.	100% Slag generated from blast furnace is sold to cement manufacturers on demand. During 1 <sup>st</sup> half year of FY: 2023-24, the unit has generated. 7678.010 MT and sold 7534.020 MT of pig slag.
x.	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash shall be provided to cement and brick manufacturers for further utilization and 'Memorandum of Understanding' shall be submitted to the Ministry's Regional Office at Bhubaneswar.	No fly ash or bottom ash is generated during manufacturing of Pig Iron.

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-4-

Sl. No.	Conditions	Compliance
xi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for Steel Plants should be implemented.	<p>Recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants is implemented and submit point-wise compliance for operational period as follow:</p> <p><b><u>CREP conditions &amp; compliance :</u></b></p> <ol style="list-style-type: none"> <li><u>Coke Oven Plant</u> : We do not have coke oven plant in the premises.</li> <li><u>Pig Iron Plant</u>: To minimize fugitive emission we have concreted shop floor, RM &amp; Finished goods shed, also installed Dust catcher, bag filter, dry fog systems, fixed type water sprinklers. Besides, manual water sprinkling (by water Tankers) is also done on the floor of the work-shop and approach roads of transportation. Fixed type water sprinklers along the constructed concrete roads have been provided. Roads are kept clean and wet.</li> <li><u>Direct Inject of reducing agents</u> : Our plant i.e. Blast Furnace is already based on technology of direct inject of reducing agents.</li> <li><u>Solid Waste/Hazardous Waste Management</u>: 100% generated BF granulated Slag is sold to the cement manufacturers on demand. Need not to study the possibility of slag transportation back into abandoned mines to fill the cavities. We do not generate tar sludge/ETP sludge. No hazardous waste is generated from this end. Hazardous waste in form of burnt mobil oil received from DG Set is used in smoothening of machineries.</li> <li><u>Water Conservation / Water Pollution</u> : Rain water is harvested to meet out the water requirement during lean season. Roof top rain water is recharged to ground to maintain the ground water table. Water consumption is in cooling of hot product (Pig Iron) 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 reused in dust suppression and greenbelt 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' norm.</li> <li><u>Installation of Continuous Stack Monitoring System</u>: We have installed continuous online stack monitoring system for dust emission(PM) monitoring, CO, NOx, SO<sub>2</sub> analyzer and PM(AAQ) with remote calibration facility and Water Flow Meter with Camera with 24 x 7 days connectivity. Continuous data transmitted to JSPCB and CPCB server during compliance operational period. Housekeeping is being maintained.</li> <li><u>To operate existing Pollution Control Equipment efficiently and to keep proper record of run hours, failure time and efficiently with immediate effect</u> : GCP is installed and works properly. Energy</li> </ol>



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-5-

Sl. No.	Conditions	Compliance
		<i>meter (installed separately for GCP) reading is taken day to day and record maintained.</i>
xii.	All the commitments made to the public during Public Hearing/Consultation meeting held on 10 <sup>th</sup> January, 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to Ministry's Regional Office at Bhubaneswar.	All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 10 <sup>th</sup> January, 2010 has been complied. Greenbelt has been developed to control emission. For fugitive emission control, fixed type water sprinklers are installed on concrete roads. Dry fog systems, wherever required have also been installed.
xiii.	At least 5% of the total cost of the project should be earmarked towards corporate social responsibility and item-wise details along-with time-bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.	As per time bound action plan we incurred total Rs.94.38 Lac and completed the CSR liability for this unit. Detail has been submitted earlier vide our previous compliance. Total expenditure towards CSR activities is now over.
xiv.	Risk and Disaster Management Plan along-with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB, CPCB within 3 months of issues of environment clearance letter.	Copy of On-Site Emergency Plan which consists Risk Disaster and Safety Audit Management Plan approved by the Chief Factory Inspector, Jharkhand has been submitted previously.
xv.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care crèche, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied. The unit is operational since Nov., 2010.  All infrastructures and facilities are provided to our existing workers.

**B) General Conditions :**

Sl. No.	Conditions	Compliance
i.	The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board and the State Government.	CTO granted bearing Ref No. JSPCB/HO/RNC/CTO-12633413/2022/845 dated 15.06.2022 by JSPCB is valid till 30.06.2025 and we are complying its conditions.
ii.	No further expansion or modifications in the plant shall be carried out without approval of the Ministry of Environment and Forests.	We have obtained 'No Increase in Pollution Load' Certificate dt.13.03.2023 from Environmental Auditor M/s. Vardan Environet, Gurgaon & verified by JSPCB for increasing installed production capacity of our MBF Plant from 39000 TPA to 67000 TPA by change in raw material mix

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-6-

Sl. No.	Conditions	Compliance
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		and process optimization, copy of the said certificate and Verification Letter No.B-2437 dt.20.10.2023 are enclosed. We are filing application for grant of Consent to Establish shortly.
iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 <sup>th</sup> May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	The gaseous emissions conforms as per standards notified by this Ministry. Online stack dust concentration (PM), CO, NO <sub>x</sub> monitoring system, SO <sub>2</sub> Analyzer & Water Flow Meter with Camera with 24x7 days connectivity to JSPCB and CPCB server have been installed. Offline AAQ parameters (12) are being monitored by NABL accredited laboratory, namely M/s. Kalyani Laboratories Pvt. Ltd., Bhubaneswar. <b>Monitoring Reports</b> for the compliance operational period are enclosed.
iv.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to the Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	As per guidance of JSPCB/MoEF, Ambient Air Quality Monitoring at four points and stack emission monitoring by NABL Laboratory is being done regularly. Monitoring report to the Ministry Regional Office including SPCB/CPCB is being submitted. <b>AAQ Monitoring Reports</b> for the compliance operational period are enclosed herewith also with a copy to SPCB/CPCB.
v.	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Our MBF plant is a dry processed except water use for cooling of hot pig iron, furnace and slag. The cooling water is kept in a closed circuit and reused for the same. No industrial waste water generated and discharged outside premises. We strictly maintain 'Zero Discharge' norm of water pollution control.
vi.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	We have provided noise level control system at all noise generation sources to keep the noise level within the prescribed limit. Noise monitoring report is submitted regularly. <b>NL Monitoring Report</b> for the compliance operational period are enclosed. Results are within prescribed limit.
vii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is done by arranging medical camp on six monthly basis and records maintained as per Factory Act.
viii.	The Company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides	Surface rain water harvesting is done. A chain of drain including reservoir of adequate capacity has been provided. Rain water so collected is used in

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-7-

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	recharging the ground water table.	greenbelt development and dust suppression. Roof top rain water harvesting for recharging the ground water is implemented to maintain ground water table.
ix.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in EIA/EMP report. Further, the Company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care, etc.	Please refer Specific Condition (xiii). We comply all environmental protection measures and safeguards as per EIA/EMP report and also providing jobs to local people resulting socio-economic development including community and educational development in surrounding villages, providing drinking water supply and health care, etc.
x.	Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	We have already incurred earmarked amount Rs.151.00 Lakh (Fixed) and fulfilled the conditions. Annual recurring expenditure comprising environmental monitoring, Running cost of Pollution Control Equipment, Greenbelt maintenance, cleaning of approach road as fixed has been incurred as per requirement. Detail as <b>Annexure-1</b> is enclosed.
xi.	A copy of clearance letter shall be sent by the proponent to concerned Panchyat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied much earlier. EC copy is available on our website for other bodies and public.
xii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Bhubaneswar, the respective Zonal Office of CPCB and the CECB. The criteria pollutant levels namely; PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at the convenient location near the main gate of the Company in the public domain.	We are uploading status of compliance of Environmental Clearance conditions along-with all monitoring data issued by NABL laboratory on Company's website and also submitting to your goodself.. Test Reports for the compliance operational period are enclosed. The criteria pollutant levels namely; PM <sub>10</sub> , CO, SO <sub>2</sub> and NO <sub>x</sub> (ambient levels as well as stack emissions) is monitored online with connectivity to SPCB, CPCB servers and also displayed at our main gate in public domain.

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-8-

Sl. No.	Conditions	Compliance
xiii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.	We submitted six monthly compliance reports regularly in the past. Status of the compliances for the compliance operational period including all monitored data (in hard copies) are being submitted to the Regional Office of MoEF & CC and the concerned CPCB / SPCB.
xiv.	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the Company along-with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF at Bhubaneswar by e-mail.	The environmental statement for financial year ending 31 <sup>st</sup> March, 2023 submitted to the State Pollution Control Board on 10.05.2023 and also uploaded on the website of the Company. Copy submitted with previous compliance report for six months ending on 31 <sup>st</sup> March, 2023.
xv.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Bhubaneswar.	Complied much earlier.
xvi.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Already complied much earlier. It is a running unit from 14 <sup>th</sup> November, 2010. Financial closure of our unit is 12.11.2010.

This is again to state here that we have installed all necessary pollution control equipment in our plant and online stack dust concentration (PM) monitoring system, CO, NO<sub>x</sub> monitoring system, SO<sub>2</sub>

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-9-

Analyzer, Water Flow Meter with Camera and also online AAQ monitoring within the premises with 24x7 days connectivity to JSPCB and CPCB servers.

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

Thanking you,  
Yours faithfully,

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

*Santosh Kumar*

(Mega Divn)

Authorized Signatory



Encl: As above

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

CC: The R.O., JSPCB, PTC Chowk, Hazaribagh (Jharkhand) - 825301

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

-All for information.

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EW461779183IN IVR:6987461779183  
SP MBC KOLKATA RMS <700001>  
Counter No:3,30/11/2023,15:35  
To:THE REGIONAL ,HAZARIBAGH  
PIN:825301, Hazaribagh HD  
From:BALMUKUND S,18 R N M ROAD  
Wt:163gms  
Amt:47.20(Cash)Tax:7.20

<Track on www.indiapost.gov.in>  
<Dial 18002666868> <Wear Masks, Stay Safe>

EW461779170IN IVR:6987461779170  
SP MBC KOLKATA RMS <700001>  
Counter No:3,30/11/2023,15:35  
To:THE ZONAL OFFICE,KOLKATA  
PIN:700107, Madurdaha SD  
From:BALMUKUND S,18 R N M ROAD  
Wt:165gms  
Amt:29.50(Cash)Tax:4.50

<Track on www.indiapost.gov.in>

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

**BALMUKUND****SPONGE & IRON PVT. LTD.  
( M E G A D V N . )**HEAD OFFICE : NEAR VISHWANATH NURSING HOME  
BAJRANG CHOWK, AT-BARMASIA, DIST/PO.: GIRIDIH-815301  
PHONE : 06532-250597  
E-mail : balmukund.sponge@gmail.com  
Website : www.balmukund.com  
CIN : U27310WB1999PTC266185Annexure-1

Year	Recurring Expenditure for Environment Protection (MBF)	Amount Rs. In Lakh
2023-24 (April-September)	Environmental Monitoring	0.93
	Running Cost of Pollution Control Equipments	1.434
	Greenbelt Development	5.40
	Total :	7.764

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

Authorized Signatory

**To Whom So Ever It May Concern**

We, Vardan Environet (NABET accredited EIA consultant) hereby certify that we have been engaged in carrying out assessment related to change in Pollution Load for Balmukund Sponge and Iron Pvt Ltd for their project entitled "Increase in production capacity of 65 m3 Mini Blast Furnace from 39000 TPA to 67000 TPA by using equipment & process optimization and change in raw material mix by Balmukund Sponge and Iron Private Limited located at village Manjhiladih, P.O. Gadisrirampur District Giridih, Jharkhand".


We have assessed and reviewed the information provided by Balmukund Sponge and Iron Private Limited for their existing operation and thorough study was undertaken to ascertain any changes in the existing operation and pollution load after the increasing the production capacity of Pig Iron in the existing Mini Blast Furnace.

Since the raw material mix proposed for enhancement of production quantity are of good quality (Low Ash content) than the existing raw materials. There is no additional technology involved in the manufacturing of Pig iron therefore, the existing air pollution control equipments are capable of handling pollution load after increase of pig iron production. However, the specific air pollution load will decrease when compared to air pollution load generated during production of Pig Iron from MBF, since the raw material used are of better quality with low ash content.

The wastewater generation is remains same when compared with data provided as per EC dated 28.07.2010 and hazardous waste generation shall be same as in the present conditions after the increase of pig iron production from MBF. The generation of solid waste will be managed by comprehensive Environmental Management Plan (EMP) to maximize the recycling and reuse of solid waste.

Hence, there will be 'No Increase in Pollution Load' due to the increase in production of Pig Iron from Mini Blast Furnace.

For VARDAN ENVIRONET

  
ANSHUL YADAV  
Partner



Place: Gurgaon

Date: 13.03.2023

Approvals & Certifications

• QCI-NABET Accredited EIA Consultant • MoEF&CC Recognized  
• CGWA Accredited • ISO 9001



Ref. No.: B-2437

Ranchi, Dated: - 20/10/2023

Verification Of Certificate On “ No Increase In Pollution Load” In Accordance With MoEF&CC, Govt. Of India Notification No. S.O. 236 (E) Dated 16.01.2020 and Notification No. No. S.O. 980 (E), Dated 02.03.2021 Submitted By M/s Balmukund Sponge And Iron Private Limited, At Village Manjhiladih, P.O. Gadisrirampur District Giridih, Jharkhand To Increase In Production Capacity Of Existing 65 M<sup>3</sup> Mini Blast Furnace From 39000 TPA To 67000 TPA By Using Equipment & Process Optimization And Change In Raw Material Mix.

1. Environmental Clearance (EC) issued by Ministry of Environment, Forests & Climate Change (MoEF& CC) vide MoEF&CC letter ref. no. F.No J-11011/870/2008-IA. II (I) dated 28.07.2010 for setting up to 65 m<sup>3</sup> Mini Blast Furnace for production of 39000 TPA Pig Iron.
2. Consent to Operate (CTO) issued by the Board vide ref. no. JSPCB/HO/RNC/CTO-12633413/2022/845 dated 15.06.2022 production of 39000 TPA Pig Iron, 274068 TPA MS billet, 246926 TPA MS Coil/TMT bar, 94000 TPA Beneficiated Iron Ore, 47000 TPA Induction Slag Grinding valid up to 30.06.2025.
3. Industry submitted the proposal on the PARIVESH portal on 13.03.2023
4. The MoEF&CC, Government of India has amended the EIA notification 14th September, 2006 by notification vide S.O. 980 (E), dated 02.03.2021 which stipulates “Any increase in production capacity in respect of processing or production or manufacturing sectors (listed against item numbers 2,3, 4 and 5 in the Schedule to this notification) with or without any change in (i) raw material-mix or (ii) product-mix or (ii) quantities within products or (ii) number of products including new products falling in the same category or (iv) configuration of the plant or process or operations in existing area or in areas contiguous to the existing area (for which prior environmental clearance has been granted) shall be exempt from the requirement of Prior Environmental Clearance provided that there is no increase in pollution load (derived on the basis of such Prior Environmental Clearance)”.
5. The Project Proponent has received No Increase In Pollution Load Certificate from the third- party auditor (i.e M/s Vardhan Environet, Gurgaon) for the proposal.
6. The proposal was discussed in the Technical cum Verification Committee meeting for issue of “No Increase of Pollution Load Certificate” held on 01.09.2023.

Considering the above the Committee recommended for issue of "No Increase of Pollution Load Certificate" to increase in production capacity of existing 65 m<sup>3</sup> Mini Blast Furnace from 39000 TPA to 67000 TPA by using equipment & process optimization and change in raw material mix with the overall production capacity shall remain the same as the existing level the following conditions:

- (i) The Proponent shall inform to the MoEF&CC, Govt. of India about verification of "No Increase of Pollution Load Certificate" Jharkhand to increase in production capacity of existing 65 m<sup>3</sup> Mini Blast Furnace from 39000 TPA to 67000 TPA by using equipment & process optimization and change in raw material mix with the overall production capacity shall remain the same as the existing level and take additional pollution control measures, if any as advised by the MoEF&CC, Govt. Of India.
- (ii) The Proponent shall upload the "No Increase of Pollution Load Certificate" for the proposal on the online portal developed by MoEF&CC, Govt. of India for No Increase in Pollution Load Certificate and shall submit the copy of screenshot of the same along with the application for Consent to Establish for the proposal.
- (iii) The Proponent shall to increase in production capacity of existing 65 m<sup>3</sup> Mini Blast Furnace from 39000 TPA to 67000 TPA by using equipment & process optimization and change in raw material mix with the overall production capacity shall remain the same as the existing level. Under no circumstances the Proponent shall install any other plant facilities and machines.
- (iv) The Proponent shall be allowed for trail run for 06 months for operation existing unit keeping overall production same as mentioned in the Environmental Clearance. During the trail run period, a joint inspection and/or monitoring shall be carried out twice jointly by the Regional Office, Head ad Office of The State Pollution Control Board, Jharkhand and the third- party auditor (i.e MECON) to check the adequacy of the existing pollution control measures for existing unit keeping overall production same as mentioned in the Environmental Clearance. The monitoring shall be carried out in full rated capacity. All the parameters submitted in the report of "No Increase of Pollution Load" by the Proponent to be verified during this monitoring. Based on the satisfactory performance of the existing pollution control measures, final Consent to Operate will be considered.
- (v) The Project Proponent shall take responsibility to satisfy itself about "No Increase of Pollution Load" as a result of changes, expansion or modernization, as the case

may be before under taking such changes or increase, and the project proponent shall be liable for action under the provisions of the Environment (Protection) Act, 1986 if on verification of facts or claim it is found that such change or expansion or modernization involves increase in pollution load. In such case, action will be taken against the 3<sup>rd</sup> Party Auditor for providing such false information/data.

(Yatindra Kumar Das)  
Member Secretary

To,

The Director,  
M/s Balmukund Sponge and Iron Private Limited,  
At village Manjhiladih, P.O. Gadisrampur,  
District Giridih, Jharkhand

## TEST REPORT

**Test Report No** : KLPL/6/23/ENVN/02309E **Issue Date** : 24-June-2023  
**Rerefrence** : -  
**Customer Name** : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION- MBF)  
**Address** : 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
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**Location & Date** : NEAR ADMINISTRATIVE OFFICE BUILDING, DT- 07.06.2023 TO 08.06.2023

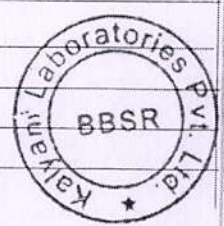
Sulphur Dioxide	µg/m <sup>3</sup>	80	18.20	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	34.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	84.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	48.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.74	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	32.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m <sup>3</sup>	400	14.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1.0	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m <sup>3</sup>	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	ng/m <sup>3</sup>	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

**Location & Date** : NEAR ELECTRIC SUB STATION, DT- 07.06.2023 TO 08.06.2023

Sulphur Dioxide	µg/m <sup>3</sup>	80	19.50	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	36.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	89.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	51.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.80	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	30.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m <sup>3</sup>	400	12.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1.0	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m <sup>3</sup>	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	ng/m <sup>3</sup>	20	4.00	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

**Location & Date** : NEAR LABOUR REST ROOM, DT- 07.06.2023 TO 08.06.2023

Sulphur Dioxide	µg/m <sup>3</sup>	80	17.40	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	32.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	81.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	46.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017





# KALYANI LABORATORIES PVT. LTD.

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

## TEST REPORT

**Test Report No** : KLPL/6/23/ENVN/02309E **Issue Date** : 24-June-2023  
**Rerefrence** : -  
**Customer Name** : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION- MBF)  
**Address** : 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 <sup>3</sup>	04	0.82	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	28.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m <sup>3</sup>	400	16.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1.0	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m <sup>3</sup>	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	ng/m <sup>3</sup>	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

**Location & Date** : NEAR WESTERN BOUNDARY DT- 07.06.2023 TO 08.06.2023

Sulphur Dioxide	µg/m <sup>3</sup>	80	21.40	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	35.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	89.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	50.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.86	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	33.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m <sup>3</sup>	400	13.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1.0	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m <sup>3</sup>	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	ng/m <sup>3</sup>	20	4.00	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Remarks :

Any unusual feature observed during determination :

Analysed By

D Arukha

Mr. Digambar Arukha  
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal

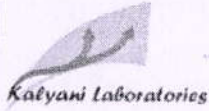
Dr. Debasis Biswal  
For Kalyani Laboratories Pvt. Ltd.

End of Test Report

KLPL- 363238A

Page 2 of 2





# KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENNIUM 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**

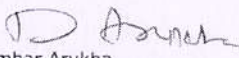
**Sample Condition** : SEALED IN 1LTR PET BOTTLE  
**Sample Identification** : **DOMESTIC EFFLUENT WATER** **Sampling Date:** 10-June, 2023  
**Batch No , Lot No** : NA **MFG Date:** NA **EXP Date:** NA  
**Received Quantity** : 1LTR X 1 **Place of Collection:** OUTLET OF ADMINISTRATIVE BUILDING  
**Sample Collected By** : BY KLPL (MR. SUDHIR BARIK)  
**Ref. To Sampling Procedure:** KLPL/QSP-07

Parameters	Unit	Requirement	Result	Test Method	
<b>CHEMICAL PARAMETER</b>					
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
<b>PHYSICAL PARAMETER</b>					
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 :

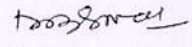
Any unusual feature observed during determination :

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/02309F **Issue Date** : 24-June-2023  
**Reference** : -  
**Customer Name** : BALMUKUND SPONGE & IRON (P) LIMITED  
**Address** : MEGA DIV. (MBF-PIG IRON PLANT) 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
<b>Location &amp; Date</b>	<b>: NEAR LOADING POINT OF FINISHED PRODUCT YARD DT- 08.06.2023</b>			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1670	KLPL/SOP/AIR-11:2012
<b>Location &amp; Date</b>	<b>: NEAR MBF PLANT WORK SHOP DT- 08.06.2023</b>			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1792	KLPL/SOP/AIR-11:2012
<b>Location &amp; Date</b>	<b>: NEAR SOLID WASTE DUMP AREA DT- 08.06.2023</b>			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1646	KLPL/SOP/AIR-11:2012
<b>Location &amp; Date</b>	<b>: NEAR UNLOAD POINT OF RAW MATERIAL YARD DT- 08.06.2023</b>			
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1855	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 \*\*\*\*\*

KLPL- 363236A Page 1 of 1



# KALYANI LABORATORIES PVT. LTD.

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

## TEST REPORT

<b>Test Report No</b>	: KLPL/6/23/ENVN/02309J	<b>Issue Date</b>	: 24-June-2023
<b>Rerefrence</b>	: -		
<b>Customer Name</b>	: BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)		
<b>Address</b>	: (MBF UNIT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND		
<b>Date of receipt</b>	: 12-June, 2023	<b>Commenced On:</b>	12-June, 2023
		<b>Completion On:</b>	14-June, 2023
<b>Sample Name</b>	: NOISE (DAY TIME)		
<b>Sample Condition</b>	: --		
<b>Sample Collected By</b>	: By KLPL(MR. SUDHIR KUMAR BARIK)		
<b>Ref. To Sampling Procedure:</b>	KLPL/NOISE/SOP-23		

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date</b>	: NEAR ADMINISTRATIVE OFFICE BUILDING, DT- 07.06.2023			
Noise Level Indl. Area (Day)	dB	75	61.8	IS 9989:1981 (RA 2014):2014
<b>Location &amp; Date</b>	: NEAR RAW MATERIAL YARD (MBF UNIT), DT- 07.06.2023			
Noise Level Indl. Area (Day)	dB	75	61.5	IS 9989:1981 (RA 2014):2014
<b>Location &amp; Date</b>	: NEAR PIG IRON MANUFACTURING UNIT, DT- 07.06.2023			
Noise Level Indl. Area (Day)	dB	75	63.7	IS 9989:1981 (RA 2014):2014
<b>Location &amp; Date</b>	: NEAR LABOUR REST ROOM, DT- 07.06.2023			
Noise Level Indl. Area (Day)	dB	75	57.5	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 \*\*\*\*\*

KLPL- 363232A<sup>2</sup> 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/02309K **Issue Date** : 24-June-2023  
**Rerefrence** : -  
**Customer Name** : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)  
**Address** : (MBF 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
<b>Location &amp; Date</b>	: NEAR ADMINISTRATIVE OFFICE BUILDING, DT- 07.06.2023 & 08.06.2023			
Noise Level Indl. Area (Night)	dB	70	59.9	IS 9989:1981 (RA 2014):2014
<b>Location &amp; Date</b>	: NEAR RAW MATERIAL YARD (MBF UNIT), DT- 07.06.2023 & 08.06.2023			
Noise Level Indl. Area (Night)	dB	70	58.4	IS 9989:1981 (RA 2014):2014
<b>Location &amp; Date</b>	: NEAR PIG IRON MANUFACTURING UNIT, DT- 07.06.2023 & 08.06.2023			
Noise Level Indl. Area (Night)	dB	70	62.5	IS 9989:1981 (RA 2014):2014
<b>Location &amp; Date</b>	: NEAR LABOUR REST ROOM, DT- 07.06.2023 & 08.06.2023			
Noise Level Indl. Area (Night)	dB	70	56.2	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

*Debasis Biswal*

Dr. Debasis Biswal  
For Kalyani Laboratories Pvt. Ltd.



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

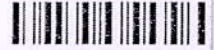
KLPL- 363231A



# KALYANI LABORATORIES PVT. LTD.

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

## TEST REPORT



**Test Report No** : KLPL/6/23/ENVN/02309P **Issue Date** : 24-June, 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** : 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
<b>Location &amp; Date</b>	: <b>MINI BLAST FURNACE STACK, DATE:08.06.2023</b>			
Particulate Matter	mg/Nm <sup>3</sup>	50	39	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm <sup>3</sup>	--	18	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg kelvin	--	136	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	6.84	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	--	10	IS 11255(part-2):1985,RA:2019
Weather condition	--	--	PARTLY CLOUDY	--
Height of stack from ground level	In Meter	--	38	--
Inner dimension of stack	In Meter	--	1.2	--
Height of port hole	In Meter	--	12	--
Atmospheric temperature	Deg kelvin	--	39	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm <sup>3</sup> / hr	--	20,274	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.790	IS 11255(Part-1):1985,RA:2019
Name of fuel & quantity used per shift	--	--	ELECTRICITY(ELECTRIC FURNACE)	--
Production capacity	--	--	110MT/DAY(PIG IRON)	--
Stack attached to	--	--	GCP & BAG FILTER	--

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- 363226A of 1



# KALYANI LABORATORIES PVT. LTD.

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



TC-12063

## TEST REPORT

**NABL ULR NO** : TC1206323000018160  
**Test Report No** : KLPL/9/23/ENVN/02529 **Issue Date** : 22-Sept-2023  
**Rerefrence** : -  
**Customer Name** : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION- MBF)  
**Address** : 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 ADMINISTRATIVE OFFICE BUILDING, DT- 06.09.2023 TO 07.09.2023

Sulphur Dioxide	µg/m <sup>3</sup>	80	16.60	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	33.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	79.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	42.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.70	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	32.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m <sup>3</sup>	400	18.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017

Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m <sup>3</sup>	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	ng/m <sup>3</sup>	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

**Location & Date** : NEAR ELECTRIC SUB STATION, DT- 06.09.2023 TO 07.09.2023

Sulphur Dioxide	µg/m <sup>3</sup>	80	18.00	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	34.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	81.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	44.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.74	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	34.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m <sup>3</sup>	400	16.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017

Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m <sup>3</sup>	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	ng/m <sup>3</sup>	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

**Location & Date** : NEAR LABOUR REST ROOM, DT- 06.09.2023 TO 07.09.2023

Sulphur Dioxide	µg/m <sup>3</sup>	80	17.40	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	32.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	78.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	41.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017



KLPL- 364678A



# KALYANI LABORATORIES PVT. LTD.

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

## TEST REPORT

**NABL ULR NO** : TC1206323000018160  
**Test Report No** : KLPL/9/23/ENVN/02529 **Issue Date** : 22-Sept-2023  
**Reference** : -  
**Customer Name** : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION- MBF)  
**Address** : 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 <sup>3</sup>	04	0.72	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	32.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m <sup>3</sup>	400	20.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m <sup>3</sup>	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	ng/m <sup>3</sup>	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
<b>Location &amp; Date</b> : NEAR WESTERN BOUNDARY DT- 06.09.2023 TO 07.09.2023				
Sulphur Dioxide	µg/m <sup>3</sup>	80	18.50	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m <sup>3</sup>	80	36.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m <sup>3</sup>	100	82.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m <sup>3</sup>	60	45.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m <sup>3</sup>	04	0.76	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m <sup>3</sup>	180	36.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m <sup>3</sup>	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m <sup>3</sup>	400	22.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m <sup>3</sup>	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	ng/m <sup>3</sup>	20	4.00	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

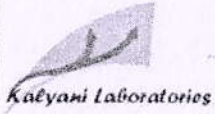
Analysed By

Mr. Digambar Arukha  
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

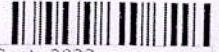
Dr. Debasis Biswal  
For Kalyani Laboratories Pvt. Ltd.



# KALYANI LABORATORIES PVT. LTD.

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

## TEST REPORT



**Test Report No** : KLPL/9/23/ENVN/02529 **Issue Date** : 22-Sept, 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-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
<b>Location &amp; Date</b> : NEAR ADMINISTRATIVE OFFICE BUILDING, DT- 06.09.2023 TO 07.09.2023				
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
<b>Location &amp; Date</b> : NEAR ELECTRIC SUB STATION, DT- 06.09.2023 TO 07.09.2023				
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
<b>Location &amp; Date</b> : NEAR LABOUR REST ROOM, DT- 06.09.2023 TO 07.09.2023				
Benzene (C6 H6)	µg/m <sup>3</sup>	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
<b>Location &amp; Date</b> : NEAR WESTERN BOUNDARY DT- 06.09.2023 TO 07.09.2023				
Benzene (C6 H6)	µg/m <sup>3</sup>	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 \*\*\*\*\*

KLPL- 364876A<sup>1</sup>



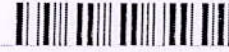


# KALYANI LABORATORIES PVT. LTD.

PLOT NO-7&944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



## TEST REPORT



TC-12063

**NABL ULR NO** : TC120632300001796  
**Test Report No** : KLPL/9/23/WATER/09498 **Issue Date** : 22-Sept-2023  
**Reference** : -  
**Customer Name** : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)  
**Address** : At.: CHATRO - TUNDI ROAD, GIRIDIH, JHARKHAND  
**Date of receipt** : 11-Sept, 2023 **Test Commenced On:** 11-Sept, 2023 **Test Completion On:** 15-Sept, 2023  
**Sample Description** : WASTE WATER

**Sample Condition** : SEALED IN 1LTR PET BOTTLE  
**Sample Identification** : DOMESTIC EFFLUENT WATER **Sampling Date:** 10-Sept, 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 KUMAR BARIK) DT-06.09.2023  
**Ref. To Sampling Procedure:** KLPL/QSP-07

Parameters	Unit	Requirement	Result	Test Method
<b>CHEMICAL PARAMETER</b>				
i Oil & Grease	mg/l	--	<1.0	APHA 24th Edition (5520B),2023
ii Total Dissolved Solid	mg/l	--	274	APHA 24th Edition (2540 C), 2023
iii Chemical Oxygen Demand	mg/l	--	45	APHA 24th Edition (5220 B), 2023
iv Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l	--	13	APHA 24th Edition 2012(5210 B), 2023
v Total Suspended Solids	mg/l	--	28	APHA 24th Edition (2540 D),2023
<b>PHYSICAL PARAMETER</b>				
i Colour	True col. Unit	--	<1.0	APHA 24th Edition (2120 B), 2023
ii pH Value	---	--	7.4	APHA 24th Edition (4500-H+-B), 2023

Remarks : --

The results relate only to samples tested and test parameters

Any unusual feature observed during determination : NIL

Analysed By

Mr. Digambar Arukha  
For Kalyani Laboratories Pvt. Ltd



Authorized Signatory

Dr. Debasis Biswal  
For Kalyani Laboratories Pvt. Ltd

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



# KALYANI LABORATORIES PVT. LTD.

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

## TEST REPORT



**Test Report No** : KLPL/9/23/ENVN/02529A **Issue Date** : 22-Sept-2023  
**Rerefrence** : -  
**Customer Name** : BALMUKUND SPONGE & IRON (P) LIMITED  
**Address** : MEGA DIV. (MBF-PIG IRON PLANT) At.: CHATRO-TUNDI ROAD, GIRIDIH, JHARKHAND  
**Date of receipt** : 11-Sept-2023 **Commenced On:** 11-Sept-2023 **Completion On:** 14-Sept-2023

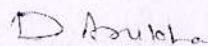
**Sample Name** : AIR QUALITY MONITORING (FUGITIVE DUST)  
**Sample Condition** : FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG  
**Sample Collected By** : By KLPL(MR. SUDHIR KUMAR BARIK)  
**Ref. To Sampling Procedure** : KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
<b>Location &amp; Date</b> : NEAR LOADING POINT OF FINISHED PRODUCT YARD DT- 06.09.2023				
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1644	KLPL/SOP/AIR-11:2012
<b>Location &amp; Date</b> : NEAR MBF PLANT WORK SHOP DT- 06.09.2023				
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1768	KLPL/SOP/AIR-11:2012
<b>Location &amp; Date</b> : NEAR SOLID WASTE DUMP AREA DT- 06.09.2023				
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1570	KLPL/SOP/AIR-11:2012
<b>Location &amp; Date</b> : NEAR UNLOADING POINT OF RAW MATERIAL YARD DT- 06.09.2023				
Fugitive Dust	$\mu\text{G}/\text{M}^3$	2000	1692	KLPL/SOP/AIR-11:2012

**Remarks** : -

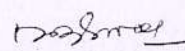
Any unusual feature observed during determination :NIL  
Requirement Is As Per Standard Specification NAAQS:2009

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- 364674A1



# KALYANI LABORATORIES PVT. LTD.

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



TC-12063

## TEST REPORT

NABL ULR NO : TC1206323000018163



Issue Date : 22-Sept-2023

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

Rerefrence : -

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

Address : (MBF 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
<b>Location &amp; Date : NEAR ADMINISTRATIVE OFFICE BUILDING, DT- 06.09.2023</b>				
Noise Level Indl. Area (Day)	dB(A)	75	61.5	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR RAW MATERIAL YARD (MBF UNIT), DT- 06.09.2023</b>				
Noise Level Indl. Area (Day)	dB(A)	75	60.8	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR PIG IRON MANUFACTURING UNIT, DT- 06.09.2023</b>				
Noise Level Indl. Area (Day)	dB(A)	75	64.6	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR LABOUR REST ROOM, DT- 06.09.2023</b>				
Noise Level Indl. Area (Day)	dB(A)	75	59.9	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 \*\*\*\*\*

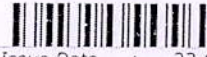


# KALYANI LABORATORIES PVT. LTD.

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



## TEST REPORT



TC-12063

NABL ULR NO : TC1206323000018164

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

Issue Date : 22-Sept-2023

Rerefrence : -

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

Address : (MBF 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
<b>Location &amp; Date : NEAR ADMINISTRATIVE OFFICE BUILDING, DT- 06.09.2023</b>				
Noise Level Indl. Area (Night)	dB(A)	70	58.4	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR RAW MATERIAL YARD (MBF UNIT), DT- 06.09.2023</b>				
Noise Level Indl. Area (Night)	dB(A)	70	57.8	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR PIG IRON MANUFACTURING UNIT, DT- 06.09.2023</b>				
Noise Level Indl. Area (Night)	dB(A)	70	59.6	IS 9989:1981 (RA 2014)
<b>Location &amp; Date : NEAR LABOUR REST ROOM, DT- 06.09.2023</b>				
Noise Level Indl. Area (Night)	dB(A)	70	56.9	IS 9989:1981 (RA 2014)

Remarks : -

Any unusual feature observed during determination : NIL

Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

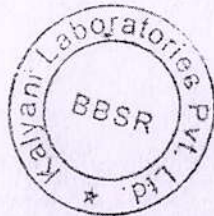
Authorised Signatory

*D Arukha*

*Dr. Debasis Biswal*

Mr. Digambar Arukha  
For Kalyani Laboratories Pvt. Ltd.

Dr. Debasis Biswal  
For Kalyani Laboratories Pvt. Ltd.



End of Test Report

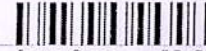


# KALYANI LABORATORIES PVT. LTD.

Plot No-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



## TEST REPORT



TC-12063

**NABL ULR NO** : TC1206323000018169  
**Test Report No** : KLPL/9/23/ENVN/02529J **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
<b>Location &amp; Date</b> : MINI BLAST FURNACE STACK, DATE:07.09.2023				
Particulate Matter	mg/Nm <sup>3</sup>	50	32	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm <sup>3</sup>	--	16	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg C	--	124	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	6.95	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	--	42	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	--	1.2	--
*Height of port hole	In Meter	--	12	--
Atmospheric temperature	Deg C	--	32	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm <sup>3</sup> / hr	--	21,222	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.68	IS 11255(Part-1):1985,RA:2019
*Name of fuel & quantity used per shift	--	--	ELECTRICITY(ELECTRIC FURNACE)	--
*Production capacity	--	--	110MT/DAY(PIG IRON)	--
*Stack attached to	--	--	FURNACE THROUGH POLLUTION CONTROL SYSTEM (GCP & BAG FILTER)	--

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.