

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 : 0 6 5 3 2 - 2 5 0 5 9 7
E-mail : balmukund.sponge@gmail.com
Website : www.balmukund.com
CIN : U 2 7 3 1 0 W B 1 9 9 9 P T C 2 6 6 1 8 517th May, 2024EW496513376IN IVR:6987496513376
SP HBC KOLKATA RMS <700001>
Counter No:3,21/05/2024,14:06
To:THE ZONAL OFF,INTEGRATED REGIO
PIN:834002, Doranda HD
From:BSIPL MEGA DN,KOLKATA
Wt:193gms
Amt:47.20,Tax:7.20,Amt.Paid:47.00(Cash)
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks, Stay Safe>

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

Sub : **EC compliance report for the period from October, 2023 to March, 2024 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.28th July, 2010 for compliance period from 01st October, 2023 to 31st March, 2024 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 _x and SO ₂ 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 ³ . All other parameters namely CO, NO _x and SO ₂ are also being maintained within prescribed limits and data is being transmitted to the server of CPCB and JSPC Board during compliance operational period as per direction. Data are available on server may be verified. Stack emission is also monitored quarterly by M/s. Kalyani Laboratories Pvt. Ltd., Bhubaneswar (a NABL laboratory), results has been shown in their AAQ Monitoring Report on 12 parameters enclosed herewith for compliance operational period. We have installed dust catchers and wet ventury scrubbers to control the fugitive emissions at work zone within the prescribed standards. Dry fog system is already installed and is being operated efficiently as previously informed and photographs submitted to the MoEF & CC authorities.
ii.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R.No.826(E) dated 16 th November, 2009 should be followed.	The National Ambient Air Quality Standards issued by the Ministry vide GSR No.826 (E) dated 16 th 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 ₂ , CO & NO _x have also been carried out during the compliance operational period by above said NABL laboratory. AAQ Monitoring Report for compliance operational period are enclosed.

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

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CIN : U27310WB1999PTC266185

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

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Sl. No.	Conditions	Compliance
		<p>Fugitive emission from vehicular movement is controlled by water sprinkling and dust catcher and is monitored by installed online PM monitoring system.</p> <p>Monitoring report of Fugitive Emission for the compliance operational period enclosed.</p>
v.	Permission for drawl of 10 m/hr of water shall be obtained from the Central Ground Water Board/Central Ground Water Authority whichever may be applicable in this case.	Permission from CGWA for drawl of water has been obtained vide NOC No.21-4(166) MER/CGWA/2013-396 dt.04.03.2014. Renewal of NOC has been granted with validity till 03.03.2025 vide NOC No. CGWA/NOC/IND/REN/3/2022/7357(Copy submitted with March, 2023 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 followed 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 7743.454 MT generated from blast furnace has been sold to cement manufacturers on demand. They carry it in eco-friendly manner without affecting surroundings.
x.	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash shall be provided to cement and brick manufacturers for further utilization and 'Memorandum of Understanding' shall be submitted to the Ministry's Regional Office at Bhubaneswar.	No fly ash or bottom ash is generated during manufacturing of Pig Iron.

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Sl. No.	Conditions	Compliance
xi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for Steel Plants should be implemented.	Recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants is implemented and submit point-wise compliance in Annexure-2 enclosed herewith for compliance operational period.
xii.	All the commitments made to the public during Public Hearing/Consultation meeting held on 10 th 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 th January, 2010 has been complied and compliance report submitted. Greenbelt has been developed to control emission. For fugitive emission control, fixed type water sprinklers are installed on concrete roads. Dry fog systems, wherever required have also been installed.
xiii.	At least 5% of the total cost of the project should be earmarked towards corporate social responsibility and item-wise details along-with time-bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.	As per time bound action plan we incurred total Rs.94.38 Lac and completed the CSR liability for this unit. Detail has been submitted earlier vide our previous compliance. Total expenditure 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 &

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Sl. No.	Conditions	Compliance
		verified by JSPCB for increasing installed production capacity of our MBF Plant from 39000 TPA to 67000 TPA by change in raw material mix process optimization, copy of the said certificate and JSPCB Verification Letter No.B-2437 dt.20.10.2023 has been submitted vide previous EC compliance report. We also obtained CTE from JSPCB bearing Ref.No.JSPCB/HO/RNC/ CTE-17713231/2024/ 177 dt.31.03.2024, copy enclosed for your reference and record. Machinery optimization is now under process as per our proposal and JSPCB direction.
iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 th 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 _x monitoring system, SO ₂ 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. Monitoring Reports 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 ₁₀ , SO ₂ and NO _x 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. AAQ Monitoring Reports 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 th May, 1993 and 31 st 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 again and again. No industrial waste water generated and discharged outside premises. We strictly maintain 'Zero Discharge' norm of water pollution control.
vi.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under	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. NL Monitoring Report for the compliance operational period are enclosed . Results are within prescribed limit.

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Sl. No.	Conditions	Compliance
	EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	
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 recharging the ground water table.	Surface rain water harvesting is done. A chain of drain including reservoir of adequate capacity has been provided. Rain water so collected is used in greenbelt development and dust suppression. Roof top rain water harvesting for recharging the ground water is already implemented to maintain ground water table.
ix.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in EIA/EMP report. Further, the Company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care, etc.	Please refer Specific Condition (xiii). We comply all environmental protection measures and safeguards as per EIA/EMP report and also providing jobs to local people resulting socio-economic development including community and educational development in surrounding villages, providing drinking water supply and health care, etc.
x.	Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	We have already incurred earmarked amount Rs.151.00 Lakh (Fixed) and fulfilled the conditions. Annual recurring expenditure comprising environmental monitoring, Running cost of Pollution Control Equipment, Greenbelt maintenance, cleaning of approach road as fixed has been incurred as per requirement. Detail as Annexure-1 is enclosed.
xi.	A copy of clearance letter shall be sent by the proponent to concerned Panchyat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied much earlier. EC copy is available on our website for other bodies and public.
xii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Bhubaneswar, the respective	We are uploading status of compliance of Environmental Clearance conditions along-with all monitoring data issued by NABL laboratory on Company's website and also submitting to your goodself. Test Reports for the compliance operational period are enclosed. The criteria pollutant levels namely; PM ₁₀ , CO, SO ₂ and

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Sl. No.	Conditions	Compliance
	Zonal Office of CPCB and the CECB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ and NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at the convenient location near the main gate of the Company in the public domain.	NO _x (ambient levels as well as stack emissions) is monitored online with connectivity to SPCB, CPCB servers and also displayed at our main gate in public domain.
xiii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.	We submitted six monthly compliance reports regularly in the past. Status of the compliances for 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 st 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 st March, 2024 submitted to the State Pollution Control Board by Speed Post and also uploaded on the website of the Company. Copy of the said Environmental Statement is enclosed herewith for your reference and record.
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 http://envfor.nic.in . 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 th November, 2010. Financial closure of our unit is 12.11.2010.

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This is again to state here that we have installed all necessary pollution control equipment in our plant and online stack dust concentration (PM) monitoring system, CO, NO_x monitoring system, SO₂

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

Authorized Signatory



Encl: As above

CC: The Member Secretary, JSPCB, T.A. Division Bldg. (Ground Floor), HEC Complex, Dhurwa, Ranchi-834004.
CC: The Regional Officer, JSPCB, PTC Chowk, Hazaribagh (Jharkhand)-825301.
CC: The Zonal Office, CPCB, Southern Conclave, Block 502, 5th and 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107

-All for information.

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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 coke oven plant in the premises.
2. Pig Iron Plant: To minimize fugitive emission we have concreted shop floor, RM & Finished goods shed, also installed Dust catcher, bag filter, dry fog systems, fixed type water sprinklers. Besides, manual water sprinkling (by water Tankers) is also done on the floor of the work-shop and approach roads of transportation. Fixed type water sprinklers along the constructed concrete roads have been provided. Roads are kept clean and wet.
3. Direct Inject of reducing agents : Our plant i.e. Blast Furnace is already based on technology of direct inject of reducing agents.
4. Solid Waste/Hazardous Waste Management: 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. We have obtained Hazardous Waste Authorization from JSPCB for disposing burnt mobil oil in the manner described.
5. Water Conservation / Water Pollution : Rain water is harvested to meet out the water requirement during lean season. Roof top rain water is recharged to ground to maintain the ground water table. Water consumption is in cooling of hot product (Pig Iron) during operational period only. Cooling water is kept in closed circuit and reused again and again. Domestic waste water is treated by septic tank followed by soak-pit and reused in dust suppression and greenbelt development. Ground water consumption is less than the prescribed standard for the steel plant. No water pollution exists in our plant. We strictly maintain 'Zero Discharge' norm.
6. Installation of Continuous Stack Monitoring System: We have installed continuous online stack monitoring system for dust emission(PM) monitoring, CO, NOx, SO₂ analyzer and PM₁₀ (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.
7. Housekeeping is being maintained in good condition by placing goods at appropriate places.

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

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

8. To operate existing Pollution Control Equipment efficiently and to keep proper record of run hours, failure time and efficiently with immediate effect : GCP is installed and works properly. Energy meter (installed separately for GCP) reading is taken day to day and record maintained. Stack emission monitoring is being done online by connecting system 24x7 days to CPC and SPC Board's servers and manually by NABL laboratory namely M/s. Kalyani Laboratories Pvt. Ltd., Bhubaneswar. Manual monitoring reports for 03rd and 04th quarters of the year 2023-24 for stack emission monitoring are enclosed with the compliance report. Results are within the prescribed limit. EC Compliance Report alongwith quarterly monitoring test reports is also being submitted to CPCB and JSPCB half-yearly.

For Balmukund Sponge & Iron Pvt. Ltd.

(Mega Division)



Santosh Kumar

Authorized Signatory

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

Year	Recurring Expenditure for Environment Protection (MBF)	Amount Rs. In Lakh
2023-24 (October, 2023- March, 2024)	Environmental Monitoring	0.93
	Running Cost of Pollution Control Equipments	1.44
	Greenbelt Development	2.70
	Total :	5.07

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



JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004
Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No.: JSPCB/HO/RNC/CTE-17713231/2024/177

Dated : 2024-03-31

Consent to Establish (CTE) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

1. Reference: Application (s) No.- 17713231 / dated : 29/12/2023 of BALMUKUND SPONGE & IRON PVT. LTD.(Mega Division), Om Prakash Agrawal for consent under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

2. Documents Relied Upon:

- (a) The content of Environmental Clearance (EC), vide ref. no.
 - (i) F. No.J-1101/870/2008-IA.II(I), dated 28.07.2010;
 - (ii) EC/SEIAA/2013-14/297/2014/1525, Dated 25.08.2015;
 - (iii) EC/SEIAA/2021-22/2167/2021/67, dated 15.07.2021.
- (b) The content of Consent to Establish (CTE), vide Ref. No.
 - (i) N-356, dated 13.06.2005;
 - (ii) 3576, dated 18.07.2008;
 - (iii) B-4109 dated 16.10.2015;
 - (iv) JSPCB/HO/RNC/CTE-10840052/2021/209, dated 28.09.2021.
- (c) The content of previous Consent to Operate (CTO), vide ref. no. JSPCB/HO/RNC/CTO-12633413/2022/845, dated 15.06.2022 valid till 30.06.2025 for the production of Pig Iron- 39000 TPA, MS Billet- 2,74,068 TPA, MS Coil/TMT Bar- 2,46,926 TPA, Beneficiated Iron Ore 94000 TPA, Induction Slag Grinding- 47000 TPA (as per EC).
- (e) The content of NOC for groundwater withdrawal from the CGWA issued vide NOC No. CGWA/NOC/IND/REN/3/2022/7357 valid from 04/03/2022 to valid up to 03/03/2025 for fresh water 120 m³/day.
- (f) The content of self certificate regarding procurement of raw material from valid sources.
- (g) The content of certificate released by the Board for "No Increase in Pollution Load" vide ref. no. B-2437, dated 20.10.2023.
- (h) The content of Inspection Report (IR), vide ref. no. 137, dated 30.01.2024.(b)

3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to establish the project in Mauza- MANJHILADIH, P S -GIRIDIH, District-GIRIDIH as follows:

Project	Site-Area	Investment (Rs)/ Year	Product & Capacity	Period of CTE
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	Plot Nos.	Area			
In Expansion	Khata No. : 33,38,39,161,1 62,163,164 Khesra No. : 925,927,939,94 0-958,960	10.665 Ha	(9740 + 310)= 9780 Lacs (after expansion)	Pig Iron- from 39000 TPA to 67000 TPA	Date of issue to one year

(A) Specific Conditions:

1. That, the occupier shall operate and maintain the fume extraction system with bag filters at the plant site.
2. That, the proponent shall do regular cleaning and wetting of the ground within the premises.
3. That, the occupier shall do transporting within the covered vehicles.
4. That, the occupier shall keep the waste water in close circuit and maintain zero liquid discharge.
5. That, the occupier shall utilize solid waste entirely as per Solid Waste Management Rules' 2016.
6. That, the occupier shall install, operate and maintain fixed type water sprinklers regularly.
7. That, the occupier shall maintain proper housekeeping within the premises.
8. That, the occupier shall obtain authorization under Hazardous Waste Management Rules, 2016.
9. That, the occupier shall comply the recommendations made in charter for Corporate Responsibility for Environment Protection.
10. That, the unit shall ensure regular transmission of online data of all the parameters including So₂ parameter to the server of the Board.
11. That, the occupier shall operate and maintain atleast four ambient air quality monitoring station in the downward direction as well as where maximum ground level concentration of PM 10, SO₂ and NO_x are anticipated in consultation with the Board.
12. That, the occupier shall maintain pucca road within the premises.
13. That, the proponent shall maintain the fugitive emission within the prescribed limit.

14. That, the proponent shall operate and maintain dry fog system at feeding and transfer points in iron ore beneficiation plant.
15. That, the occupier shall operate and maintain the ESP, dust catcher and bag filters to keep the emission levels within the prescribed limit.
16. That, the occupier shall ensure hot gases to be passed through Dust Settling chamber and thereafter after burning chamber.
17. That, the occupier shall maintain on line stack emission monitoring system and shall ensure connectivity for transmission of data to CPCB & JSPCB server regularly.
18. That, the occupier shall obtain NOC from CGWA/SGWD for withdrawal of water from the ground water source.
19. That, the occupier shall keep the raw material in proper shedded area or cover with tarpaulin to minimize fugitive emission.
20. That, the occupier shall develop greenery in an area equal to 33 % of the plant area and shall maintain the same.
21. That, the occupier shall submit environmental statement every year be 30th September.
22. That, the occupier shall adhere to Zero Liquid Discharge.
23. That, the occupier shall construct garland drain and collection pits for each stock pile to arrest the runoff in the event of heavy rain.
24. That, the occupier shall construct, operate and maintain the rain water harvesting system.
25. That, the occupier shall comply all the conditions of EC and this CTE and submit its report to the Board at the time of application made for CTO.

(B) General Conditions :

- (1) That, the occupier shall construct pucca (i) minimum ten feet high boundary wall and (ii) approach road and internal roads and shall keep the premises neat and clean and tidy.

(2) That, the occupier shall install comprehensive enclosure (s) to cover the places of unloading of raw materials, the equipments of their processing & transferring, the places of loading of products, by products and wastes for prevention of fugitive emission and shall install such automatic inbuilt system(s) that in house dust/ gases collect(s) and undergo (es) cleaning and clean air goes out.

(3) That, the occupier shall install such automatic inbuilt system(s) that process flue gas(es) / process gas(es) and undergo(es) cleaning and clean air go(es) out through the chimney(s), having height(s) as per Central Pollution Control Board norm.

(4) That, the occupier shall have D G Set(s) of the standard as laid in the Environment (protection) Rules, 1986 and shall install it (them) within acoustic enclosure (s) and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm .

(5) That, the occupier shall impart treatment as per Central Pollution Control Board text to wastewater and shall keep process effluent in close-circuit and effluent from other sources in conformity with the standard (s).

(6) That, the occupier shall install Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge.

(7) That, the occupier shall create new water body (ies) / remove deposit(s) of existing water body(ies) and nearby stream(s) and pond(s) and shall maintain the wholesomeness of water.

(8) That, the occupier shall grow greenery in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.

(9) That, this CTE is valid subjected to the validity of mining Lease / Mining Plan / Ecofriendly / Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.

(10) That, this CTE is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time being in force, rests with the industry/ unit/ occupier.

(11) That, this CTE shall not in any way, adversely affect or jeopardize the legal proceeding , if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.

(12) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules there under.

4. **That, this CTE shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.**
5. **That, this CTE is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTE will be revoked if any of the information/ documents/ certificates/ undertaking given by the occupier is found false/fictitious/forged in future.**
6. **This order shall be valid subject to compliance of all other legal requirements applicable to the unit.**

7. The State Board reserves the right to revoke, withdraw or make any reasonable variation / change / alteration in condition of this consent.

Yatindra
Kumar
Das

Digitally signed
by Yatindra
Kumar Das
Date: 2024.03.31
16:09:40 +05'30'

This is issued with the approval of the competent authority

[Y. K. Das]
Member Secretary

Memo No. : JSPCB/HO/RNC/CTE-
17713231/2024/177

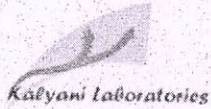
Dated : 2024-03-31

Copy to : M/s Balmukund Sponge & Iron Pvt. Ltd. (Mega Division), At-Manjhiladih, Gadisrirampur, Giridih (Jharkhand)-815302/ Director of Industries, Government of Jharkhand, Ranchi/ Deputy Commissioner, Giridih/ Director of Mines, Government of Jharkhand, Ranchi/ Chief Inspector of Factories, Ranchi/ DFO, Giridih/ DMO, Giridih/ R O.,JSPCB, Hazaribagh for information & ensuring compliance of the above.

Yatindra
Kumar Das

Digitally signed by
Yatindra Kumar
Das
Date: 2024.03.31
16:09:56 +05'30'

[Y. K. Das]
Member Secretary



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/044, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



TEST REPORT



TC-12063

NABL ULR NO : TC1206324000018779

Issue Date : 28-Dec-2023

Test Report No : KLPL/12/23/ENVN/02629N

Rereference : -

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

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

Date of receipt : 11-Dec-2023 Commenced On: 11-Dec-2023 Completion On: 21-Dec-2023

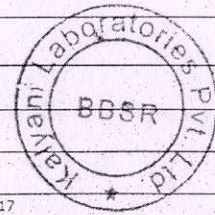
Sample Name : AMBIENT AIR QUALITY MONITORING

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

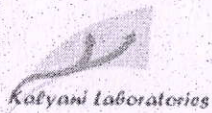
Sample Collected By : By KLPL(MR. SUDHIR KUMAR BARIK)

Ref.To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR ADMINISTRATIVE OFFICE BUILDING, DT- 06.12.2023 TO 07.12.2023				
Sulphur Dioxide	µg/m ³	80	17.50	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	77.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	41.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.66	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	28.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m ³	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	16.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Location & Date : NEAR ELECTRIC SUB STATION, DT- 06.12.2023 TO 07.12.2023				
Sulphur Dioxide	µg/m ³	80	19.00	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	36.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	84.00	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	0.70	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	17.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Location & Date : NEAR LABOUR REST ROOM, DT- 06.12.2023 TO 07.12.2023				
Sulphur Dioxide	µg/m ³	80	17.20	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	35.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	81.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	45.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017



KLPL- 364694A



KALYANI LABORATORIES PVT. LTD.

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

TEST REPORT

NABL ULR NO : TC1206324000018779
Test Report No : KLPL/12/23/ENVN/02629N **Issue Date** : 28-Dec-2023
Rereference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION- MBF)
Address : AT-CHATRO,TUNDI ROAD,GIRIDIH,JHARKHAND
Date of receipt : 11-Dec-2023 **Commenced On:** 11-Dec-2023 **Completion On:** 21-Dec-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

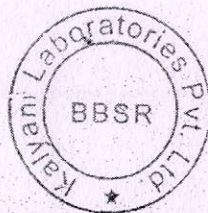
Parameters	Unit	Standard Value	Results	Test Method
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.68	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	28.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m ³	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	18.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Location & Date : NEAR WESTERN BOUNDARY DT- 06.12.2023 TO 07.12.2023				
Sulphur Dioxide	µg/m ³	80	19.40	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	38.00	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	0.72	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	20.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	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

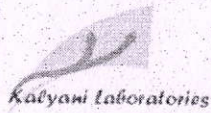
Analysed By

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/12/23/ENVN/026290 **Issue Date** : 28-Dec-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-Dec-2023 **Commenced On** : 11-Dec-2023 **Completion On**: 21-Dec-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 ADMINISTRATIVE OFFICE BUILDING, DT- 06.12.2023 TO 07.12.2023				
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date : NEAR ELECTRIC SUB STATION, DT- 06.12.2023 TO 07.12.2023				
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date : NEAR LABOUR REST ROOM, DT- 06.12.2023 TO 07.12.2023				
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date : NEAR WESTERN BOUNDARY DT- 06.12.2023 TO 07.12.2023				
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

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory.

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

Recognized by MoEF & CC,QCI-NABET

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

KLPL- 364692A



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



TEST REPORT



TC-12063

NABL ULR NO : TC1206324000018784
Test Report No : KLPL/12/23/WATER/09888 Issue Date : 28-Dec-2023
Reference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)
Address : At.: CHATRO - TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 11-Dec-2023 **Test Commenced On:** 11-Dec-2023 **Test Completion On:** 15-Dec-2023
Sample Description : **WASTE WATER**

Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification : **DOMESTIC EFFLUENT WATER** Sampling Date: 09-Dec-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-09.12.2023
Ref. To Sampling Procedure: KLPL/QSP-07

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Oil & Grease	mg/l	--	<1.0	APHA 24th Edition (5520B),2023
ii Total Dissolved Solid	mg/l	--	236	APHA 24th Edition (2540 C), 2023
iii Chemical Oxygen Demand	mg/l	--	40	APHA 24th Edition (5220 B), 2023
iv Biochemical Oxygen Demand(For 3 days 27deg C)	mg/l	--	14	APHA 24th Edition 2012(5210 B), 2023
v Total Suspended Solids	mg/l	--	30	APHA 24th Edition (2540 D),2023
PHYSICAL PARAMETER				
i Colour	True col. Unit	--	<1.0	APHA 24th Edition (2120 B), 2023
ii pH Value	---	--	7.45	APHA 24th Edition (4500-H+-B), 2023

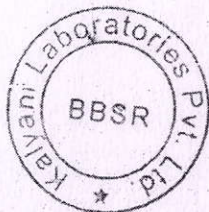
Remarks : --

Any unusual feature observed during determination :NIL

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd

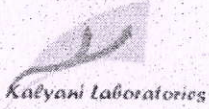


Authorized Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd

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



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78944, MILLENNIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA

TEST REPORT



Test Report No : KLPL/12/23/ENVN/02629P **Issue Date** : 28-Dec-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-Dec-2023 **Commenced On**: 11-Dec-2023 **Completion On**: 12-Dec-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 LOADING POINT OF FINISHED PRODUCT YARD DT- 07.12.2023				
Fugitive Dust	µG/M ³	2000	1676	KLPL/SOP/AIR-11:2012
Location & Date : NEAR MBF PLANT WORK SHOP DT- 07.12.2023				
Fugitive Dust	µG/M ³	2000	1740	KLPL/SOP/AIR-11:2012
Location & Date : NEAR SOLID WASTE DUMP AREA DT- 07.12.2023				
Fugitive Dust	µG/M ³	2000	1592	KLPL/SOP/AIR-11:2012
Location & Date : NEAR UNLOADING POINT OF RAW MATERIAL YARD DT- 07.12.2023				
Fugitive Dust	µG/M ³	2000	1728	KLPL/SOP/AIR-11:2012

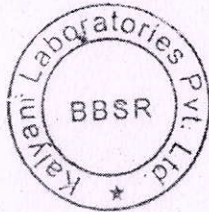
Remarks : -

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

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory

Dr. Debasis Biswal

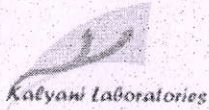
Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

Recognized by MoEF & CC,QCI-NABET

End of Test Report

KLPL- 364690A

Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

PLOT NO: 78/514, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



TEST REPORT



TC-12063

NABL ULR NO : TC1206324000018782

Issue Date : 28-Dec-2023

Test Report No : KLPL/12/23/ENVN/02629S

Rerefrence : -

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

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

Date of receipt : 11-Dec-2023 Commenced On: 11-Dec-2023 Completion On: 12-Dec-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 ADMINISTRATIVE OFFICE BUILDING, DT- 06.12.2023				
Noise Level Indl. Area (Day)	dB(A)	75	60.7	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (MBF UNIT), DT- 06.12.2023				
Noise Level Indl. Area (Day)	dB(A)	75	61.5	IS 9989:1981 (RA 2014)
Location & Date : NEAR PIG IRON MANUFACTURING UNIT, DT- 06.12.2023				
Noise Level Indl. Area (Day)	dB(A)	75	64.9	IS 9989:1981 (RA 2014)
Location & Date : NEAR LABOUR REST ROOM, DT- 06.12.2023				
Noise Level Indl. Area (Day)	dB(A)	75	59.3	IS 9989:1981 (RA 2014)

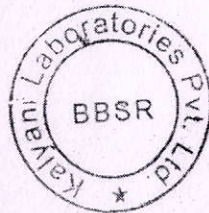
Remarks : -

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

Analysed By

TD Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



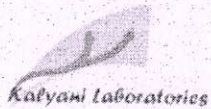
Authorised Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

KLPL- 364687A



KALYANI LABORATORIES PVT. LTD.

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



TEST REPORT



TC-12063

NABL ULR NO : TC1206324000018783

Test Report No : KLPL/12/23/ENVN/02629T

Issue Date : 28-Dec-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-Dec-2023 Commenced On: 11-Dec-2023 Completion On: 12-Dec-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 ADMINISTRATIVE OFFICE BUILDING, DT- 06-07.12.2023				
Noise Level Indl. Area (Night)	dB(A)	70	59.2	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (MBF UNIT), DT- 06-07.12.2023				
Noise Level Indl. Area (Night)	dB(A)	70	58.6	IS 9989:1981 (RA 2014)
Location & Date : NEAR PIG IRON MANUFACTURING UNIT, DT- 06-07.12.2023				
Noise Level Indl. Area (Night)	dB(A)	70	62.8	IS 9989:1981 (RA 2014)
Location & Date : NEAR LABOUR REST ROOM, DT- 06-07.12.2023				
Noise Level Indl. Area (Night)	dB(A)	70	57.4	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

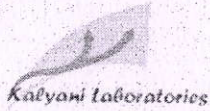
Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.



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

KLPL- 364686A

Page 1 of 1



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/94, MILLENIUM CITY PALAH, BHUBANESWAR-751032, ODISHA



TEST REPORT



TC-12063

NABL ULR NO : TC1206324000018788

Test Report No : KLPL/12/23/ENVN/02629Y

Issue Date : 28-Dec-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-Dec-2023 Commenced On : 11-Dec-2023 Completion On: 14-Dec-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 : MINI BLAST FURNACE STACK, DATE: 07.12.2023				
Particulate Matter	mg/Nm ³	50	32	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	16	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg C	--	121	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	6.92	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO ₂	mg/Nm ³	--	28	IS 11255(part-2):1985,RA:2019
*Weather condition	--	--	CLEAR	--
*Height of stack from ground level	In Meter	--	30	--
*Inner dimension of stack	In Meter	--	1.2	--
*Height of port hole	In Meter	--	12	--
Atmospheric temperature	Deg C	--	23	IS 11255(Part-1):1985,RA:2019
Volumetric flow rate	Nm ³ / hr	--	21,292	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.681	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

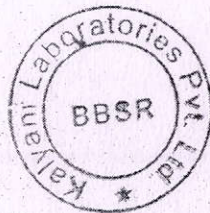
Requirement Is As Per Standard Specification CTO

* 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.



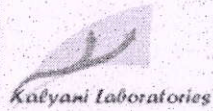
Authorised Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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

KLPL-364581A



KALYANI LABORATORIES PVT.LTD.

PLOT NO-78/944, MILLINIUM CHRYSPALM, BHUBANESWAR-752107, ODISHA

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TC-12063

TEST REPORT

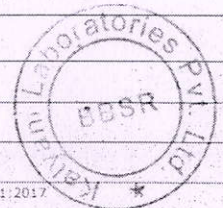
NABL ULR NO : TC1206324000002627
Test Report No : KLPL/03/20/ENVN/00141 **Issue Date** : 06-April, 2024
Reference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION- MBF)
Address : AT-CHATRO, TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 25-March, 2024 **Commenced On**: 25-March, 2024 **Completion On**: 30-March, 2024

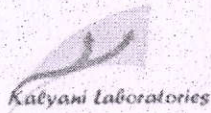
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure: KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR ADMINISTRATIVE OFFICE BUILDING, DT- 22.03.2024 TO 23.03.2024				
Sulphur Dioxide	µg/m ³	80	18.20	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	35.00	IS 5182 (PART 6) :2006
Particulate Matter (PM10)	µg/m ³	100	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	0.56	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	34.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m ³	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	18.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.1	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Location & Date : NEAR ELECTRIC SUB STATION, DT- 22.03.2024 TO 23.03.2024				
Sulphur Dioxide	µg/m ³	80	18.70	IS 5182(PART-2) : 2001
Nitrogen Dioxide	µg/m ³	80	37.00	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	51.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.62	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	36.00	KLPL/SOP/AIR-13 , ISSUE NO.1:2019
Lead (Pb)	µg/m ³	1.0	<0.02	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Ammonia (NH3)	µg/m ³	400	20.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.1	CPCB Guidelines of Ambient Air Pollutants Volume-I & II
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Location & Date : NEAR LABOUR REST ROOM, DT- 22.03.2024 TO 23.03.2024				
Sulphur Dioxide	µg/m ³	80	17.50	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	79.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	44.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017





KALYANI LABORATORIES PVT.LTD.

PLOT NO-78944, MILLENIUM CITY PALAL, BHUBANESWAR-752101, ODISHA

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TEST REPORT



NABL ULR NO : TC1206324000002627
Test Report No : KLPL/03/20/ENVN/00141 Issue Date : 06-April, 2024
Reference :
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIVISION- MBF)
Address : AT-CHATRO,TUNDI ROAD,GIRIDIH,JHARKHAND
Date of receipt : 25-March, 2024 Commenced On : 25-March, 2024 Completion On: 30-March, 2024
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure: KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.52	KLPL/SOP/AIR-19 :2019
Ozone (O3) (01 Hrs.)	µg/m ³	180	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	18.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Location & Date : NEAR WESTERN BOUNDARY DT- 22.03.2024 TO 23.03.2024

Sulphur Dioxide	µg/m ³	80	16.50	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	78.00	IS 5182(PART-23) :2006
Particulate Matter (PM2.5)	µg/m ³	60	43.00	KLPL/SOP/AIR-02 , ISSUE NO.1:2017
Carbon Monoxide (CO) (01 Hrs.)	mg/m ³	04	0.60	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	18.00	KLPL/SOP/AIR-05 , ISSUE NO.1:2017
Nickel (Ni)	ng/m ³	20	<4.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017
Benzo (a) Pyrene (BaP)	ng/m ³	01	<0.1	KLPL/SOP/AIR-07 , ISSUE NO.1:2019
Arsenic (As)	ng/m ³	06	<1.0	KLPL/SOP/AIR-10 , ISSUE NO.1:2017

Remarks : NIL

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

Analysed By

D. Arukha

Mr Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

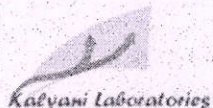


Authorised Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

KLPL- 1009343B



KALYANI LABORATORIES PVT.LTD.

PLOT NO-78/9/14, MILLENNIUM CITY PAHAL, BHUBANESWAR-752101, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in

TEST REPORT

Test Report No : KLPL/03/24/ENVN/0141 **Issue Date** : 06-April, 2024
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 : 25-March, 2024 **Commenced On** : 25-March, 2024 **Completion On** : 30-March, 2024
Sample Name : AMBIENT AIR QUALITY MONITORING
Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED/FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG
Sample Collected By : MR. SUDHIR KUMAR BARIK
Ref.To Sampling Procedure : KLPL/QSP-07

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR ADMINISTRATIVE OFFICE BUILDING, DT- 22.03.2024 TO 23.03.2024				
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date : NEAR ELECTRIC SUB STATION, DT- 22.03.2024 TO 23.03.2024				
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date : NEAR LABOUR REST ROOM, DT- 22.03.2024 TO 23.03.2024				
Benzene (C6 H6)	µg/m ³	05	<1.0	KLPL/SOP/AIR-07, Issue No.01: 2019
Location & Date : NEAR WESTERN BOUNDARY DT- 22.03.2024 TO 23.03.2024				
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.

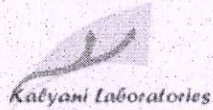
Authorised Signatory

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-751001, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in



TC-12063

TEST REPORT

NABL ULR NO : TC1206324000003817
Test Report No : KLPL/03/20/WATER/00634 **Issue Date** : 06-April, 2024
Reference : -
Customer Name : BALMUKUND SPONGE & IRON (P) LIMITED (MEGA DIV.)
Address : At: CHATRO - TUNDI ROAD, GIRIDIH, JHARKHAND
Date of receipt : 25-March, 2024 **Test Commenced On:** 25-March, 2024 **Test Completion On:** 30-March, 2024
Sample Description : **WASTE WATER**

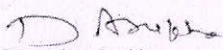
Sample Condition : SEALED IN 1LTR PET BOTTLE
Sample Identification * : **DOMESTIC EFFLUENT WATER** **Sampling Date:** 24-March, 2024
Batch No , Lot No : NA **MFG Date** : NA **EXP Date** : NA
Received Quantity : 1LTR X 1 **Place of Collection** :OUTLET OF ADMINISTRATIVE BUILDING
Sample Collected By : MR. SUDHIR KUMAR BARIK **DT-24.03.2024**
Ref. To Sampling Procedure: KLPL/QSP-07

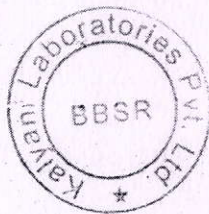
Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Oil & Grease	mg/l	-	<1.0	APHA 24th Edition (2550B), 2023
ii Total Dissolved Solid	mg/l	-	224	APHA 24th Edition (2540 C), 2023
iii Chemical Oxygen Demand	mg/l	-	40	APHA 24th Edition (5220 B), 2023
iv Biochemical Oxygen Demand (For 3 days 27deg C)	mg/l	-	14	APHA 24th Edition (5210 B), 2023
v Total Suspended Solids	mg/l	-	28	APHA 24th Edition (2540 D), 2023
PHYSICAL PARAMETER				
i Color	True col. Unit	-	<1.0	APHA 23 rd Edition (2120 B), 2017
ii pH Value	---	-	7.3	APHA 23 rd Edition (4500-H+-B), 2017

Remarks : NIL

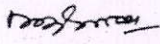
Any unusual feature observed during determination : NIL

Analysed By


 Mr. Digambar Arukha
 For Kalyani Laboratories Pvt. Ltd



Authorized Signatory

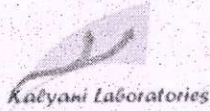

 Dr Debasis Biswal
 For Kalyani Laboratories Pvt. Ltd

End of Test Report

1289 | 2928A2E

Page 1 of 1

KLPL- 1009345B



KALYANI LABORATORIES PVT.LTD.

Plot No. 78/941-MILLENIUM CITY PHASE-1, BHUBANESWAR-752101, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in

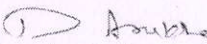
TEST REPORT

Test Report No	: KLPL/03/20/ENVN/00142	Issue Date	: 06-April, 2024		
Amendment No	: -	Amendment Date	: -		
Reference					
Customer Name	: BALMUKUND SPONGE & IRON (P) LIMITED				
Address	: MEGA DIV. (MBF-PIG IRON PLANT) At.: CHATRO-TUNDI ROAD, GIRIDIH, JHARKHAND				
Date of receipt	: 25-March, 2024	Commenced On:	25-March, 2024	Completion On:	27-March, 2024
Sample Name	: AIR QUALITY MONITORING (FUSITIVE DUST)				
Sample Condition	: FILTER PAPER SEALED IN ZIP LOCK POLYTHENE BAG				
Sample Collected By	: MR. SUDHIR KUMAR BARIK				
Ref.To Sampling Procedure:	: KLPL/QSP-07				
Parameters	Unit	Standard Value	Results	Test Method	
Location & Date	: NEAR LOADING POINT OF FINISHED PRODUCT YARD DT- 23.03.2024				
Fugitive Dust	µG/M ³	2000	1592	KLPL/SOP/AIR-11:2012	
Location & Date	: NEAR MBF PLANT WORK SHOP DT- 23.03.2024				
Fugitive Dust	µG/M ³	2000	1688	KLPL/SOP/AIR-11:2012	
Location & Date	: NEAR SOLID WASTE DUMP AREA DT- 23.03.2024				
Fugitive Dust	µG/M ³	2000	1574	KLPL/SOP/AIR-11:2012	
Location & Date	: NEAR UNLOADING POINT OF RAW MATERIAL YARD DT- 23.03.2024				
Fugitive Dust	µG/M ³	2000	1830	KLPL/SOP/AIR-11:2012	

Remarks : NIL

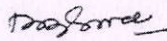
Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification NAAQS:2009

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- 1009347B



KALYANI LABORATORIES PVT.LTD.

PLOT NO-78/94, MILLENNIUM CITY PAHAL, BHUBANESWAR-75101, ODISHA

+91 9861463904 M: kalyanilab@yahoo.co.in



TC-12063

TEST REPORT


NABL ULR NO : TC1206324000002629
Test Report No : KLPL/03/20/ENVN/00143B **Issue Date** : 06-April, 2024
Amendment No : - **Amendment Date** : -
Reference : -
Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)
Address : (MBF UNIT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND
Date of receipt : 25-March, 2024 **Commenced On**: 25-March, 2024 **Completion On**: 27-March, 2024
Sample Name : NOISE (DAY TIME)
Sample Condition : -
Sample collected by : MR. SUDHIR KUMAR BARIK
Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR ADMINISTRATIVE OFFICE BUILDING, DT- 22.03.2024				
Noise Level Indl. Area (Day)	dB	75	62.8	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (MBF UNIT), DT- 22.03.2024				
Noise Level Indl. Area (Day)	dB	75	63.5	IS 9989:1981 (RA 2014)
Location & Date : NEAR PIG IRON MANUFACTURING UNIT, DT- 22.03.2024				
Noise Level Indl. Area (Day)	dB	75	65.7	IS 9989:1981 (RA 2014)
Location & Date : NEAR LABOUR REST ROOM, DT- 22.03.2024				
Noise Level Indl. Area (Day)	dB	75	60.4	IS 9989:1981 (RA 2014)

Remarks : NIL

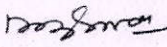
Any unusual feature observed during determination : NIL
Requirement Is As Per Standard Specification Noise Rule 2000

Analysed By

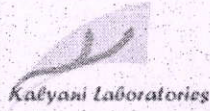

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory


Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

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



KALYANI LABORATORIES PVT.LTD.

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

+91 9861463904 M: kalyanilab@yahoo.co.in



TEST REPORT

NABL ULR NO : TC1206324000002629
Test Report No : KLPL/03/20/ENVN/00143C **Issue Date** : 06-April, 2024
Amendment No : - **Amendment Date** : -
Reference : -
Customer Name : BALMUKUND SPONGE & IRON PVT LTD (MEGA DIVISION)
Address : (MBF UNIT), AT- CHATRO - TUNDI ROAD, DISTRICT- GIRIDIH, JHARKHAND
Date of receipt : 25-March, 2024 **Commenced On**: 25-March, 2024 **Completion On**: 27-March, 2024
Sample Name : NOISE (NIGHT TIME)
Sample Condition : -
Sample collected by : MR. SUDHIR KUMAR BARIK
Ref. To Sampling Procedure: KLPL/NOISE/SOP-23

Parameters	Unit	Standard Value	Results	Test Method
Location & Date : NEAR ADMINISTRATIVE OFFICE BUILDING, DT- 22.03.2024 & 23.03.2024				
Noise Level Indl. Area (Day)	dB	70	60.6	IS 9989:1981 (RA 2014)
Location & Date : NEAR RAW MATERIAL YARD (MBF UNIT), DT- 22.03.2024 & 23.03.2024				
Noise Level Indl. Area (Day)	dB	70	59.4	IS 9989:1981 (RA 2014)
Location & Date : NEAR PIG IRON MANUFACTURING UNIT, DT- 22.03.2024 & 23.03.2024				
Noise Level Indl. Area (Day)	dB	70	64.7	IS 9989:1981 (RA 2014)
Location & Date : NEAR LABOUR REST ROOM, DT- 22.03.2024 & 23.03.2024				
Noise Level Indl. Area (Day)	dB	70	59.3	IS 9989:1981 (RA 2014)

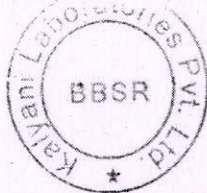
Remarks : NIL

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

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.

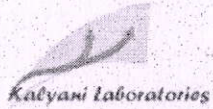


Authorised Signatory

Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report



KALYANI LABORATORIES PVT.LTD.

PLOT NO-78944, MILLENIUM CITY RAHAL, BHILAINESWAR-751001, ODISHA

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TC-12063

TEST REPORT

NABL ULR NO : TC1206324000002630

Test Report No : KLPL/03/24/ENVN/0144B **Issue Date** : 06-April, 2024

Amendment No : - **Amendment Date** : -

Reference : -

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

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

Date of receipt : 25-March, 2024 **Commenced On** : 25-March, 2024 **Completion On** : 28-March, 2024

Sample Name : **FLUE GAS | STACK MONITORING**

Sample Condition : GASEOUS SAMPLE ABSORBING SOLUTIONS REFRIGERATED

Sample Collected By : MR. SUDHIR KUMAR BARIK

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

Parameters	Unit	Standard Value	Results	Test Method
Location & Date	: Mini Blast Furnace Stack, Date:23.03.2024			
Particulate Matter	mg/Nm ³	50	36	IS 11255(Part-1):1985,RA:2019
Oxides of Nitrogen	mg/Nm ³	--	19	KLPL/SOP/AIR-20:2019
Stack Temperature	Deg C	--	124	IS 11255(Part-1):1985,RA:2019
Velocity	m/sec	--	6.73	IS 11255(Part-1):1985,RA:2019
Sulphur Dioxide as SO ₂	mg/Nm ³	--	25	IS 11255(part-2):1985,RA:2019
*Weather condition	--	--	CLEAR	--
*Height of stack from ground level	In Meter	--	30	--
*Inner dimension of stack	In Meter	--	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 ³ / hr	--	20550	IS 11255(Part-1):1985,RA:2019
Emission rate	kg/hr	--	0.74	IS 11255(Part-1):1985,RA:2019
*Name of fuel & quantity used per shift	--	--	Electricity (Electric Furnace)	--
*Production capacity	--	--	110 MT/day (Pig Iron)	--
*Stack attached to	--	--	Furnace through pollution control System (GCP & BAG Filter)	--

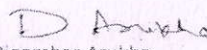
Remarks

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

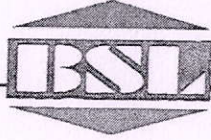

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorised Signatory


Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd.

End of Test Report



BALMUKUND

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

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

1st May, 2024

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

Sub: Submission of Environmental Statement for the Financial Year : 2023-24

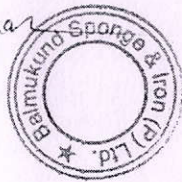
Sir,

We are submitting hereto attached Environmental Statement (Form V) for the Financial Year 2023-24 for your needful.

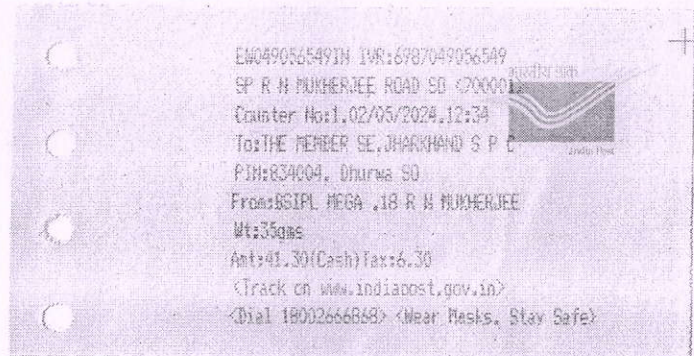
Thanking you,
Yours faithfully,

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

Santosh Kumar
Manager



Encl: As above.



WORKS : AT-CHATRO. TUNDI ROAD, P.O.: GADISIRAMPUR, 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

Environment Statement for the Financial Year ending the 31st March, 2024

PART - A

- 1) Name & Address of the owner/occupier of the industry operation or process : **Om Prakash Agrawal**
Balmukund Sponge & Iron Pvt.Ltd.(Mega Divn.)
Chatro, Fundi Road, Giridih.
- 2) Industry category-Primary, Secondary (STC Code): Primary
- 3) Production Capacity – Unit : TMT Rod - 746 MT per day
M.S. Billet - 828 MT per day
Indn.Furn.Slag Grinding- 47000 TPA
Pig Iron - 110 MT per day
Iron Ore (Beneficiated)- 94000 TPA
- 4) Year of Establishment : TMT Rod - 22.12.2021
M.S. Billet - 22.12.2021
Indn.Furn.Slag Grinding - 01.01.2022
Pig Iron - 14.11.2010
Iron Ore (Beneficiated)- 20.01.2016
- 5) Date of the last environmental statement submitted : 11.05.2023

PART - B

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

Name of Products	Process water consumption per unit of product out-put	
	During the previous Financial Year	During the current Financial Year
1. M.S. Billet	-	-
2. M.S./TMT Rod	-	-
3. Pig Iron	-	-
4. Iron Ore (Beneficiated)	0	0

- 7) Raw Material Consumption

Name of Raw Material	Name of Products	Raw material consumption per unit of product out-put	
		During the previous Financial Year(MT)	During the current Financial Year(MT)
1. Sponge Iron	M.S. Billet	0.950	0.889
2. Scrap of Iron & Steel		0.016	0.078
3. Pig Iron		0.136	0.191
4. Silico Manganese		0.013	0.014
5. Carbon Fines/CPC		0.001	0.000
1. M.S. Ingot/Billet	TMT Rod	1.005	1.005
2. Furnace Oil(KL)		0.000	0.000
1. Iron Ore	Pig Iron	1.100	1.696
2. Hard Coke		0.992	0.838
3. Dolomite/Quartz		0.336	0.230
4. Lime Stone		0.312	0.230
5. Iron Pellet		0.524	0.042
6. Iron Ore Fines		0.000	0.105

Raw Material Consumption

Name of Raw Material	Name of Products	Raw material consumption per unit of product out-put	
		During the previous Financial Year(MT)	During the current Financial Year(MT)
1. Low Grade Iron Ore	Beneficiated Iron Ore	1.343	1.315
2. Induction Slag	Iron Metal	0.00	12.52

PART – C

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

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

PART – D

Hazardous Waste

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

Hazardous Waste	Total Quantity (Kg/Ltr)	
	During the previous Financial year(Liter)	During the Current Financial Year(Liter)
From Process	-	-
From pollution control facilities(sold)	-	-
Other (Burnt Mobil Oil)	415	410

PART – E

Solid Waste

Solid Waste	Total Quantity (Kg)	
	During the previous Financial year	During the Current Financial Year
a) From Process		
i) From Induction unit – Slag	21555640*	19751735*
ii) From MBF unit – Slag	7905331	7743454
iii) Beneficiation of Iron Ore(Soil)	0**	0**
b) From Pollution Control facilities	9479	9296
c) Quantity recycled or re-utilized		
1)Sold -MBF unit(Pig) Slag	Sold-7159520	Sold-8489265
2)From Pollution Control facilities(Pig)	Reused in MBF-9479	Reused in MBF-9296
a) Disposal		
Induction slag	Crushing-22498390 Kg; C/B-15073725 Kg*. Waste/Dust 20691790 Kg Given Free of cost to brick manufacturers.	Crushing-12591790 Kg; Used in land filling within premises-12772430 Kg, C/B-9461240 Kg*. Crushing Waste/Dust 11586330 Kg Given Free of cost to brick manufacturers
Washing Slurry- to brick manufacturer	0	0

PART – F

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

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

PART – G

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

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

PART – H

Additional investment proposal for environment protection including abatement of pollution:

Already implemented :

- 1) Gas Cleaning Plant (GCP) has been provided to MBF unit.
- 2) Fume Extraction Systems have been provided to Induction Furnace unit.
- 3) Online Stake Emission monitoring facility to stakes of appropriate heights with PM₁₀, CO, SO₂, NO_x Analyzer and dust concentration monitoring with 24x7 days connectivity to JSPCB and CPCB servers have been provided for both the above units.
- 4) Sufficient Bag Filters at required places have been provided.
- 5) Dry Fog Systems at required places have been provided.
- 6) Settling tank for collection of after use water in Iron Ore Beneficiation (washing unit) has been provided.
- 7) Water used in cooling of hot products are kept in closed circuit for reuse again and again.
- 8) Water settling tank followed by soak-pits for collection of domestic waste water has been provided.
- 9) Online dust monitoring system for AAQ PM monitoring with 24x7 days connectivity to JSPCB and CPCB servers has been provided with a display board at factory premises main gate in public domain.
- 10) Water flow meter with camera are installed and is 24x7 days connected online to JSPCB & CPCB server to monitor.
- 11) Monitoring of AAQ within the premises, stack dust concentration, Fugitive Emission, Domestic Waste Water, Noise Level are also done quarterly by NABL laboratory.
- 12) Rolling Mill unit has been integrated to M.S. Billet unit by installing covered metal conveyor for easy feeding of M.S. Billet to Rolling mill.

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

PART – I

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

Besides operating facilities as above in Part-II, huge Plantation has been done around the factory premises. Concrete road constructed, Fixed water sprinklers have been provided by the side of concrete roads within premises. Manual water sprinklers have also been provided wherever fixed water sprinklers are found difficult to work. Manual water sprinklers are also made available for water sprinkling on approach roads to factory premise for dust suppression and to minimize the dust spread around boundary of factory premise.

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



S. K. Kumar
Manager