

SHAKAMBHARI ISPAT & POWER LTD.

CIN: U27109WB2001PLC093869 | GSTIN: 19AADCM1189L1Z1 | PAN: AADCM1189L | LEI NO. 3358005MV4ZAHMEP1S72

Ref: -SIPL/SMC/MoEFCC/OCT-2022 TO MAR-2023

Date: 30.05.2023

To,

The Inspector General of Forest (IGF)

GOI, MoEF&CC, Integrated Regional Office, Kolkata IB-198, Salt Lake City, Sector-III, Kolkata – 700106

SUB: Six Monthly Compliance (Oct-2022 to March-2023) to Environmental Clearance conditions vide MoEF&CC F. No. J-11011/201/2013-IA- II (I) Dated 21st December, 2016 and EC amendment dated 29th April, 2020 by M/s Shakambhari Ispat & Power Limited, Vill-Madandih, PO-Bartoria, Dist- Purulia (WB)

Dear Sir/Madam,

With reference to above, we are submitting herewith the six-monthly compliance report (Period Oct-2022 to March-2023) of M/s Shakambhari Ispat & Power Limited, Vill-Madandih, PO-Bartoria. Dist- Purulia (WB) as per the directives of Ministry of Environment Forest and Climate Change, Government of India. Point wise compliance status report along with latest environment monitoring data is enclosed for your kind consideration.

Hard copy of the report has not been sent following MoEFCC Eastern Regional Office direction vide File No. 106-12/EPE Dated 11.05.2020. Hope you will find the same in order.

Kindly acknowledge our submission.

Thanking You.

Yours faithfully,

For Shakambhari Ispat & Power Limited

MADANDII

Authorized Signatory

Encl: as above

Copy to:

The Environmental Engineer, West Bengal Pollution Control Board, Asansol Regional Office, Kalyanpur Satelite Township Project, Dr. B.C. Roy Road, PO- Dakshin Dhadka, Asansol-713302 Dist.-Paschim Bardhaman (WB)



SHAKAMBHARI ISPAT & POWER LIMITED

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE

MoEFCC F. No.: J-11011/201/2013-IA II (I) Dated: 21.12.2016 and EC amendment dated 29.04.2020 COMPLIANCE PERIOD:

OCTOBER-2022 TO MARCH-2023



PROJECT LOCATION:

Village-Madandih, P.O.-Bartoria, Dist.-Purulia, West Bengal-723121

Name of the Project	:	SHAKAMBHARI ISPAT & POWER LIMITEI Village-Madandih, PO-Bartoria Dist.—Purulia (WB)					
Environmental Clearance F.No.		J-11011/201/2013-IA II (I) Date: 21.12.2016 and EC amendment dated 29.04.2020					
Period of Compliance Report	:	October, 2022–March, 2023					

SI. No.	CONDITIONS	COMPLIANCE STATUS						
-	IFIC CONDITION:							
i.	The project proponent shall install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to Ministry and its Regional Office	We have installed 24x7 Online Continuous Emission Monitoring System (OCEMS) with all major stacks of DRI, CPP & Ferro Division and connected to CPCB portal to monitor the air emissions. Latest stack monitoring report is attached as Annexure-1						
ii.	No dumping is permitted in the abandoned coal mines 28 and 2C in nearby Parbelia Village. The iron ore trailing and excess ash should be stored within the plant premises for the period of 2 years for which land is available. The status of storage of above material shall be periodically reviewed by the regional office for land adequacy and environmental management. For future storage of iron ore tailing and excess ash, beyond the period of 2 years, the proponent will submit the land acquisition details to the Ministry.	It is being complied. No dumping being done in the abandoned coal mines 2B and 2C nearby Parbelia village. Iron ore beneficiation plant has not been installed so far. Therefore, Iron ore tailings storage facility is not applicable at this stage.						
III.	In-plant control measures like bag filters, de- dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant etc. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control the dust emissions. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.	SIPL has already installed de-dusting systems like bag filters and ESPs for an effective control of dust emissions. Dust extraction system has been provided at the strategic points attached with bag filter units for cooler discharge, intermediate bin, product house etc. Dust conveying system from cooler discharge to ABC have been provided with each DRI Kiln., Fixed type water sprinklers for dust suppression in raw material & product handling areas along the conveyor, finished product house area, cooler discharge, Coal Handling Plant (CHP), along with Kiln axis etc. SIPL have deployed movable water tankers and road sweeping machine for dust cleaning on the road and minimizing fugitive emissions. Latest fugitive emissions monitoring report is attached as Annexure-2						

Ref: MoEF&CC F. No. J-11011/201/2013-IA II (I) Date: 21.12.2016 and EC amendment, dated

SI. No.	CONDITIONS	COMPLIANCE STATUS						
iv.	The ETP for Mini Blast Furnace effluent should be designed to meet Cyanide standard as notified by the MoEF&CC.	It shall be complied. No Mini Blast Furnace has been installed so far.						
V.	No effluent shall be discharged outside the plant premises and 'zero' discharge shall be adopted.	Recycle and reuse practice has been adapted and no effluent being discharged outside the factory premises.						
vi.	Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm3 and installing energy efficient technology.	Online Continuous Emission Monitoring System (OCEMS) have been installed at Stacks of DRI and CPP. Air pollution control devices viz. ESPs and bag filters along with dust extraction system water sprinkling system for suppression system have been installed and efficiently operated to control emission level well within the norms. Third party monitoring by NABL accredited laboratory being conducted periodically to evaluate the emission levels. Latest stack monitoring report in enclosed as Annexure-1						
vii.	Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely. The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack.	Hot gases from DRI Kiln being passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) for complete burning of CO. The dust content from gas being separated by ESP and cleaned gas discharged through stack.						
VIII.	Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent should be treated and used for ash handling, dust suppression and green belt development. ETP sludge should be disposed off scientifically.	All possible attempts are made to ensure optimal use of water. We have rain water harvesting pond to harvest the rain water and reduce the water consumption. Air cooled condensers and closed-circuit cooling system have been provided with CFBC boiler to reduce water consumption. Cooling water in DRI, SMS and Rolling Mill are recycled back to the system. Roiling mill effluent being treated in ETP and recycled back to the process. Sludge generated from ETP being utilized in SAF. Cooling tower blowdown and softener/DM plant rejects being taken into neutralization/ humanization tanks and utilized for dust suppression, ash handling and for sprinkling on road to control fugitive dust emissions.						
ix.	All the coal fines, char from DRI plant shall be utilized and no char shall be used for briquette making or disposed off anywhere else. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.	It is being complied. All the coal fines and the char generated from DRI plant being strictly utilized in Captive Power Plant (CPP). Other solid waste like broken refractory etc. being sold to it recyclers.						

SI. No.	CONDITIONS	where heavy vehicle movements are exercised. The company has completed the paver blocking of around 96% of area where heavy vehicle movements are not envisaged. Along with paver blocking company has also done the concreting of many workplace areas of the plant.						
x.	All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.							
xi.	The Standards issued by the Ministry vide G.S.R. No. 277(E) dated 31st March, 2012 regarding integrated iron and steel plant shall be followed.	It is being followed.						
xii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed.	It is being followed. Latest Ambient Air Quality Monitoring report is attached as Annexure-6						
xiii.	Gaseous emission levels including 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 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.							
xiv.	Regular monitoring of influent and effluent surface, sub- surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more Stringent.	Regular monitoring being done. Recycle and reuse practice has been adapted and no effluent being discharged outside the factory premises. Latest monitoring report of Effluent water Surface water and Ground water is enclosed as Annexure-7A, 7B & 7C.						
XV.	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic	Proper handling, storage, utilization and disposal of solid waste being done. Analysis of toxic metal content in the solid waste being						

Ref: MoEF&CC F. No. J-11011/201/2013-IA II (I) Date: 21.12.2016 and EC amendment, dated

SI. No.	CONDITIONS	COMPLIANCE STATUS
	metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office, SPCB and CPCB.	periodically carried out by approved agency. The monitoring report by NABL accredited laboratory is enclosed as Annexure-8
xvi.	A time bound action plan shall be submitted to reduce solid waste generated due to the project related activity, its proper utilization and disposal.	Solid waste generated from project activities are properly utilized at plant site. Excavated good soil being used for greenbelt development and remaining soil for backfilling. Old structural if any, are utilized in SMS and re-melted in induction furnace. Civil debris are used for road making/concretization of shop floors.
xvii,	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendments. 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.	All the fly ash generated within the plant is provided to brick manufacturers for further utilization. Accordingly, company has made agreement for the same. Company has also got permission from Eastern Coalfields Limited (ECL) for filling the illegally mined place at Bicched Bandh area near Narsamunda Colliery of Sodepur area. Copy of the agreement is enclosed as Annexure-9A & 9B
xviii.	A Risk and Disaster Management Plan shall be prepared and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.	Complied. It is already been submitted.
xix.	Green belt shall be developed in at least 33% of the project area by planting native and broad-leaved species in consultation with local DFO and local communities as per the CPCB guidelines.	SIPL has achieved the target of green belt plantations in 33% area of the plant i.e. 23.66ha out of 71.71ha land of project area having 36,000 trees till 31.10.2022 (maintaining the approx. 1500trees/ha. trees density. Company has taken extensive plantation drive by using indigenous species i. e. Radhachura, Neem, Arjun, Spathodia, Banyan, Peepal, Bakul, Conocarpus, Kadam, Rain tree, Shishu, Sonajhuri, Siris, Pitanjiba, Ficus, Krishnachura Chaatim, Kanchan, Gamhar etc. along the plant roadside, periphery as well as inside the plant according to recommendation from DFO and species of local growing species. SIPL has further initiated for more plantation by gap filling and scoping the additional area for plantation and 46165 plants have been planted so fair maintaining the tree density 1951/ha. Further we are committed to develop more greenery by identifying more scope of plantation and green cover development by gap filling during ensuing monsoon season. Some photographs of green belt development /green cover plantation are attached as Annexure-5
XX.	All the commitments made to the public	It is compiled/being complied.

SI. No.	CONDITIONS	COMPLIANCE STATUS						
TWO.	during Public Hearing/public consultation meeting shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	In accordance to the compliance of commitments made during public hearing and additional requirements made by the local people time to time, various CSR activities have been undertaken by SIPL for the benefit of local community of nearby villages i.e. Distribution of blanket, winter dresses for local needy villagers. Drinking water to the nearby villagers, free medical camps for needy people, providing study material to the school students and also arrange the sitting facilities to the school students, repairing & coloring of school building, food grains distribution to acute malnourished community, distribution of food materials during COVID situations to the weaker section of nearby villages communities, monetary support to the surrounding villagers for varies cultural program etc. Some photographs recently dove activities attached as Annexure-10 We have dedicated CSR team to look after the welfare activities and redressing of issues if any.						
ххі.	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and item- wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of the proponent, representatives of village Panchayat and District Administration. Action taken reporting this regard shall be submitted to the Ministry's Regional Office.	It has been complied. Details of the public hearing issues and various activities undertaken along with other need-based CSR activities is attached as Annexure-10						
121	the Ministry's Regional Office. The proponent shall prepare a detailed CSR Plan for every year for the next 5 years for the existing-cum- expansion project, which includes village-wise, sector- wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135	villages in consultation with local communities for their benefit of health, education, cultural activities, skill development and employment to local people etc. Our expenditures are incurred primarily towards supporting education, health, for the benefit of local community, such as repairing and renovating of old schools in local villages, developing of furnishing classrooms, facilitating study materials and utilities, and providing support to the Harmadih hospital by, drinking water arrangements, oxygen cylinders, illumination of						

Ref: MoEF&CC F. No. J-11011/201/2013-IA II (I) Date: 21.12.2016 and EC amendment, dated:

29.04,2020

SI. No.	CONDITIONS	COMPLIANCE STATUS							
NO.	of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.	public toilets, construction of Temples and Prayer Halls on demand of the local communities in nearby village etc. In addition to the above, further our primary objective is the Skill development of the local youth and strengthening employability, also making self-help groups of women for their economic improvements. Our HR-IR and CSR team personnel to look after the welfare activities and redressing of issues if any.							
xxiii.	The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to being into focus any infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of noncompliance/ violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.	Complied. SIPL have implemented standard operating procedure to look into any infringement deviation/violation of environmental or forest norms/conditions. SIPL have also the Hierarchical system/ Administrative order to deal with environmental issues and compliance of EC conditions. SIPL have in placed reporting system for non-compliance / violation of environmental norms. Board of Directors CMD Head-Environment Management Cell Unit Head							
xxiv.	solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.	It is complied, Solar lighting system have been installed in the village Radhamadhabpur & Erakusum on roads side near Kali Mandir and it is being maintained regularly.							
XXV.	The project proponent shall provide for LED lights in their offices and residential areas.	Complied. Energy conservation measure has already been adapted by providing LED lights in the offices to minimization of energy consumption.							
xxvî.	Provision shall be made for the housing of construction labour within the site with all								

SI. No.	CONDITIONS	COMPLIANCE STATUS						
	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.	and workers whoever involved in construction activities are from nearby area and do not require to stay at project site.						
GENE	RAL CONDITIOS:							
i.	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and State Government.	It is being adhered as per the stipulation made by WBPCB and State Government. Consent to Operate obtained from WBPCB is attached as Annexure –12						
ii.	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	It shall be followed. No further modification or expansion will be undertaken without prior approval of the Ministry of Environment Forests and Climate Change (MoEF&CC).						
iii,	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM25, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/ CPCB once in six months.	Ambient Air Quality Monitoring being carried on as per direction in four locations in consideration of maximum ground level concentration of PM10, PM2.5, SO ₂ , and NO _x . Latest Ambient Air Quality monitoring report and stack monitoring report is enclosed as Annexure-6 & Annexure-1						
iv.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Being complied. Effluent generated from roiling mill being treated in ETP and recycled back to the process. Sludge generated from ETP being utilized in SAF. Cooling tower blowdown and softener/DM plant rejects being taken into neutralization/ homogenization tank and utilized for dust suppression and, ash handling and for sprinkling on road to control fugitive dust emissions. No industrial effluent being discharged outside the factory premises.						
٧.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dB(A)) 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 dB(A) during	Noise control measure has already been implemented to keep the noise level well within the 85 dB(A) and ambient noise level below 75 dB(A) (during day time and 70 dB(A) (during night time). Work Zone and Ambient Noise Monitoring report is enclosed as Annexure- 13A & 13B						

SI. No.	CONDITIONS	COMPLIANCE STATUS						
	day time and 70 dB(A) during nighttime.							
vi.	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 being carried out on regular interval and records are maintained. Last Health checkup reports of some employees are enclosed as Annexure-14						
vii.	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain water harvesting pond has been developed within the plant premises to harvest the rain water. This water is being utilized in the lean season as per requirement.						
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in	Environmental protection measures have been implemented for effective compliance of safe guards and recommended in the EIA/EMP reports.						
	the EIA/EMP report. Further, the company must undertake socio- economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	already undertaken through providing job to local people. SIPL have undertaken various social activities in nearby villages in consultation with local communities						
ix.	Requisite funds 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, Forest and Climate Change (MoEF&CC) 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.	Requisite funds being released towards capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by MoEF&CC. Accordingly necessary facilities like ESPs followed by silos for de-dusting during boiler operation, bag filters along with dust extraction system, water sprinkling system for fugitive dust suppression, water tankers and road sweeping machine for dust suppression on roads, green belt development and water recycling system etc. have been installed for abatement of the pollution. Concretization/ paving of roads are almost on the stage of completion. Suitable man powers have been engaged for an efficient operation, monitoring and maintenance of the devices installed.						

SI. No.	CONDITIONS	COMPLIANCE STATUS						
х.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, 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.	Clearance letter has been sent to concerned local body EC letter is also uploaded to company website. http://shakambhariispat.com/environmental-orders						
xi.	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&CC at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Compliance status being periodically uploaded on the company website http://shakambhariispat.com/environmental-compliance Environmental parameter monitored has been displayed at the entrance of the company main gate in the public domain. Attached as Annexure -15						
xii.	The project proponent shall also submit six monthly report 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&CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/ CPCB/SPCB shall monitor the stipulated conditions.	Six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data had earlier been submitted to MoEF&CC and Pollution Control Board in both soft & hard copies. Now it is being submitted in soft copy only as per direction of Hon'ble MoEF&CC F. No. 106-12/EPE dated 11.05.2020						
xiii.	The environmental statement for each financial year ending 31st 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&CC	Being complied. The environment statement (Form-V) for Financial Year 2021-22 has already been submitted and for FY: 2022-23 will be submitted to WBPCB with copy to Integrated Regional Office of the MOEF&CC, Kolkata. The report being/will be uploaded on the company's website as per direction.						

SI. No.	CONDITIONS	COMPLIANCE STATUS					
	at Bhubaneswar by e-mail.						
xiv.	The project proponent shall inform the public that the project has been accorded environment 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, Forest and Climate Change (MoEF&CC) 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 newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and copy of the same should be forwarded to the Regional Office at Bhubaneswar						
XV.	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.	Complied. Land development for the project was started w.e.f 22.03.2017 and the date of financial closure is 14.01.2017					
Addit	ional condition as per EC Amended F. No. J-11	011/201/2013-IA.II (I) dated 29 th April, 2020					
i.	An affidavit ensuring compliance to the non-compliances/partial compliances reported in the monitoring report of the Regional Office dated 18/02/2019 shall be submitted to the Ministry and to the Regional Office of the Ministry at Bhubaneshwar within three months from date of issue of this letter.	Complied. We have already submitted the affidavit following the direction of Hon'ble MoEF&CC.					









FORMAT NO: ENV/FM/38

Name of the Industry	:	Shakambhari Ispat & Power Ltd.						Type of Industry				Steel & Power Unit		
Address	:	Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia,						Sampling Date				22.02.2023		
		Dist – Purulia, (WB)– 723121				Ī	Period of Analysis					25.02.2023 - 25.02.2023		
							Date of Issue				:	27.02.2023		
Sampling Plan &	:	ENV/SOP/01	ENV/SOP/01 Deviation from the Sampling Method ar					:	No	Ту	ре	of Sample	:	Stack
Procedure							383			y.			Emission	
Sample Condition	••	Sealed Samp	le ID No.	:	ENV/63/Feb./A/I		Report	ort No. : ENV/63/Feb./TR(A)/I/22-23						

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln (No. 1 & 2) (100 TPD each) (attac	ched to common Stack)				
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)				
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	2.0		
Capacity	:	100 TPD (each)	Height of sampling port (mtr.) (from G.L.)	:	15.	.0	
Emission Due to	:	Combustion of Coal & Reduction of Fe-Ore	The second second second				
Fuel Used	:	Coal	Permanent Platform & Ladder	r	:	Yes	
Working Fuel Consumption	:	5.12 MT/hr./Kiln					
Pollution Control Device	:	W.H.R.B with E.S.P					

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.	AL ETTE				
1.	Flue Gas Temperature	оС	IS : 11255 (Part 1)	:	152.0
2.	Barometric Pressure	mm of Hg.	-	:	758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	:	9.78
4.	Quantity of Gas flow	Nm³/hr.	IS : 11255 (Part III)	:	75607.58
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	:	425.22
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	:	10.6
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	:	<1.0
8.	a) Concentration of Particulate	mg/Nm³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D	:	32.19
	Matter (at 10.6% CO ₂)	- 3	3685M-98 (reapproved 2005) : Sec. 11		
	b) Concentration of Particulate	100	(Vol.11.07) : 2017	:	36.44
	Matter (at 12% CO ₂)	- 2	-		

Remarks : Result relates only to the sample tested.

Reviewed By:

Indrani Bhaltacharyya

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

Authorised Signatory:

Mark

Dr. AJOY PAUL Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 = Ph. 033 25792891/ 25497490 = Fax : 033 25299141

Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792889

E-mail : info@envirocheck.in / envirocheck50@gmail.com = Website : www.envirocheck.in Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi





FORMAT NO: ENV/FM/38

Name of the Industry	:	Shakambhari Is	spat & Powe	er L	td.		Туре	of In	dustry		:	Steel & Po	wer	Unit
Address	:	Vill. – Madandi	h, P.O. – Bar	tor	ia, P.S. – Netur	ia,	Samp	ling l	Date			22.02.202	3	
		Dist – Purulia, ((WB)- 7231	WB) – 723121 Period of Analysis								25.02.202	25.02.2023	
							Date o	of Iss	ue	2		27.02.2023	3	
Sampling Plan &	:	ENV/SOP/01	Deviation	fro	m the Samplin	g Method an	d Plan	:	No	Ту	pe (of Sample		Stack
Procedure									1/4	1	ÿ.			Emission
Sample Condition	:	Sealed Samp	le ID No.	:	ENV/63/Feb.	/A/II	Repoi	t No	. 2	EN	VV/	63/Feb./TR	(A)	/II/22 - 23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln (No. 3 & 4) (100 TPD each) (attach	ed to common Stack)		
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	35.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	2.0
Capacity	:	100 TPD	Height of sampling port (mtr.) (from G.L.)	:	15.0
Emission Due to	:	Combustion of Coal & Reduction of Fe-Ore	A CONTRACT OF THE PARTY OF THE		
Fuel Used	:	Coal	Permanent Platform & Ladden	r	: Yes
Working Fuel Consumption	:	5.12 MT/hr./Kiln	2000000		
Pollution Control Device	:	E.S.P with W.H.R.B			

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.	A. 1775.		the second secon		
1.	Flue Gas Temperature	оС	IS: 11255 (Part 1)	:	149.0
2.	Barometric Pressure	mm of Hg.		:	758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	:	10.36
4.	Quantity of Gas flow	Nm³/hr.	IS : 11255 (Part III)	:	80766.42
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	:	456.14
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	:	11.2
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	:	<1.0
8.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part – 1): 2019 & ASTM D 3685/D	:	25.32
	Matter (at 11.2% CO ₂)	#	3685M-98 (reapproved 2005) : Sec. 11		
	b) Concentration of Particulate	100	(Vol.11.07): 2017	:	27.12
	Matter (at 12% CO ₂)				

Remarks : Result relates only to the sample tested.

Reviewed By:

Indrawi Blattocharyya

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

Authorised Signatory:

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Dr. AJOY PAUL Quality Manager

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi





FORMAT NO: ENV/FM/38

Name of the	:	Shakambhari Ispat & Power Ltd. Type of Industry : Steel										Steel & Power Unit		
Industry											400			
Address	:	Vill. – Madandi	Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia, Sampling Date : 22.02											
		Dist – Purulia, (ilia, (WB) – 723121 Period of Analysis :								25.02.2023 - 25.02.2023			
						Date	of Iss	sue	à	:	27.02.2023	3		
Sampling Plan &	:	ENV/SOP/01	Deviation	fro	om the Sampling Method ar	ıd Plan	:	No	Ty	ype	of Sample	:	Stack	
Procedure									1	Emission				
Sample Condition	••	Sealed Samp	le ID No.	:	ENV/63/Feb./A/IV	Repo	rt No	2.0	El	NV/	63/Feb./TR	(A)	/IV/22 - 23	

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Hoods Over Induction Furnace (6 nos.)	attached to common stack				
Shape of Stack	G. L.)						
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	1.0		
Capacity	:	25 MT/Heat (each furnace)	Height of sampling port (mtr.) (from G.L.)	:	19.	0	
Emission Due to	:	Melting of Pig Iron, Sponge Iron and Scr	ар				
Fuel Used	:	Electrically Operated	Permanent Platform & Ladde	r	:	Yes	
Working Fuel Consumption	:	Yes	Commence of the last				
Pollution Control Device	:	Bag Filter					

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.	4 2 2				
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	64.0
2.	Barometric Pressure	mm of Hg.		:	758.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	9.43
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	23489.18
5.	Concentration of Particulate	mg/Nm³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D	:	26.17
	Matter	1	3685M-98 (reapproved 2005) : Sec. 11		
		/	(Vol.11.07): 2017		

Remarks : Result relates only to the sample tested.

During monitoring all. furnaces were in operation.

Reviewed By:

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

Indraui Blattacharyya

Authorised Signatory:

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FORMAT NO: ENV/FM/38

Name of the Industry	:	Shakambhari Ispat & Power Ltd. Type of Industry :									: Steel & Power Unit			
Address	:	Vill. – Madandi	h, P.O. – Ba	rto	ria, P.S. – Neturia,	Sampling Date					22.02.202	3		
		Dist – Purulia, ((WB)- 723	_	Period of Analysis					25.02.202	3 –	25.02.2023		
						Date o	f Iss	ue	3		27.02.202	3		
Sampling Plan &	:	ENV/SOP/01	Deviation	ı fro	om the Sampling Method ar	nd Plan	:	No	Ty	<i>т</i> ре	of Sample	:	Stack	
Procedure		•									_		Emission	
Sample Condition	:	Sealed Samp	le ID No.	:	ENV/63/Feb./A/VI	Repor	t No	8	EI	VV/	63/Feb./TR	(A)	/VI/22-23	

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln No. 7 (1 x 600 TPD)			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	72.0
Materials of Construction	:	Concrete	Stack I.D. at sampling point (mtr.)	:	2.17
Capacity	:	600 TPD	Height of sampling port (mtr.) (from G.L.)	:	35.0
Emission Due to	:	Combustion of Coal & Reduction of Fe-Ore	The Country of the Co		
Fuel Used	:	Coal	Permanent Platform & Ladder		: Yes
Working Fuel Consumption	:	13.5 TPH/hr.			
Pollution Control Device	:	E.S.P			

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.			A STATE OF THE PARTY OF THE PAR		
1.	Flue Gas Temperature	оС	IS: 11255 (Part 1)	:	198.0
2.	Barometric Pressure	mm of Hg.	-	:	758.0
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	:	10.94
4.	Quantity of Gas flow	Nm³/hr.	IS : 11255 (Part III)	:	89602.58
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2): 2019	:	385.35
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	:	11.8
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	:	<1.0
8.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part – 1): 2019 & ASTM D 3685/D	:	19.44
	Matter (at 11.8% CO ₂)		3685M-98 (reapproved 2005) : Sec. 11		
	b) Concentration of Particulate	mg/Nm ³	(Vol.11.07): 2017	:	19.77
	Matter (at 12% CO ₂)	4			

Pemarks : Result relates only to the sample tested.

Reviewed By:

Indrawi Blattocharyya

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Authorised Signatory:

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FORMAT NO: ENV/FM/38

Name of the Industry	:	Shakambhari Is	bhari Ispat & Power Ltd. Type of Industry : Steel & Powe								wer	Unit		
Address	:	Vill. – Madandi	h, P.O. – Ba	rtoi	ria, P.S. – Neturia,		Sampli	ng I	ate		:	22.02.202	3	
		Dist – Purulia, ((WB)- 723	121			Period	of A	nalys	is : 25.02.2023			3 - 25.02.2023	
							Date of	Iss	ue	2	: 27.02.2023			
Sampling Plan &	:	ENV/SOP/01	Deviation	ı fro	om the Sampling Method	an	d Plan	:	No	Ту	ре	of Sample	:	Stack
Procedure									10		7			Emission
Sample Condition	••	Sealed Samp	le ID No.		ENV/63/Feb./A/V		Report	No.	2.0	ENV/63/Feb./TR(A)/V/22-23				

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln No. 5 &6 (2 x 350 TPD) (attach	ed to common Stack)							
Shape of Stack	:	Circular	rcular Height of Stack (mtr.) (from G. L.)							
Materials of Construction	:	Concrete	Stack I.D. at sampling point (mtr.)	:	2.6	0				
Capacity	:	350 TPD (each)	TPD (each) Height of sampling port (mtr.) (from G.L.)							
Emission Due to	:	Oxidation of Coal & Reduction of Fe-Ore								
Fuel Used	:	Coal	Permanent Platform & Ladder		1:	Yes				
Working Fuel Consumption	:	13.5 TPH/Kiln								
Pollution Control Device	:	W.H.R.B with E.S.P								

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.			and the same of th		
1.	Flue Gas Temperature	оС	IS: 11255 (Part 1)	:	188.0
2.	Barometric Pressure	mm of Hg.		:	758.0
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	:	11.68
4.	Quantity of Gas flow	Nm³/hr.	IS : 11255 (Part III)	:	140655.03
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2): 2019	:	435.55
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	:	11.8
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	:	<1.0
8.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part – 1): 2019 & ASTM D 3685/D	:	19.80
	Matter (at 11.8% CO ₂)	. 0	3685M-98 (reapproved 2005) : Sec. 11		
	b) Concentration of Particulate	- 1	(Vol.11.07): 2017	:	20.13
	Matter (at 12% CO ₂)	- 10			

Remarks : Result relates only to the sample tested.

: During monitoring both kilns were in operation

Reviewed By:

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

Indrawi Blattacharyya

Authorised Signatory:

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FORMAT NO : ENV/FM/38

Name of the Industry	:	Shakambhari Is	spat & Pow	er I	.td.	Туре о	f Inc	dustry	7	:	Steel & Power Unit			
Address	:	Vill. – Madandi	h, P.O. – Ba	rtoı	ria, P.S. – Neturia,	Sampling Date					22.02.2023			
		Dist – Purulia, (vist – Purulia, (WB)– 723121 Period of Analysis						18	: 25.02.2023 – 25.02.2023				
						Date of	f Iss	ue	à	1	27.02.202	3		
Sampling Plan &	:	ENV/SOP/01	Deviation	fro	om the Sampling Method an	ıd Plan	:	No	T	ype	of Sample	:	Stack	
Procedure		•			_	9/0				W.	_		Emission	
Sample Condition	:	Sealed Samp	le ID No.	:	ENV/63/Feb./A/III	Report	No.	20	Е	NV/	63/Feb./TR	(A)	/III/22 - 23	

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	AFBC Boiler				
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	60	.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	2.1	.0
Capacity	:	36 TPH	Height of sampling port (mtr.) (from G.L.)	:	20	.0
Emission Due to	:	Combustion of Coal & Dolochar				
Fuel Used	:	Coal & Dolochar	Permanent Platform & Ladde	r	1:	Yes
Working Fuel Consumption	:	Coal – 150 TPD & Dolochar – 132TPD				
Pollution Control Device	:	E.S.P				

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.	4 7 7 7		and the same of th		
1.	Flue Gas Temperature	оС	IS : 11255 (Part 1)	:	147.0
2.	Barometric Pressure	mm of Hg.		:	758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	:	10.36
4.	Quantity of Gas flow	Nm³/hr.	IS : 11255 (Part III)	:	89575.03
5.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) : 2019	:	373.30
6.	Concentration of NO _x (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 7): 2017 / ASTM D 1608-98,	:	142.20
		W. 37	Sec. 11 (Vol. 11.07): 2017		
7.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	:	10.0
8.	Concentration of O ₂	% (v/v)	EPA Method 3: 2017	:	8.4
9.	Concentration of CO	%(v/v)	IS 13270 : 2019	:	<1.0
10.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1): 2019 & ASTM D 3685/D	:	23.94
	Matter		3685M-98 (reapproved 2005) : Sec. 11		
	b) Concentration of Particulate	mg/Nm ³	(Vol.11.07) : 2017	:	28.50
	Matter (at 6% O ₂)	The same of the sa			

Remarks : Result relates only to the sample tested.

Reviewed By:

Authorised Signatory:

Mark

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 Dy. Technical Manager, Chemical

Dr. AJOY PAUL

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FORMAT NO: ENV/FM/38

Name of the	:	Shakambhar	Ispat& Pow	er L	td. (Ferro Division)	Type of Industry				:	Steel & Power Unit		
Industry											100		
Address	:	Vill. – Madan	dih, P.O. – Ba	ırto	ria, P.S. – Neturia,	Sampling Date				••	23.02.202	3	
		Dist – Purulia	rulia, (WB)– 723121 Period of Analysis						is : 25.02.202			23 - 25.02.2023	
						Date o	f Iss	ue	38		27.02.202	3	
Sampling Plan &	:	ENV/SOP/01	Deviatio	n fro	om the Sampling Method an	ıd Plan	:	No	Ty	ре	of Sample	:	Stack
Procedure					_	- 100				7			Emission
Sample Condition	:	Sealed San	ıple ID No.	:	ENV/63/Feb./A/VII	Repor	t No.		EI	VV/	63/Feb./TF	R(A)	/VII/22 - 23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF (No.1)				
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	32.	0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	1.8	0
Capacity	:	9.0 MVA	Height of sampling port (mtr.) (from G.L.)	:	22.	0
Emission Due to	:	Reduction of Si-Mn Ore	The second section is			
Fuel Used	:	N.A. (Electrically Operated)	Permanent Platform & Ladde	r	1:	Yes
Working Fuel Consumption	:	Nil				
Pollution Control Device	:	F. D. Cooler and Pulse Jet Bag Filter				

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	68.0
2.	Barometric Pressure	mm of Hg.		:	758.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	7.72
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	61573.53
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	392.0
6.	Concentration of Particulate	mg/Nm ³	IS 11255 (Part – 1): 2019 & ASTM D 3685/D	:	23.81
	Matter	10.27	3685M-98 (reapproved 2005) : Sec. 11		
		70	(Vol.11.07) : 2017		

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Bhattacharyya

Authorised Signatory:

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FORMAT NO: ENV/FM/38

Name of the Industry	:	Shakambhari Is	spat & Pow	er l	Ltd. (Ferro Division)	Type of Industry					Steel & Po	Unit	
Address	:	Vill. – Madandi Dist – Purulia, (•		ria, P.S. – Neturia,	Sampling Date Period of Analysis					23.02.2023 25.02.2023 - 25.02.2023		
			Date						e	:	27.02.202	3	
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method an				an	:	No T	ype	of Sample	:	Stack Emission
Sample Condition	••	Sealed Samp	le ID No.	:	ENV/63/Feb./A/VIII	Rep	ort N	lo.	: E	: ENV/63/Feb./TR(A)/VIII/22-23			

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF (No.2)				
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	32.	0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	1.8	0
Capacity	:	9.0 MVA	Height of sampling port (mtr.) (from G.L.)	:	22.	0
Emission Due to	:	Reduction of Si-Mn Ore				
Fuel Used	:	N.A. (Electrically Operated)	Permanent Platform & Ladde	r	1:	Yes
Working Fuel Consumption	:	Nil	Comment of the Comment			
Pollution Control Device	:	F. D. Cooler and Pulse Jet Bag Filter				

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.	A 575	the same of			
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	72.0
2.	Barometric Pressure	mm of Hg.		:	758.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	7.77
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	61242.48
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	359.86
6.	Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1): 2019 & ASTM D 3685/D 3685M-	:	21.76
	Matter	1	98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017		
Remar	ks : Result relates only to the sa	mple tested.	S		

Reviewed By:

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FORMAT NO: ENV/FM/38

Name of the	:	Shakambhar	i Ispat & Pov	ver l	Ltd.	Type of Industry				:	Steel & Power Unit		
Industry										6.0			
Address	:	Vill. – Madar	ndih, P.O. – Ba	arto	ria, P.S. – Neturia,	Sampling Date					23.02.202	3	
		Dist – Puruli	a, (WB)- 723	Period of Analysis					25.02.2023 – 25.02.2023				
						Date of Issue				27.02.202	3		
Sampling Plan &	:	ENV/SOP/0	1 Deviatio	n fro	om the Sampling Method an	nd Plan	:	No	Ty	<i>р</i> е	of Sample	:	Stack
Procedure					_								Emission
Sample Condition	:	Sealed Sar	nple ID No.	:	ENV/63/Feb./A/IX	Report	No.		EI	VV/	63/Feb./TF	(A)	/IX/22 - 23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF (No.3)			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	32.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	1.80
Capacity	:	9.0 MVA	Height of sampling port (mtr.) (from G.L.)	:	22.0
Emission Due to	:	Reduction of Si-Mn Ore	The second second second		
Fuel Used	:	N.A. (Electrically Operated)	Permanent Platform & Ladden	:	: Yes
Working Fuel Consumption	:	Nil	Comment Address		
Pollution Control Device	:	F. D. Cooler and Pulse Jet Bag Filter			

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.	26. 33	Miles and the			
1.	Flue Gas Temperature	oC	IS 11255 (Part 1)	:	70.0
2.	Barometric Pressure	mm of Hg.		:	758.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	7.74
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	61373.08
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	411.27
6.	Concentration of Particulate	mg/Nm ³	IS 11255 (Part – 1): 2019 & ASTM D 3685/D 3685M-	:	16.09
	Matter	7	98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017		
Remar	ks : Result relates only to the sa	mple tested.	AT .		

Reviewed By:

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FORMAT NO: ENV/FM/38

Name of the Industry	:	Shakambhari Is	spat & Pow	er I	td. (Ferro Division)	Туре	of In	dustry		:	Steel & Po	wer	· Unit
Address	:	Vill. – Madandi	h, P.O. – Ba	rtoı	ria, P.S. – Neturia,	Sampl	ing l	Date			23.02.202	3	
		Dist – Purulia, ((WB)- 723	121		Period	d of A	Analys	is	:	25.02.202	3 –	25.02.2023
						Date o	of Iss	ue	ĕ	:	27.02.202	3	
Sampling Plan &	:	ENV/SOP/01	Deviation	fro	om the Sampling Method ar	nd Plan	:	No	T	уре	of Sample	:	Stack
Procedure		•			_				d	7			Emission
Sample Condition	:	Sealed Samp	le ID No.	:	ENV/63/Feb./A/X	Repor	t No		E	NV/	63/Feb./TR	(A)	/X/22 - 23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF (No.4)				
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	32.	0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	1.8	0
Capacity	:	9.0 MVA	Height of sampling port (mtr.) (from G.L.)	:	22.	0
Emission Due to	:	Reduction of Si-Mn Ore	The second section is			
Fuel Used	:	N.A. (Electrically Operated)	Permanent Platform & Ladde	r	1:	Yes
Working Fuel Consumption	:	Nil				
Pollution Control Device	:	F. D. Cooler and Pulse Jet Bag Filter				

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	69.0
2.	Barometric Pressure	mm of Hg.	And the second second	:	758.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	7.74
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	61564.72
5.	Concentration of SO ₂	mg/Nm³	IS 11255 (Part 2) 1985 RA 2003	:	339.73
6.	Concentration of Particulate	mg/Nm³	IS 11255 (Part - 1): 2019 & ASTM D 3685/D	:	28.12
	Matter	100	3685M-98 (reapproved 2005) : Sec. 11		
			(Vol.11.07): 2017		

Remarks: Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

Authorised Signatory:

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Dr. AJOY PAUL Quality Manager

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi





FORMAT NO: ENV/FM/38

Name of the Industry	:	Shakambhari Is	spat & Pow	er I	td.	Т	Гуре of	Inc	lustry		:	Steel & Po	wer	Unit
Address	:	Vill. – Madandi Dist – Purulia, (•		ria, P.S. – Neturia,	_	Samplir Period (s	:	22.02.202: 25.02.202:	_	25.02.2023
						D	Date of	Issı	ıe	X)	:	27.02.2023	3	
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation	ı fro	om the Sampling Method an	nd l	Plan	:	No	Ту	ре	of Sample	:	Stack Emission
Sample Condition	:	Sealed Samp	le ID No.	:	ENV/63/Feb./A/XV	R	Report	No.		EN	IV/	63/Feb./TR	(A)	/XV/22 - 23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	CFBC Boiler				
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	92.0	
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	2.60	
Capacity	:	100 TPH	Height of sampling port (mtr.) (from G.L.)	:	51.2	
Emission Due to	:	Combustion of Coal & Dolochar	The Company of the Co			
Fuel Used	:	Coal & Dolochar	Permanent Platform & Lad	lder	:	Yes
Working Fuel Consumption	:	Coal – 12.5MT/hr. & Dolochar – 8.33 MT/hr.				
Pollution Control Device	:	E.S.P				

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.	AL STREET				
1.	Flue Gas Temperature	оС	IS : 11255 (Part 1)	:	190.0
2.	Barometric Pressure	mm of Hg.		:	758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	:	12.20
4.	Quantity of Gas flow	Nm³/hr.	IS : 11255 (Part III)	:	148932.11
5.	Concentration of SO_2 (at 6% O_2)	mg/Nm ³	IS 11255 (Part 2) : 2019	:	148.50
6.	Concentration of NO _x (at 6% O ₂)	mg/Nm³	IS 11255 (Part 7): 2017 / ASTM D 1608-98,	:	60.20
		No. 27 1	Sec. 11 (Vol. 11.07) : 2017		
7.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	:	11.4
8.	Concentration of O ₂	% (v/v)	EPA Method 3 : 2017	:	6.4
9.	Concentration of CO	%(v/v)	IS 13270 : 2019	:	<1.0
10.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D	:	21.22
	Matter		3685M-98 (reapproved 2005) : Sec. 11		
	b) Concentration of Particulate	mg/Nm³	(Vol.11.07) : 2017	:	21.80
	Matter (at 6% O ₂)	100	-		

: Result relates only to the sample tested.

Reviewed By:

Remarks

Authorised Signatory:

Mark

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

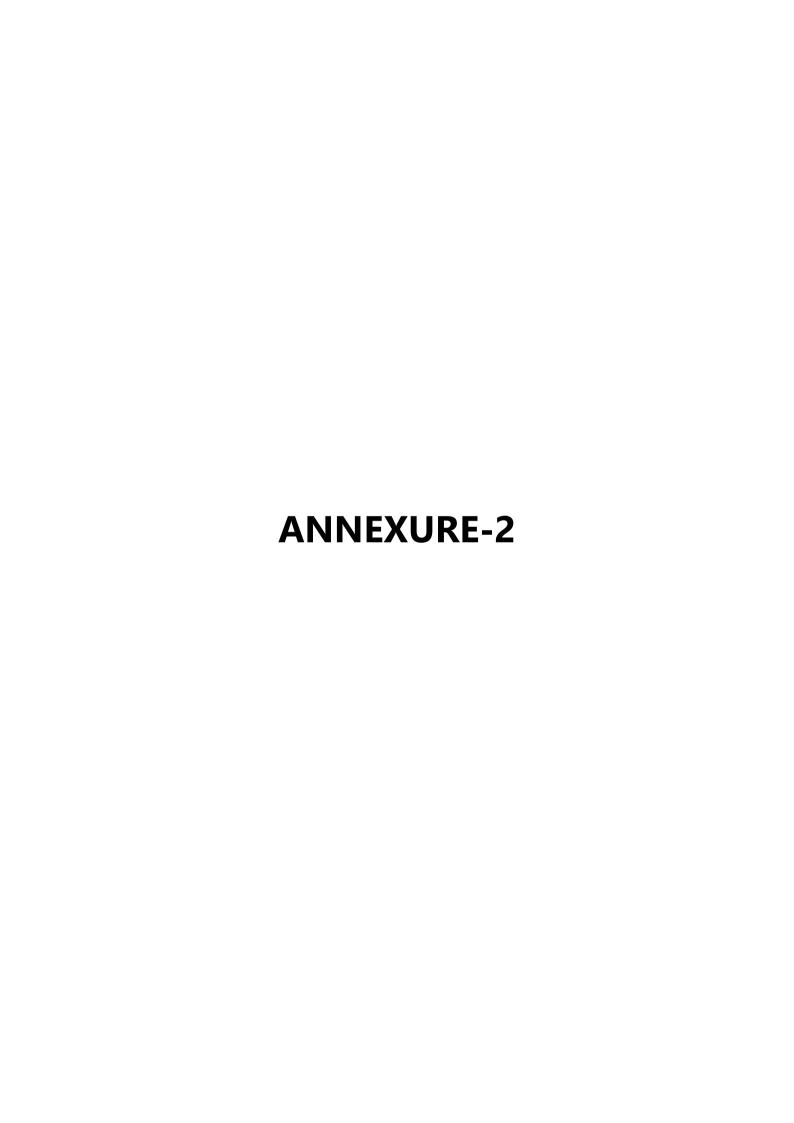
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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambh	hari Is _l	pat & Pow	er I	.td.	Туре	of In	dustry	7	:	Steel & Po	wer	Unit
Address	:	Vill. – Mad	dandih	ı, P.O. – Ba	rtoi	ria, P.S. – Neturia,	Samp	ling	Date		:	23.02.2023	3	
		Dist – Pur	rulia, (Y	WB)- 723	121		Perio	d of	Analys	is	7	25.02.2023	3 – 2	25.02.2023
							Date	of Iss	ue	d		27.02.2023	3	
Sampling Plan &	:	ENV/SOP,	/01	Deviation	ı fro	m the Sampling Method an	ıd Plan	:	No	T	ype	of Sample		Work Zone Air
Procedure														
Sample Condition	:	Sealed S	Sample	e ID No.	:	ENV/63/Feb./A/XIV	Repo	rt No		E	NV/	63/Feb./TR	(A)	/XIV/22-23

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Rolling Mill Division

2. Duration of Sampling : 08 hrs. (09:50 a.m. – 05:50 p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 30.0
 Average Relative Humidity (%) : 72.0

3. Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULT

SL NO	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	μg/m³	IS 5182 (Part 4) : 2019	361.56

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical **Authorised Signatory:**

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Dr. AJOY PAUL Quality Manager

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Branch Office: Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi









FORMAT NO: ENV/FM/57

Name of the Industry	i	Shakambhari Is	spat & Power Ltd.		Туре о	f In	dustry	· :	Steel & Po	wer	Unit
Address	:	Vill. – Madandi	h, P.O. – Bartoria, P.S. – Neturia,		Sampli	ng l	Date	:	23.02.202	3	# #
7 - 7		Dist – Purulia, ((WB)- 723121		Period	of A	analys	is :	25.02.202	3 –	25.02.2023
					Date of	Iss	ue	:	27.02.202	3	
Sampling Plan &	:	ENV/SOP/01	Deviation from the Sampling Mo	ethod ar	nd Plan	:	No	Туре	of Sample	:	Work Zone Air
Procedure									_		
Sample Condition	:	Sealed Samp	le ID No. : ENV/63/Feb./A/	XIV	Report	No		ENV	/63/Feb./TF	(A)	/XIV/22-23

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Rolling Mill Division

2. Duration of Sampling : 08 hrs. (09:50 a.m. – 05:50 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 30.0

Average Relative Humidity (%) : 72.0
 Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11	11.80
	· A		(Vol. 11.07): 2017	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11	26.52
		1	(Vol. 11.07) : 2018	

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical Authorised Signatory:

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FORMAT NO: ENV/FM/57

Name of the	:	Shakambhari Is	spat & Pov	er I	_td.		Type o	f In	dustry	,	:	Steel & Po	wer	Unit
Industry												200		
Address	:	Vill. – Madandi	h, P.O. – Ba	rtoi	ria, P.S. – Neturia,		Sampli	ng I	Date		:	23.02.202	3	
		Dist – Purulia, ((WB)- 723	121	•		Period	of A	nalys	is		25.02.202	3 – 3	25.02.2023
						Ī	Date of	f Iss	ue	3	: 1	27.02.202	3	
Sampling Plan &	:	ENV/SOP/01	Deviation	ı fro	om the Sampling Method	an	d Plan	:	No	Ty	ре	of Sample	:	Work Zone Air
Procedure										۲.	ÿ-	_		
Sample Condition	:	Sealed Samp	le ID No.		ENV/63/Feb./A/XV		Report	: No		EN	IV/	63/Feb./TR	(A)	/XV/22-23

A] GENERAL INFORMATION

1. Location of Sampling : Near Control Room (SMS Division)

2. Duration of Sampling : 08 hrs. (10:00 a.m. – 06:00 p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 28.0
 Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

Cl RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	μg/m³	IS 5182 (Part 4) : 2019	210.80

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical **Authorised Signatory:**

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FORMAT NO : ENV/FM/57

Name of the Industry	i	Shakambhari Is	spat & Pow	er I	Ltd.		Type of	Inc	lustry		:	Steel & Po	wer	Unit
Address	:	Vill. – Madandi	h, P.O. – Ba	rto	ria, P.S. – Neturia,		Samplin	ıg [ate			23.02.2023	3	25
Y-11		Dist – Purulia, ((WB)- 723	121			Period o	of A	nalys	is	:	25.02.202	3 – 2	25.02.2023
							Date of	Issi	ıе	1	:	27.02.2023	3	
Sampling Plan &	:	ENV/SOP/01	Deviation	ı fro	om the Sampling Method a	ınd	l Plan	:	No	Ту	ре	of Sample	:	Work Zone Air
Procedure									100	d		_		
Sample Condition	:	Sealed Samp	le ID No.	:	ENV/63/Feb./A/XV		Report 1	No.	:	EN	1V/	63/Feb./TR	(A)	/XV/22 - 23

A] GENERAL INFORMATION

1. Location of Sampling : Near Control Room (SMS Division)

2. Duration of Sampling : 08 hrs. (10:00 a.m. – 06:00 p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 28.0
 Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11	9.52
	. A.		(Vol. 11.07) : 2017	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11	28.50
			(Vol. 11.07) : 2018	

Remarks : Result relates only to the sample tested.

Reviewed By:

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi





FORMAT NO: ENV/FM/57

Name of the	:	Shakambhari Is	spat & Pov	er I	_td.		Type o	f In	dustry		:	Steel & Po	wer	Unit
Industry												100		
Address	:	Vill. – Madandi	h, P.O. – Ba	rto	ria, P.S. – Neturia,		Sampli	ng I	Date		:	23.02.202	3	
		Dist – Purulia, ((WB)- 723	121	•		Period	of A	nalys	is		25.02.202	3 – 3	25.02.2023
							Date of	f Iss	ue	1		27.02.202	3	
Sampling Plan &	:	ENV/SOP/01	Deviation	ı fro	om the Sampling Method	and	d Plan	:	No	Ту	ре	of Sample	:	Work Zone Air
Procedure											7	_		
Sample Condition	:	Sealed Samp	le ID No.	:	ENV/63/Feb./A/XVI		Report	: No		EN	IV/	63/Feb./TR	(A)	/XVI/22-23

A] GENERAL INFORMATION

1. Location of Sampling : Infront of MCC Control Room (DRI – 2 x 350 TPD)

2. Duration of Sampling : 08 hrs. (10:10 a.m. – 06:10 p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 26.0
 Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULT

SL NO	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	μg/m³	IS 5182 (Part 4) : 2019	260.10

Remarks : Result relates only to the sample tested.

Reviewed By:

 INDRANI BHATTACHARYA Dy. Technical Manager, Chemical **Authorised Signatory:**

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi









FORMAT NO : ENV/FM/57

Name of the Industry	i	Shakambha	ari Ispat & Po	wer	Ltd.	Туре	of In	dustry	7	:	Steel & Po	wer	Unit
Address	:	Vill. – Mada	andih, P.O. –	3arto	oria, P.S. – Neturia,	Sampl	ing l	Date			23.02.2023	3	£ #
5-11	-	Dist – Purul	lia, (WB)- 7	2312	1	Period	l of A	Analys	is	N.	25.02.2023	3 – 2	25.02.2023
						Date o	f Iss	ue	J	:	27.02.2023	3	
Sampling Plan &	:	ENV/SOP/0	01 Deviat	on fr	om the Sampling Method ar	nd Plan	:	No	Ту	ре	of Sample		Work Zone Air
Procedure													
Sample Condition	:	Sealed Sa	ample ID No.	:	ENV/63/Feb./A/XVI	Repor	t No		Eľ	VV/	63/Feb./TR	(A)	/XVI/22-23

A] GENERAL INFORMATION

1. Location of Sampling : Infront of MCC Control Room (DRI – 2 x 350 TPD)

2. Duration of Sampling : 08 hrs. (10:10 a.m. – 06:10 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 26.0

Average Relative Humidity (%) : 70.0
 Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11	8.20
	- A		(Vol. 11.07): 2017	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11	26.56
		1	(Vol. 11.07): 2018	

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical **Authorised Signatory:**

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FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakaml	bhari Is	spat & Pow	er I	.td.	Туре	of In	dustry	7	:	Steel & Po	wer	Unit
Address	:	Vill. – Ma	adandi	h, P.O. – Ba	rto	ria, P.S. – Neturia,	Samp	ling	Date		:	23.02.202	3	
		Dist – Pu	ırulia, ((WB)- 723	121		Perio	d of	Analys	is	87	25.02.202	3 – 3	25.02.2023
							Date	of Iss	sue	d		27.02.202	3	
Sampling Plan &	:	ENV/SO	P/01	Deviation	ı fro	m the Sampling Method an	ıd Plan	:	No	T	ype	of Sample	::	Work Zone Air
Procedure									1.0	4	7			
Sample Condition	:	Sealed	Samp	le ID No.	:	ENV/63/Feb./A/XVII	Repo	rt No	:	E	NV/	63/Feb./TR	(\overline{A})	/XVII/22 - 23

A] GENERAL INFORMATION

1. Location of Sampling : Inbetween CPP – 12 MW & DRI – 100 TPD

2. Duration of Sampling : 08 hrs. (10:25 a.m. – 06:25 p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 25.0
 Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	μg/m³	IS 5182 (Part 4) : 2019	380.12

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical **Authorised Signatory:**

Hour

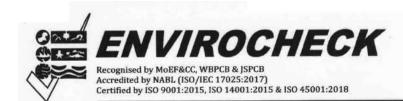
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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi









FORMAT NO: ENV/FM/57

Name of the Industry	i	Shakambhari Is	spat & Pov	er I	Ltd.	Туре	of In	dustry	7		Steel & Po	wer	Unit
Address	:	Vill. – Madandi	h, P.O. – Ba	rto	ria, P.S. – Neturia,	Samp	ling	Date		J.	23.02.202	3	
Val-		Dist – Purulia, ((WB)-723	121		Perio	d of	Analys	is	:	25.02.202	3 – 3	25.02.2023
						Date o	of Iss	ue	10	:	27.02.202	3	
Sampling Plan &	:	ENV/SOP/01	Deviation	ı fro	om the Sampling Method ar	nd Plan	1:	No	Ty	уре	of Sample	:	Work Zone Air
Procedure													
Sample Condition	:	Sealed Samp	le ID No.	:	ENV/63/Feb./A/XVII	Repoi	t No		El	NV/	63/Feb./TR	(A)	/XVII/22-23

A] GENERAL INFORMATION

1. Location of Sampling : Inbetween CPP – 12 MW & DRI – 100 TPD

2. Duration of Sampling : 08 hrs. (10:25 a.m. – 06:25 p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 25.0
 Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL, PARAMETERS NO.	UNIT	METHOD NO.	RESULTS
. Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11	16.50
. A.		(Vol. 11.07) : 2017	
Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11	36.10
		(Vol. 11.07) : 2018	

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical **Authorised Signatory:**

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FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambhari Is	Type of Industry					Steel & Power Unit					
Address	:	Vill. – Madandi	Sampling Date					23.02.2023					
		Dist – Purulia, (Period of Analysis					25.02.2023 - 25.02.2023				
						Date of Issue					27.02.202	3	
Sampling Plan &	:	ENV/SOP/01	ENV/SOP/01 Deviation from the Sampling Method an					No	Ту	ре	of Sample	:	Work Zone Air
Procedure									N				
Sample Condition	:	Sealed Samp	le ID No. :	ENV/63/Feb./A/XVIII		Report	: No	181	EN	IV/	63/Feb./TR	(A)	/XVIII/22 - 23

A] GENERAL INFORMATION

1. Location of Sampling : Near SEAF Control Room (Ferro Alloy Division)

2. Duration of Sampling : 08 hrs. (10:30 a.m. – 06:30 p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 26.0
 Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	μg/m³	IS 5182 (Part 4) : 2019	281.58

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical **Authorised Signatory:**

Dr. AJOY PAUL

Quality Manager









FORMAT NO: ENV/FM/57

Name of the Industry		Shakambhari Is	Type of Industry					Steel & Power Unit					
Address	:	Vill. – Madandi	rto	ria, P.S. – Neturia,	Sampling Date					23.02.2023			
100		Dist – Purulia, ((WB)-723	121		Period of Analysis					25.02.2023 - 25.02.2023		
L K						Date of Issue					27.02.202	3	
Sampling Plan &	:	ENV/SOP/01	Deviation	ı fro	om the Sampling Method ar	nd Plan	:	No	Ty	<i>т</i> ре	of Sample	:	Work Zone Air
Procedure													
Sample Condition	:	Sealed Samp	led Sample ID No. : ENV/63/Feb./A/XVIII							ENV/63/Feb./TR(A)/XVIII/22-23			

A] GENERAL INFORMATION

1. Location of Sampling : Near SEAF Control Room (Ferro Alloy Division)

2. Duration of Sampling : 08 hrs. (10:30 a.m. – 06:30 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 26.0

Average Relative Humidity (%) : 70.0
 Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11	12.57
	^_		(Vol. 11.07): 2017	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11	31.80
		76	(Vol. 11.07) : 2018	

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical **Authorised Signatory:**

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi





FORMAT NO: ENV/FM/57

Name of the	:	Shakambhari Is	Type of Industry					Steel & Power Unit							
Industry												20			
Address	:	Vill. – Madandi	Sampling Date					22.02.2023							
		Dist – Purulia, (Purulia, (WB)– 723121						Period of Analysis				25.02.2023 – 25.02.2023		
							Date of Issue					27.02.202	3		
Sampling Plan &	:	ENV/SOP/01	Deviation	Deviation from the Sampling Method ar					No	Ту	тре	of Sample	:	Work Zone Air	
Procedure										Ø.	Ø				
Sample Condition	:	Sealed Samp	le ID No.		Report No. : EN			IV/	63/Feb./TR	(A)	/XIX/22-23				

A] GENERAL INFORMATION

1. Location of Sampling : Coal Shed Area (Raw Materials Handling Shed)

2. Duration of Sampling : 08 hrs. (10:30 a.m. – 06:30 p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 24.0
 Average Relative Humidity (%) : 64.0

3. Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	μg/m³	IS 5182 (Part 4) : 2019	461.56

Remarks : Result relates only to the sample tested.

Reviewed By:

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi









FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambhari Is	spat & Pow	er I	.td.	Type	of In	dustry	7	:	Steel & Po	Steel & Power Unit		
Address	:	Vill. – Madandi	h, P.O. – Ba	rtoı	ria, P.S. – Neturia,	Sampl	ing l	Date		: 22.02.2023				
		Dist – Purulia, ((WB)-723	121		Period	l of A	Analys	is		25.02.2023 - 25.02.2023			
						Date o	f Iss	ue		:	27.02.2023			
Sampling Plan &	:	ENV/SOP/01	Deviation	ı fro	om the Sampling Method a	nd Plan	:	No	Ту	ре	of Sample	:	Work Zone Air	
Procedure											·			
Sample Condition	:	Sealed Samp	ole ID No. : ENV/63/Feb./A/XIX Report No. : EN							VV/	7/63/Feb./TR(A)/XIX/22-23			

A] GENERAL INFORMATION

1. Location of Sampling : Coal Shed Area (Raw Materials Handling Shed)

2. Duration of Sampling : 08 hrs. (10:30 a.m. – 06:30 p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 24.0
 Average Relative Humidity (%) : 64.0

3. Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11	12.80
	. A.		(Vol. 11.07) : 2017	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11	28.52
		1	(Vol. 11.07) : 2018	

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical **Authorised Signatory:**

Dr. SUMIT CHOWDHURY
Technical Manager

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FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakaml	bhari Is	spat & Pow	er I	.td.	Туре	of In	dustry	,	:	: Steel & Power Unit			
Address	:	Vill. – Ma	adandi	h, P.O. – Ba	rto	ria, P.S. – Neturia,	Samp	ling	Date		:	22.02.2023			
		Dist – Pu	ırulia, ((WB)- 723	121		Perio	d of	Analys	is		25.02.2023 – 25.02.2023			
							Date	of Is:	sue	1		27,02,2023			
Sampling Plan &	:	ENV/SO	P/01	Deviation	ı fro	m the Sampling Method an	d Plan	:	No	Type of Sample			:	Work Zone Air	
Procedure									- 4		9-				
Sample Condition	:	Sealed	Samp	le ID No.	:	ENV/63/Feb./A/XX	Repo	rt No). :	E	NV/	63/Feb./TR	(A)	/XX/22 - 23	

A] GENERAL INFORMATION

1. Location of Sampling : Near Cooler Discharge (DRI – 350 TPD)

2. Duration of Sampling : 08 hrs. (10:40 a.m. – 06:40 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 27.0

Average Relative Humidity (%) : 70.0
 Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	μg/m³	IS 5182 (Part 4) : 2019	210.80

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical **Authorised Signatory:**

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FORMAT NO: ENV/FM/57

Name of the Industry		Shakambhari I	spat & Pov	ver l	Ltd.	Тур	e of I	Ind	ustry	j	Steel & Power Unit			
Address	:	Vill. – Madandi	h, P.O. – Ba	irto	ria, P.S. – Neturia,	Sam	pling	g D	ate	:	22.02.2023			
175-111		Dist – Purulia,	(WB)- 723	121		Peri	od o	f A	nalysis		25.02.2023 – 25.02.2023			
						Date of Issue					27.02.2023			
Sampling Plan &	:	ENV/SOP/01	Deviation	n fro	om the Sampling Method an	ıd Pla	n :	: [No 7	ype	of Sample	:	Work Zone Air	
Procedure									18					
Sample Condition	:	Sealed Samp	le ID No.	:	ENV/63/Feb./A/XX	Rep	ort N	lo.	: I	ENV/	63/Feb./TR	/XX/22-23		

A]	GENERAL INFORMATION
1	I CC 1:

1. Location of Sampling : Near Cooler Discharge (DRI – 350 TPD)

2. Duration of Sampling : 08 hrs. (10:40 a.m. – 06:40 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 27.0

Average Relative Humidity (%) : 70.0
 Barometric Pressure (mm of Hg) : 758.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. PARAMETERS NO.	UNIT	METHOD NO.	RESULTS
Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11	8.20
. AS		(Vol. 11.07) : 2017	
2. Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11	32.50
	1	(Vol. 11.07) : 2018	

Remarks : Result relates only to the sample tested.

Reviewed By:

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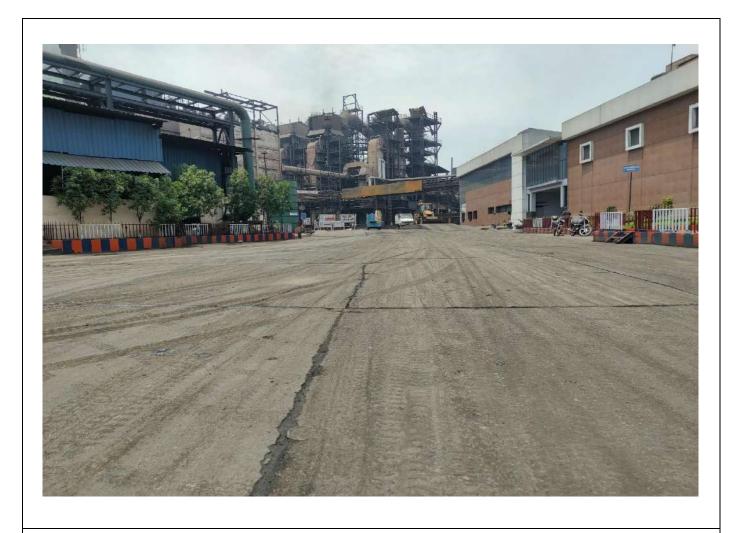
RCC ROAD & PAVER BLOCK AREA INSIDE PLANT













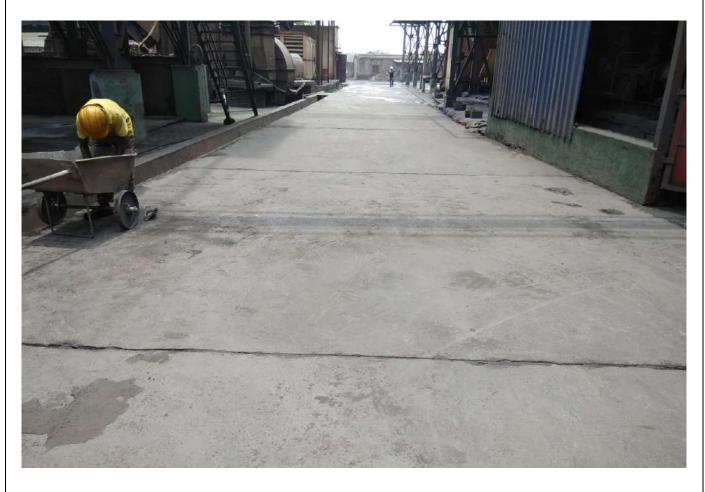
























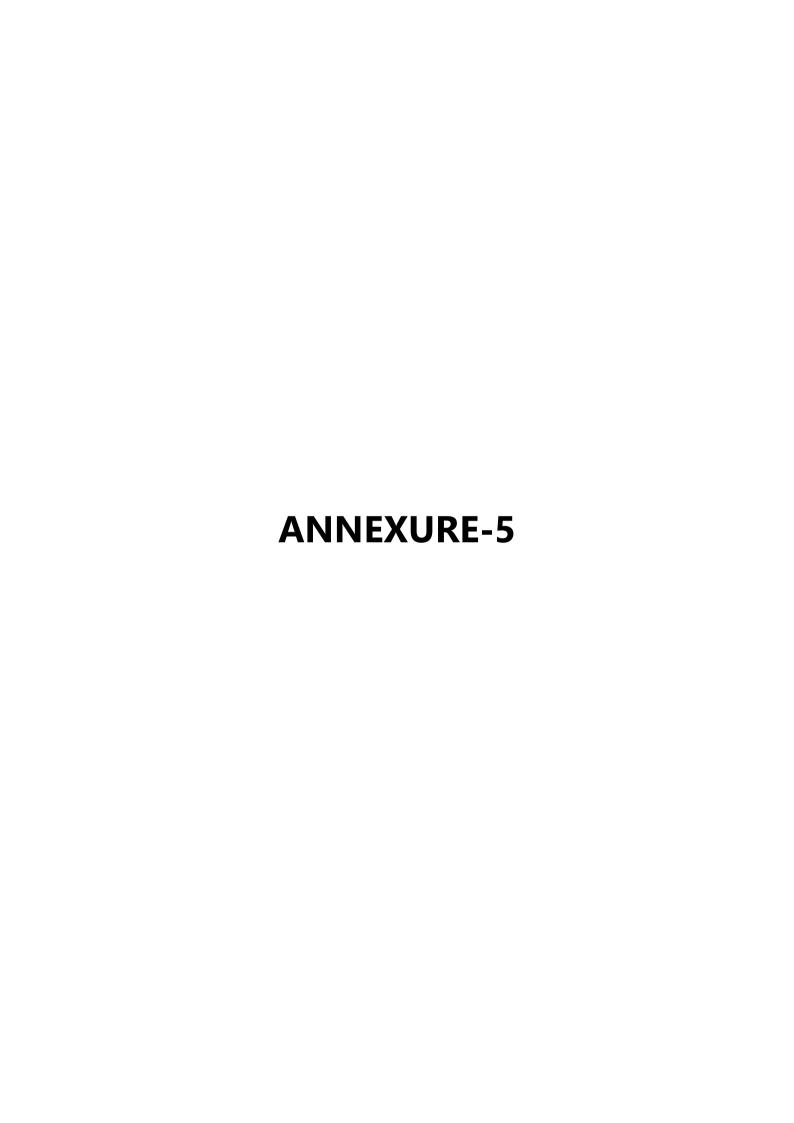


TRUCK PARKING AREA



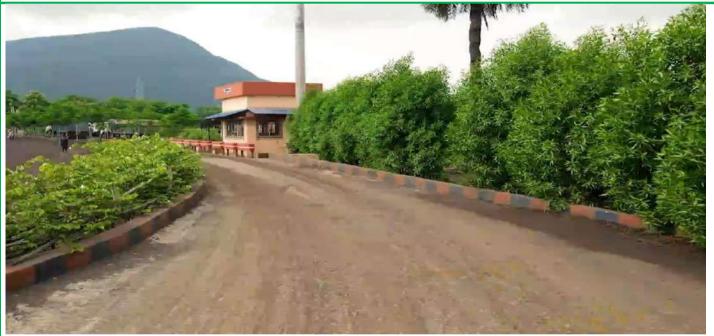






GREENBELT PHOTOGRAPHS































FORMAT NO: ENV/FM/37

Name of the	:	Shakambhari I	spat & Pov	ær l	.td.	Туре о	f In	dustry	•	:	Steel & Po	wei	· Unit	
Industry											(07)			
Address	:	Vill. – Madand	ih, P.O. – Ba	rto	ria, P.S. – Neturia,	Sampli	ng I	Date			22.02.2023 - 23.02.2023			
		Dist – Purulia,	(WB) - 723	121		Period	Period of Analysis				25.02.2023 – 25.02.2023			
						Date of	Iss	ue	38		27.02.2023			
Sampling Plan &	:	ENV/SOP/01	Deviation	ı fro	om the Sampling Method an	ıd Plan	:	No	Type of Sample			:	Ambient Air	
Procedure										7				
Sample Condition	:	Sealed Samp	le ID No.	:	ENV/63/Feb./A/XI	A/XI Report No. : ENV/63/Feb./TR(A)/X					/XI/22 - 23			

A] GENERAL INFORMATION

Location of Sampling
 Near Security Gate (Southern Side)
 Duration of Sampling
 24 hrs. (09:00 a.m. – 09:00 a.m.)

B] METEOROLOGICAL INFORMATION

1.Average Temperature (°C): 23.02.Average Relative Humidity (%): 64.03.Barometric Pressure (mm of Hg): 758.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Clear

C] RESULTS

SL NO	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	μg/m³	IS 5182 (Part 24) : 2019	36.20
2.	Concentration of PM ₁₀	μg/m ³	IS 5182 (PART 23): 2019	74.10
3.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	16.23
4.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	32.56
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.42
6.	Concentration of Pb	μg/m ³	IS 5182 (Part 22) : 2019	< 0.01
7.	Benzo (a) Pyrene (BaP)	ng/m³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vo. 11.07) : 2021	<0.36
8.	Benzene (C ₆ H ₆)	μg/m³	IS 5182 (Part 11) 2017 & ÁSTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O ₃)	μg/m³	IS 5182 (Part-9) : 2019	<10.0
10.	Ammonia (NH3)	μg/m ³	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m³	EPA IO 3.2, 1999 & APHA 23rd Ed 3114C: 2017	< 0.01

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Blattackeryja

Authorised Signatory:

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Dr. AJOY PAUL Quality Manager

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FORMAT NO: ENV/FM/37

Name of the	:	Shakaml	bhari I	spat & Pow	er I	Ltd.		Type o	f Ind	dustry		:				
Industry													207			
Address	:	Vill. – Ma	adandi	h, P.O. – Ba	rto	ria, P.S. – Neturia,		Sampli	ng I	Date			: 22.02.2023 – 23.02.2023			
		Dist – Pu	ırulia,		Period	of A	nalys	is	10	: 25.02.2023 - 25.02.2023						
								Date of	Iss	ue	: 27.02.2023					
Sampling Plan &	:	ENV/SO	P/01	Deviation	ı fro	om the Sampling Method a	nc	d Plan	:	No	Type of Sample			:	Ambient Air	
Procedure										12		7				
Sample Condition	:	Sealed	Samp	le ID No.	:	ENV/63/Feb./A/XII		Report	No.		E	VV/	63/Feb./TR	(A)	/XII/22 - 23	

A] GENERAL INFORMATION

1. Location of Sampling : Near Laboratory Buildings (SMS Division) (Northern Side)

2. Duration of Sampling : 24 hrs. (09:30 a.m. – 09:30 a.m.)

B] METEOROLOGICAL INFORMATION

1.Average Temperature (°C): 22.02.Average Relative Humidity (%): 62.03.Barometric Pressure (mm of Hg): 758.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Clear

C] RESULTS

SL NO	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	μg/m³	IS 5182 (Part 24) : 2019	33.50
2.	Concentration of PM ₁₀	μg/m ³	IS 5182 (PART 23): 2019	72.50
3.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	8.33
4.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	26.44
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.26
6.	Concentration of Pb	μg/m ³	IS 5182 (Part 22) : 2019	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vo. 11.07) : 2021	<0.36
8.	Benzene (C ₆ H ₆)	μg/m³	IS 5182 (Part 11) 2017 & ÁSTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O ₃)	μg/m³	IS 5182 (Part-9) : 2019	<10.0
10.	Ammonia (NH3)	μg/m ³	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m³	EPA IO 3.2, 1999 & APHA 23rd Ed 3114C: 2017	<0.01

Remarks : Result relates only to the sample tested.

Reviewed By:

 INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Blattackeryja

Authorised Signatory:

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FORMAT NO: ENV/FM/37

Name of the Industry	:	Shakambhari	Ispat & Pov	/er l	.td.	Туре о	f Inc	lustry	•	:	: Steel & Power Unit			
Address	:	Vill. – Madano	ih, P.O. – Ba	rto	ria, P.S. – Neturia,	Sampli	ng I	ate		:	22.02.2023 - 23.02.2023			
		Dist – Purulia	(WB) - 723	121		Period	eriod of Analysis : 25.02.2023 - 25.02.2023					25.02.2023		
						Date of	Iss	ue	j)		27.02.2023			
Sampling Plan &	:	ENV/SOP/01	Deviation	ı fro	m the Sampling Method an	ıd Plan	:	No	Type of Sample			:	Ambient Air	
Procedure								1.0	4.3	7				
Sample Condition	:	Sealed Sam	nple ID No. : ENV/63/Feb./A/XIII Report No. : ENV/63/Feb./TR((A)	/XIII/22-23					

A] GENERAL INFORMATION

Location of Sampling
 Madandih Village (05 km. from Plant)
 Duration of Sampling
 24 hrs. (10:00 a.m. – 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

1.Average Temperature (°C): 22.02.Average Relative Humidity (%): 64.03.Barometric Pressure (mm of Hg): 758.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Clear

C] RESULTS

SL NO	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	μg/m³	IS 5182 (Part 24) : 2019	31.80
2.	Concentration of PM ₁₀	μg/m ³	IS 5182 (PART 23): 2019	68.50
3.	Concentration of SO ₂	μg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	7.05
4.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	25.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 2019	0.20
6.	Concentration of Pb	μg/m ³	IS 5182 (Part 22) : 2019	< 0.01
7.	Benzo (a) Pyrene (BaP)	ng/m³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vo. 11.07) : 2021	<0.36
8.	Benzene (C ₆ H ₆)	μg/m³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O ₃)	μg/m³	IS 5182 (Part-9) : 2019	<10.0
10.	Ammonia (NH3)	μg/m³	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m³	EPA IO 3.2, 1999 & APHA 23rd Ed 3114C: 2017	< 0.01

Remarks : Result relates only to the sample tested.

Reviewed By:

 INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Blattackeryja

Authorised Signatory:

Hard

Dr. AJOY PAUL Quality Manager

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi





FORMAT NO: ENV/FM/37

Name of the	:	Shakambhari Is	spat & Pow	er I	Ltd.	Туре	of In	dustry	7	:	Steel & Po	wei	· Unit
Industry											200		
Address	:	Vill. – Madandi	h, P.O. – Ba	rtoi	ria, P.S. – Neturia,	Sampling Date			:	22.02.2023 - 23.02.2023			
		Dist – Purulia, ((WB)- 723	121		Perio	Period of Analysis			. 6	25.02.2023 – 25.02.2023		
						Date	Date of Issue			:	27.02.202	3	
Sampling Plan &	:	ENV/SOP/01	Deviation	ı fro	om the Sampling Method a	nd Plan	:	No	Ту	ре	of Sample	:	Ambient Air
Procedure						2/0			7	_			
Sample Condition	:	Sealed Samp	le ID No.	:	ENV/63/Feb./A/XIV	Report No. : El			VV/	63/Feb./TR	(A)	/XIV/22-23	

A] GENERAL INFORMATION

1. Location of Sampling : Back Side of the Captive Power Plant (Western Side)

2. Duration of Sampling : 24 hrs. (10:30 a.m. – 10:30 a.m.)

B] METEOROLOGICAL INFORMATION

1.Average Temperature (°C): 23.02.Average Relative Humidity (%): 67.03.Barometric Pressure (mm of Hg): 758.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Clear

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	μg/m ³	IS 5182 (Part 24) : 2019	46.20
2.	Concentration of PM ₁₀	μg/m ³	IS 5182 (PART 23): 2019	73.50
3.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	11.75
4.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	30.57
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.40
ó.	Concentration of Pb	μg/m ³	IS 5182 (Part 22) : 2019	< 0.01
7.	Benzo (a) Pyrene (BaP)	ng/m³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vo. 11.07) : 2021	<0.36
3.	Benzene (C ₆ H ₆)	μg/m³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
Э.	Ozone (O ₃)	μg/m³	IS 5182 (Part-9) : 2019	<10.0
LO.	Ammonia (NH ₃)	μg/m ³	IS 5182 (Part 25) : 2018	<4.18
l 1.	Nickel (Ni)	ng/m³	EPA IO 3.2, 1999	< 0.02
12.	Arsenic (As)	ng/m³	EPA IO 3.2, 1999 & APHA 23rd Ed 3114C: 2017	< 0.01

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

Indraui Blattackeryja

Authorised Signatory:

Hand

Dr. AJOY PAUL Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 = Ph. 033 25792891/ 25497490 = Fax : 033 25299141

Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 = Ph. 033 25792889

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi

ANNEXURE-7A, 7B, 7C





TEST REPORT

Name of the Industry	:	Shakambhari I	spat& Power Ltd.		Type	of Industry	:	Steel & Power Unit
Address	:	Vill Madand	ih, P.O. – Bartoria, P.	.S.	Sampl	ing Date	:	23.02.2023
		– Neturia,Dist	– Purulia(WB)–		Period	l of Analysis	:	24.02.2023 - 02.03.2023
		723121			Date o	f Issue	:	03.03.2023
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan		No	Type of Sample		Industrial Effluent Water (Grab)
Location :	Ε.	T.P Inlet	Sample Condition		: Se	ealed Sample I	D N	No. : ENV/1001C/Feb./W/I
Report No.		: ENV/10010	C/Feb./TR(W)/I/22	-23				

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	рН	4500H+B APHA 23rdEdition, 2017	<u> </u>	5.20
2.	Total Suspended Solids	2540 D APHA 23rdEdition, 2017	mg/l	110.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	15.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23rdEdition, 2017	mg/l	510.0
5.	Biochemical Oxygen	5210 B APHA 23 rd Edition, 2017	mg/l	<2.0
	Demand for 5 days at 20°C			

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager **Authorised Signatory:**

Many

Dr. AJOY PAUL Quality Manager

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TEST REPORT

Name of the Industry	:	Shakambhari I	spat& Power Ltd.	Туре	of Industry	:	Steel & Power Unit
Address	:	Vill. – Madandi	h, P.O. – Bartoria, P.S.	Samp	ling Date	:	23.02.2023
		– Neturia,Dist	- Purulia(WB)-	Perio	d of Analysis	:	24.02.2023 - 02.03.2023
		723121		Date	of Issue	:	03.03.2023
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from : the Sampling Method and Plan	No	Type of Sample		Industrial Effluent Water (Grab)
Location :	E.	T.P Outlet	Sample Condition	: 5	sealed Sample	ID N	lo. : ENV/1001C/Feb./W/II
Report No.		: ENV/10010	C/Feb./TR(W)/II/22-2	23	_		

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	рН	4500H+B APHA 23rdEdition, 2017	-31	6.80
2.	Total Suspended Solids	2540 D APHA 23rdEdition, 2017	mg/l	36.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	3.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	110.0
5.	Biochemical Oxygen Demand	5210 B APHA 23 rd Edition, 2017	mg/l	<2.0
	for 5 days at 20°C			

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager **Authorised Signatory:**

Many

Dr. AJOY PAUL Quality Manager

<End of Report>

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Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792889

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi





TEST REPORT

Name of the Industry) :	S	hakambhari Ispa	t& Power Ltd.			Туре	of Industry		:	Steel & Power Unit
Address	:	V	ill. – Madandih, l	P.O. – Bartoria, P.S. –			Sampl	ing Date		:	23.02.2023
		N	eturia,Dist - Pur	rulia (WB)- 723121			Period	l of Analysis		:	24.02.2023 - 03.03.2023
							Date o	of Issue		:	04.03.2023
Sampling Pl & Procedure		:	ENV/SOP/01	Deviation from the Sampling Method and			No	Type of Sample	l	:	Surface Water
				Plan							
Location	: F	onc	l at Madandih	Sample Condition	:	Se	ealed	Sample	:	EN	NV/1001B/Feb./W/M(i)
	V	'illa	ge					ID No.			
Report No.			ENV/1001B/	Feb./TR(W)/M(i)/22-2							

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	рН	APHA 23 rd Ed., 4500 H+B: 2017	-	7.10
2.	Total Suspended Solids	APHA 23 rd Ed., 2540 D: 2017	mg/l	28.0
3.	Total Dissolved Solids	IS 3025 (Part 16) : 1984 : 2014	mg/l	280.0
4.	Dissolved Oxygen	APHA 23 rd Ed., 4500 – OC : 2017	mg/l	7.2
5.	COD	APHA 23 rd Ed., 5220 B/C/D : 2017	mg/l	60.0
6.	BOD [5 Day's at 20°C]	APHA 23rd Ed., 5210 B: 2017	mg/l	<2.0
7.	Oil & Grease	APHA 23 rd Ed., 5520 B/D/: 2017	mg/l	<1.0
8.	Residual Chlorine	APHA 23 rd Ed., Cl-B: 2017	mg/l	< 0.04
9.	Chloride	APHA 23 rd Ed., 4500 Cl-B/D : 2017	mg/l	42.65
10.	Iron	APHA 23 rd Ed., 3111 B: 2017	mg/l	0.23
11.	Arsenic	APHA 23 rd Ed., 3114 B : 2017	mg/l	< 0.01
12.	Lead	APHA 23 rd Ed., 3111 B: 2017	mg/l	< 0.005
13.	Mercury	APHA 23rd Ed., 3112 B: 2017	mg/l	< 0.001
14.	Copper	APHA 23rd Ed., 3111 B: 2017	mg/l	< 0.001
15.	Zinc	APHA 23 rd Ed., 3111 B: 2017	mg/l	0.50
16.	Total Chromium	APHA 23 rd Ed., 3111 B : 2017	mg/l	< 0.02

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By:

DURBADAL CHAKRABORTY

Approved By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattacharyes

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi





TEST REPORT

Name of the Industry	:	Sl	hakambhari Ispa	t& Power Ltd.			Туре	of Industry	:	Steel & Power Unit
Address	:	V	ill. – Madandih, I	P.O. – Bartoria, P.S. –			Sampl	ing Date	:	23.02.2023
		N	eturia,Dist - Pur	ulia (WB)- 723121		ſ	Perioc	l of Analysis	:	24.02.2023 - 03.03.2023
							Date o	f Issue	:	04.03.2023
Sampling Plan & Procedure	1			:	No	Type of Sample	1	: Surface Water		
Location :	of		posite Sample lialization	Sample Condition		Se	ealed	Sample : ID No.	Е	NV/1001B/Feb./W/M(ii)
Report No.		:	ENV/1001B/	Feb./TR(W)/M(ii)/22-2	23		76			

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	рН	APHA 23 rd Ed., 4500 H+B: 2017		6.80
2.	Total Suspended Solids	APHA 23 rd Ed., 2540 D : 2017	mg/l	26.0
3.	Total Dissolved Solids	IS 3025 (Part 16): 1984: 2014	mg/l	1180.0
4.	Dissolved Oxygen	APHA 23 rd Ed., 4500 – OC : 2017	mg/l	6.2
5.	COD	APHA 23 rd Ed., 5220 B/C/D: 2017	mg/l	40.0
6.	BOD [5 Day's at 20°C]	APHA 23 rd Ed., 5210 B : 2017	mg/l	7.0
7.	Oil & Grease	APHA 23 rd Ed., 5520 B/D/: 2017	mg/l	<1.0
8.	Residual Chlorine	APHA 23 rd Ed., Cl-B : 2017	mg/l	<0.04
9.	Chloride	APHA 23 rd Ed., 4500 Cl-B/D: 2017	mg/l	275.89
10.	Iron	APHA 23 rd Ed., 3111 B : 2017	mg/l	0.80
11.	Arsenic	APHA 23 rd Ed., 3114 B : 2017	mg/l	<0.01
12.	Lead	APHA 23 rd Ed., 3111 B : 2017	mg/l	<0.005
13.	Mercury	APHA 23 rd Ed., 3112 B : 2017	mg/l	< 0.001
14.	Copper	APHA 23 rd Ed., 3111 B : 2017	mg/l	< 0.001
15.	Zinc	APHA 23rd Ed., 3111 B: 2017	mg/l	0.86
16.	Total Chromium	APHA 23rd Ed., 3111 B: 2017	mg/l	<0.02

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By:

Approved By:

DURBADAL CHAKRABORTY
Dy. Quality Manager

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrani Blattacharyja

<End of Report>

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TEST REPORT

Name of the In	dus	stry		:	Shakambl	ari Ispat & Power Ltd.		Ту	ype of	Indust	ry	:	Stee	el & Po	we	r Unit
Address	Address			:	Vill. – Mac	Sa	Sampling Date				23.02.2023					
				Neturia, D	Pe	Period of Analysis				24.02.2023 - 04.03.2023						
								Da	ate of	Issue		:	06.0	3.202	3	
Sampling Plan		: [ENV	V/S	SOP/01	Deviation from the Samplin	ıg Met	thod	:	No	Туре	of	Sampl	e	:	Ground Water
& Procedure						and Plan										
Location :		Mad	andi	h \	/illage	Sample Condition	:	Seal	ed	Samp	le ID N	0.		ENV	/10	01A/Feb./W/M
	,	Tube	ewel	l												
1 1		ENV	//1	1001A/Feb	/TR(W)/M/22-23											

	<u>PARAMETERS</u>	<u>METHOD</u>	<u>UNIT</u>	<u>RESULTS</u>		
1.	Colour	APHA 23 rd Ed., 3111 B : 2017	Hazen	1.0		
2.	Odour	APHA 23 rd Ed., 2150 B : 2017		Odourless		
3.	рН	APHA 23 rd Ed., 4500 – H+B: 2017		6.80		
4.	Taste	APHA 23 rd Ed., 2160 B : 2017	9 6	Acceptable		
5.	Turbidity	APHA 23 rd Ed., 2130 B : 2047	NTU	1.20		
6.	Total Dissolved Solids	APHA 23 rd Ed., 2540 B : 2017	mg./l	490.0		
7.	Calcium	APHA 23 rd Ed., 3500 Ca-B : 2017	mg./l	39.68		
8.	Chloride	APHA 23 rd Ed., 4500 Cl-B/D : 2017	mg./l	52.64		
9.	Iron	APHA 23 rd Ed., 3111 B : 2017	mg./l	0.62		
10.	Magnesium	APHA 23 rd Ed., 3500 Mg-B : 2017	mg./l	12.24		
11.	Nitrate	APHA 23rd Ed., NO ₃ -E: 2017	mg./l	3.50		
12.	Sulphate	APHA 23 rd Ed., 4500 SO ₄ -E : 2017	mg./l	31.50		
13.	Total Alkalinity	APHA 23 rd Ed., 2320 B : 2017	mg./l	165.0		
14.	Total Hardness	APHA 23 rd Ed., 2340 C : 2017	mg./l	150.0		
15.	Arsenic	IS 3025 (Part 37) : 1988 : 2014	mg./l	<0.01		
16.	Chromium	APHA 23 rd Ed., 3111 Cr-B : 2017	mg./l	<0.02		
17.	Boron	APHA 23 rd Ed., 4500 B-C: 2017	mg./l	<0.1		

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager Approved By:

Indraui Blattacharypa

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

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TEST REPORT

Name of the Industry : Shakambha			hari Ispat & Power Ltd.		Ty	Type of Industry			:	Steel & Power Unit						
Address			:	Vill. – Mad	Vill. – Madandih, P.O. – Bartoria, P.S. –		Sa	Sampling Date		:	23.02.2023					
				Neturia, I	st – Purulia, (WB)– 723121 Period of Analysis		:	24.02.2023 - 25.02.2023								
							Da	Date of Issue		:	06.0	06.03.2023				
Sampling Plan	1	: ENV/SOP/01 Deviation from the Sampling Method : No		Туре	of	Sample : Ground Water										
& Procedure						and Plan										
Location	:	Ма	ıdanı	dih '	Village	Sample Condition	:	Seal	ed	Sample ID No		0.	: ENV/1001A/Feb./W/M		01A/Feb./W/M	
		Tu	bew	ell												
Report No. : E		EN	IV/	1001A/Feb	./TR(W)/M/22-23											

	<u>PARAMETERS</u>	<u>METHOD</u>	UNIT	RESULTS
1.	Total Coliform	9222 B, APHA 23 rd ., 2017	CFU/100 ml.	<1.0
2.	E. Coli	9222 I, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0

Remarks: a) CFU indicates Colony Forming Unit.

- b) <1.0 indicates "Absent" No Colony Developed i.e. No Coliform Found.
- c) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
- d) Result relates only to the sample tested.

Reviewed By:

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By:

Poryanka Mukhonje

PRIYANKA MUKHERJEE Technical Manager, Microbiology

<End of Report>

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TCLP REPORT

1. Name of the Industry

: Shakambhari Ispat & Power Ltd.

2. Address

: Vill. - Madandih, P.O. - Bartoria, P.S. - Neturia,

Purulia - 723121

3. Report No.

: ENV/1001/TR(S)/M(i)/22-23

4. Date of sampling5. Reporting Date

: 23.02.2023 : 30.02.2023

6. Type of sample

: Slag

7. Location

: SAF Slag

<u>Sl.</u> <u>No.</u>	<u>PARAMETERS</u>	<u>METHOD</u>	UNIT	<u>RESULTS</u>
1.	Zinc (Zn)	EPA 1311 : 1992	mg./l	5.80
	No.	APHA 23 rd Ed., 3111 B: 2017	100	
2.	Copper (Cu)	EPA 1311: 1992	mg./l	4.20
		EPA 3050 B, 1996/EPA 200.6 : 1998		
3.	Nickel (Ni)	EPA 1311 : 1992	mg./l	1.80
ı		APHA 23 rd Ed., 3111 B : 2017	THE PARTY OF	
4.	Lead (Pb)	EPA 1311 : 1992	mg./l	1.60
		EPA 3050 B, 1996/EPA 200.9: 1998		
5.	Cadmium (Cd)	EPA 1311 : 1992	mg./l	< 0.002
		EPA 3050 B, 1996/IS 3050 (Part 46)		

Remarks: Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Bhattacharyya

Authorised Signatory:

Hand

Dr. AJOY PAUL Quality Manager

H.O.

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Overseas

: UAE - Qatar - Netherlands









TCLP REPORT

1. Name of the Industry : Shakambhari Ispat & Power Ltd.

2. Address : Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia,

Purulia - 723121

3. Report No. : ENV/1001/TR(S)/M(ii)/22-23

 4. Date of sampling
 : 23.02.2023

 5. Reporting Date
 : 30.02.2023

6. Type of sample : Slag

7. Location : SMS Furnace Slag

<u>Sl.</u> <u>No.</u>	PARAMETERS	METHOD .	UNIT	<u>RESULTS</u>
1.	Iron (Fe)	EPA 1311 : 1992 EPA 3050 B, 1996/EPA 200.9 : 1998	mg./l	6.50
2.	Zinc (Zn)	EPA 1311 : 1992 APHA 23 rd Ed., 3111 B : 2017	mg./l	5.20
3.	Copper (Cu)	EPA 1311 : 1992 EPA 3050 B, 1996/EPA 200.6 : 1998	mg./l	4.40
4.	Nickel (Ni)	EPA 1311 : 1992 APHA 23 rd Ed., 3111 B : 2017	mg./l	2.20
5.	Lead (Pb)	EPA 1311 : 1992 EPA 3050 B, 1996/EPA 200.9 : 1998	mg./l	1.12
6.	Cadmium (Cd)	EPA 1311 : 1992 EPA 3050 B, 1996/IS 3050 (Part 46)	mg./l	<0.002

Remarks: Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical **Authorised Signatory:**

Hand

Dr. AJOY PAUL Quality Manager

<End of Report>

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 Ph. 033 25792891/ 25497490 Fax: 033 25299141

Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792889

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi

ANNEXURE-9A, 9B

ECL



EASTERN COALFIELDS LIMITED

(A Subsidiary of Coal India Ltd.)

Office of the General Manager, Sodepur Area
P.O. – Sunderchak, P.S - Kulti,

Dt. Paschim Bardhhaman (W.B), Pin-713 360

Website – www.easterncoal.gov.in

Dated: - 24.02.2022

To

The Authority of Sakhambhari Ispat & Power Limited

Vill: Madandih P.O: Bartoria

Dist: Purulia

Pin: 723121

Dear Sir,

In response to your letter dated: 18.02.2022, as per discussion with you, you are hereby requested to fill up an illegally Mined place at Bicched Bandh area near Narsamuda Colliery of Sodepur Area, ECL with fly ash, with active help of State Administration.

Yours faithfully

Area Personnel Mana Sodepur Area

B.S.C REFRACTORIES AND CERA

Mob.: 9434071611 8145812111

Jamuria Industrial Estate P.O. - Mondalpur, Ward No.- 13, Burdwan (W.B.) Pin - 713336

AGREEMENT

Ref. No.

This agreement hereinafter referred to as ("the Agreement) made on this the first day of May, Two Thousand Fifteen by and M/s. Shakambhari Ispat & Power Ltd., a company incorporated under the companies Act, 1956 and having its registered office at Diamond Prestige Building, 41A, A.J.C.Bose Road, 8th Floor, Room No. 801, Kolkata 700017 hereinafter referred to as SIPL (which expression shall unless excluded by or repugnant to the subject or context be deemed to mean and include its successor or successors and permitted assigns) of the ONE Part and M/s B.S.C. Refractories & Ceramics, a partnership firm and having its Office at Jamuria Industrial Estate, P.O. Mandalpur, Ward No. 13, Burdwan - 713336 (which expression shall unless excluded by or repugnant to the subject or context be deemed to mean and include its successor or successors and permitted assigns) of the OTHER Part

Whereas, the First Party had offered "Fly Ash" to M/s B.S.C. Refractories & Ceramics generated from the Proposed AFBC Boiler at the Captive Power Plant of SIPL. The rate of the Fly Ash will be decided fortnightly.

Whereas M/s B.S.C. Refractories & Ceramics shall arrange to place vehicle for lifting of the Fly Ash on daily basis and will pay the freight to the transporter/truck driver as per lorry receipt and at actual being the charges from Unit of SIPL, Neturia to the unit of M/s B.S.C. Refractories & Ceramics, Jamuria Industrial Estate, Burdwan. Vehicles carrying Fly Ash shall be emptied and release at earliest.

M/s B.S.C. Refractories & Ceramics will utilize the Fly Ash towards manufacturing of Fly Ash Bricks at its factory at Jamuria Industrial Estate.

Period of Agreement: This agreement shall remain in force for a period of 10 years from the date of Commissioning of the Proposed Captive Power Plant of SIPL.

Dispute Resolution: That in the event of any dispute of difference between the parties in respect to this Agreement shall be settled by amicable negotiation between the parties failing which the same shall be decided by Arbitration in accordance with the provision of Arbitration and Conciliation Act. 1966.

In witness thereof the parties here to have executed this above written Agreement on the first day of May Two Thousand and Fifteen.

Signed and delivered by the above B.S.C. Refractories & Ceramics

Kailant Kymar Mcgobia

Name: Kailash Agarwal

Degn: Partner

M/s B.S.C. Refractories & Ceramics

Signed and delivered by the above Shakambhari Ispat & Power Ltd.

Name: Vinay Kumar

Degn: Director

Shakambhari Ispat & Power Ltd.

In presence of:

Witness No. 1:

Ayush Agermala Ayush Agermala Synif Rudas

Witness No. 2:



SHAKAMBHARI ISPAT & POWER LIMITED

Vill: Pavatpur, Radhamadhabpur, Madandih, PO: Bartoria, Dist.: Purulia (WB)

M/s. Shakambhari Ispat & Power Limited has obtained Environmental Clearance from the Ministry of Environment, Forest & Climate Change (MoEF&CC) vide F. No. J-11011/201/2013-IA.II(I) on 21st December 2016 for expansion of the existing steel plant. The Subsequent amendment was granted by MoEF&CC on 29th April 2020.

COMPLIANCE OF COMMITMENTS MADE DURING THE PUBLIC HEARING HELD ON 14.10.2015

SI.	COMMITMENTS	COMPLIANCE STATUS
No.	COMMITMENTS	COMPLIANCE STATUS
1.	Shri. Swapan Bauri of village Madnadih and Shri. Nirmal Bauri of village Sarbari expressed their hope that the proposed expansion will lead to the generation of direct and indirect employment for the local people. They requested the PP to implement the project at the earliest and ensure the overall socio-economic development of the local villages	Shakambhari Ispat & Power Limited is providing employment to local people by giving opportunities for direct and indirect employment. about 1000 people and their families are getting benefitted along with many other small-scale traders of the local community. It is approx. 60 % of the total employment of the company.
2.	Shri. BalaramKarmakar of village Madandih and Shri. Chandi Chakraborty of village Sarbari welcomed the proposed expansion with the hope that the same will generate further employment opportunities for local people. They requested the PP to ensure proper safety measures for the workers and fulfillment of their CSR commitments.	The project has positively increased the opportunities for employment for the people of nearby areas. We are providing appropriate safety measures to the workers i. e. safety helmets, safety shoes, hand gloves nose masks, etc at the workplace. And also providing on-site safety training through our safety officers. Some photos are attached as under.
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	27 April 202:14-19	

SHOP FLOOR SAFETY TRAINING PROGRAM

Janab Sk. Maznum of Nimdanga requested the PP to fulfill their CSR commitments and expressed his dissatisfaction regarding the nonfulfillment of such commitments by other industries which have come up in the locality. He also enquired about the appropriate authority that the local residents should approach for redressal in case of such failure to fulfill CSR commitments by the local industries.

Various CSR activities have been undertaken by SIPL for the benefit of the local community of nearby villages i. e. free health checkup camp and medicines distributions program, distribution of study material to the school students, renovation of school buildings, providing sitting arrangements to the school students, promotion of sports, Monetary support for cultural programs in local communities etc.

We have dedicated HR/ IR & CSR team to look after the welfare activities and redressing of issues if any.





FREE MEDICAL HEALTH CHECKUP & MEDICINE CAMP AT GOPAL GANJ PRIMARY SCHOOL



DISTRIBUTION OF STUDY MATERIALS TO SCHOOL STUDENTS AT RADHAMADHABPUR PRIMARY SCHOOL



DISTRIBUTION OF STUDY MATERIALS TO SCHOOL STUDENT AT EREA KUSUM PRIMARY SCHOOL





FREE MEDICAL HEALTH CHECKUP & MEDICINE CAMP AT EREA KUSUM PRIMARY SCHOOL









PROMOTION OF SPORTS AMONG VILLAGE GIRLS





PLANTATION AND PLANTS DISTRIBUTION PROGRAM AT LAXMANPUR





SPORTS EVENTS ORGANISED BY SIPL

Shri. Rabindranath Barman of village Saltore requested the PP to arrange for vocational training for skill development of the local youth to generate employment opportunities for them in both skilled as well as unskilled sectors.

SIPL is already providing training for skill development and employing them in the company.









TRAINNING FOR SKILL DEVELOPMENT

Shri. Subodh Mahato of village Radhamadhabpur and Shri. Sudeb Murmu of village Lakshmanpur expressed their concern regarding the depletion of water level in the area due to the abstraction of groundwater by the local industries. They requested the PP to arrange for a surface water source for their project and provide a drinking water facility for the local villages through their CSR activity. Shri. Murmu further requested PP to give priority to the land losers for employment in their proposed expansion project.

SIPL is taking water from Damodar River and not extracting groundwater to run the process of the plant. Accordingly, company has made an agreement with DVC.

People are benefitted from getting direct and indirect employment in the company. Details of CSR activities are already mentioned in the previous as well as in consecutive pages. The company also arranged a water facility in the village for the needy population. Some photographs are attached as follows.









FACILITATING DRINKING WATER FOR LOCAL VILLAGERS BATHING GHAT FOR WOMEN



POND RENOVATION FOR NATURAL GROUND WATER RECHARGE

Shri Krishna Mohan Yadav, Savapati, and Neturia Panchayat Samiti expressed their hope regarding the generation of new employment opportunities in the locality resulting from the proposed expansion project. He requested the PP to ensure proper pollution control measures and ensure fulfillment of CSR commitments giving priority to local needs including the development of road conditions, providing medical facilities and arranging for drinking water facilities, helping the local schools, etc. Shri Yadav assured the PP that the local people will extend all possible help towards the implementation of the proposed expansion project.

We have already discussed regarding the generation of employment for local people at SI. No.1 and emphasizing the suggestions made.

We have already installed necessary pollution control devices like ESPs, Bag Filters, Dust Conveying System, and Water Sprinklers for fugitive dust suppression, etc. for abatement of pollution. RCC roads and paver blocking has been done in view of heavy and light motor vehicles' movement are envisaged.

Road sweeping by automated sweeping machine and water sprinkling being done through mobile water tankers on roads to suppress the dust emission due to vehicular movement.

Shri. Purna Ch. Bauri, Hon'ble MLA of Raghunathpur welcomed the proposed expansion project with the hope that this will generate local employment and lead to the overall development of the neighboring area. He requested the PP to run all pollution control devices continuously and efficiently to protect the serene and sensitive environment of the surrounding area from any sort of degradation due to pollution resulting from process activities.

We have already discussed regarding the generation of employment for local people at SI. No.1 and emphasizing the suggestions made.

We have installed necessary pollution control devices like ESPs, Bag Filters, Dust Conveying System, and Water Sprinklers for fugitive dust suppression, etc. for abatement of pollution. The units are running effectively.

To monitor the stack emission level, SIPL has installed Online Emission Monitoring System (OCEMS) with all major stacks with connectivity to CPCB/SPCB portal and open to the public domain.

We are conducting third-party monitoring on regular basis by NABL accredited laboratory for Stack, AAQM, and Work Zone, etc. to evaluate the environmental status in and around the factory premises.

6

7.

Shri S. Ganguly, Environment Engineer, WBPCB then requested the project proponent to address the issues raised in public hearings.

The issues were addressed by Mr. Deepak Kumar Agarwal, CMD of the M/s Shakambhari Ispat & Power Ltd.

Shri Deepak Kumar Agarwal, Chairman & Managing Director of M/s Shakambhari Ispat & Power Ltd. assured the gathering that they will continue with their CSR activities for further development of the neighboring area. Shri Agarwal assured that for the proposed expansion project local youth will be given priority for employment; he further assured that they will take up all local development programs in consultation with local administration and public representatives.

SIPL is complying with commitments made by Shri Deepak Kumar Agarwal, Chairman & Managing Director of M/s Shakambhari Ispat & Power Ltd. by promoting employment of local youth as well as CSR activities for the development of the neighboring area.

Shri. S. Bhattacharya, Environmental Engineer, West Bengal Pollution Control Board, suggested that the project proponent should include all the issues discussed in the public hearing, in the final EIA/EMP report and address the issues properly during the implementation of the project.

10.

It is included in EIA/EMP report for addressing the public hearing issues to improve the socio-economic condition of the locality.

Shri P. K. Maity, Additional District Magistrate (Development), Dist: Purulia emphasized that all possible measures should be ensured by the project proponent towards the mitigation of environmental problems as the neighboring area and its serene environment and ecosystem with Panchkot Mountain in the backdrop has immense potential from tourism point of view. He also requested the PP to fulfill all their CSR commitments.

M/s Shakambhari Ispat & Power Limited (SIPL) is cautious towards its responsibilities of environmental protection and made proper arrangements for the abatement of pollution due to industrial operations to mitigate environmental issues and to maintain the eco-friendly environment around our establishment.

Some photographs showing on-site protection measures taken by SIPL for abatement of pollution and implementation of CSR activities are attached here for your kind perusal

INSTALLATION OF POLLUTION CONTROL EQUIPMENTS





ROADSIDE WATER SPRINKLING ARRANGEMENT FOR DUST SUPPRESSION



RCC ROAD MAKING AND ITS SWIPING & WATER SPRINKLING FOR DUST SUPPRESSION





INSTALLATION OF EFFLUENT TREATMENT PLANT FOR WATER CONSERVATION

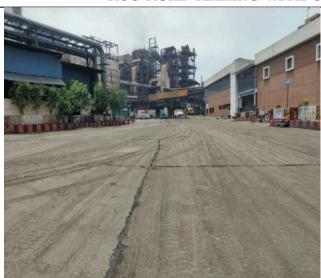








RCC ROAD MAKING WITH CLOSED CONVEYOR GALLERIES









RCC ROAD AND PAVER BLOCKING IN THE PLANT AREA





GREEN BELT DEVELOPMENT















GARDENING WITH AVENUE PLANTATION FOR GREENCOVER DEVELOPMENT





OTHER CSR INITIATIVES BY SIPL

Free Medical Camps & Health Check-ups





Renovation of Drinking Water System at Harmadih Govt. Hospital





Food distribution / Bhojan Ayojan during the village cultural program





Food item distribution to needy people during COVID-19 Pendamic





Food material distribution to malnutritional children



Study material distribution to School Children





Renovation of School Building & Premises





Solar Lighting arrangement in villages





Renovation of Village Temples



Road Safety Awareness





Promoting Sports Activities among village Youths





Blanket & Clothing distribution to underprivileged people





Drinking water arrangement





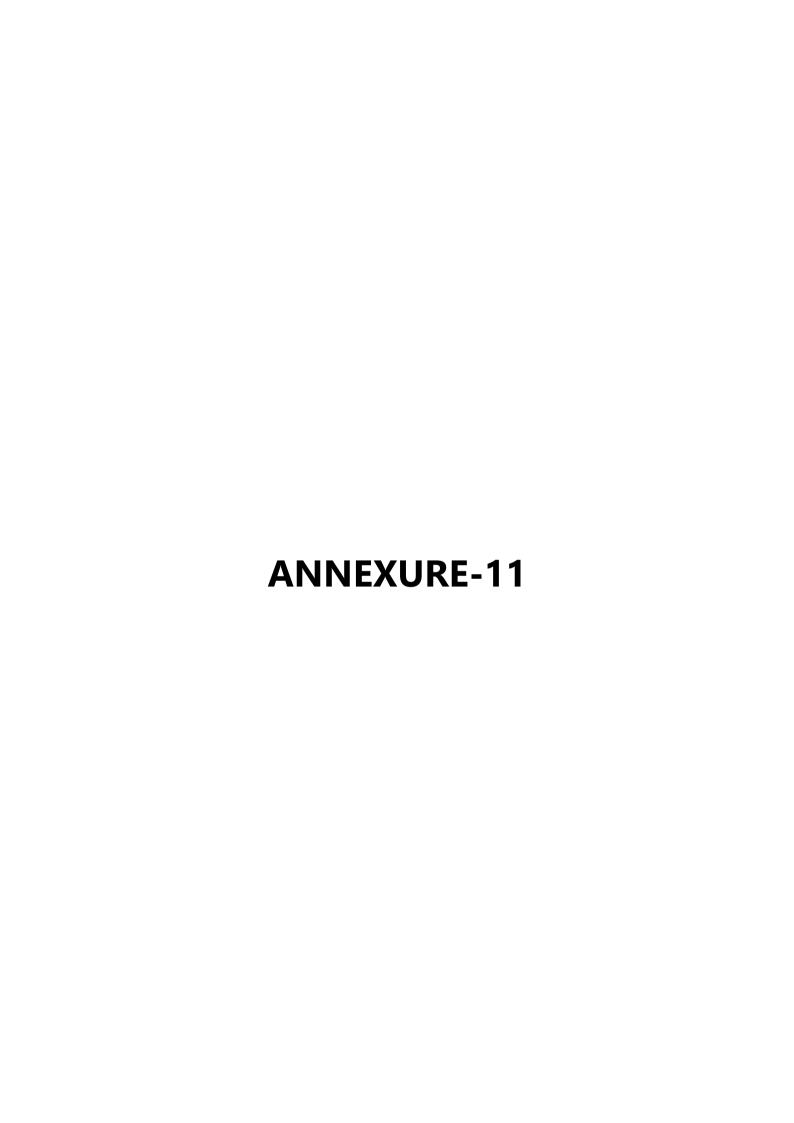
Pilgrim Care Program during festivals at Biranchinath Dham





Bicycle stand at the Block Development Office







SHAKAMBHARI ISPAT & POWER LTD.

CIN: U27109WB2001PLC093869 | GSTIN: 19AADCM1189L1Z1 | PAN: AADCM1189L | LEI NO: 3358005MV4ZAHMEP1S72

CORPORATE ENVIRONMENTAL POLICY

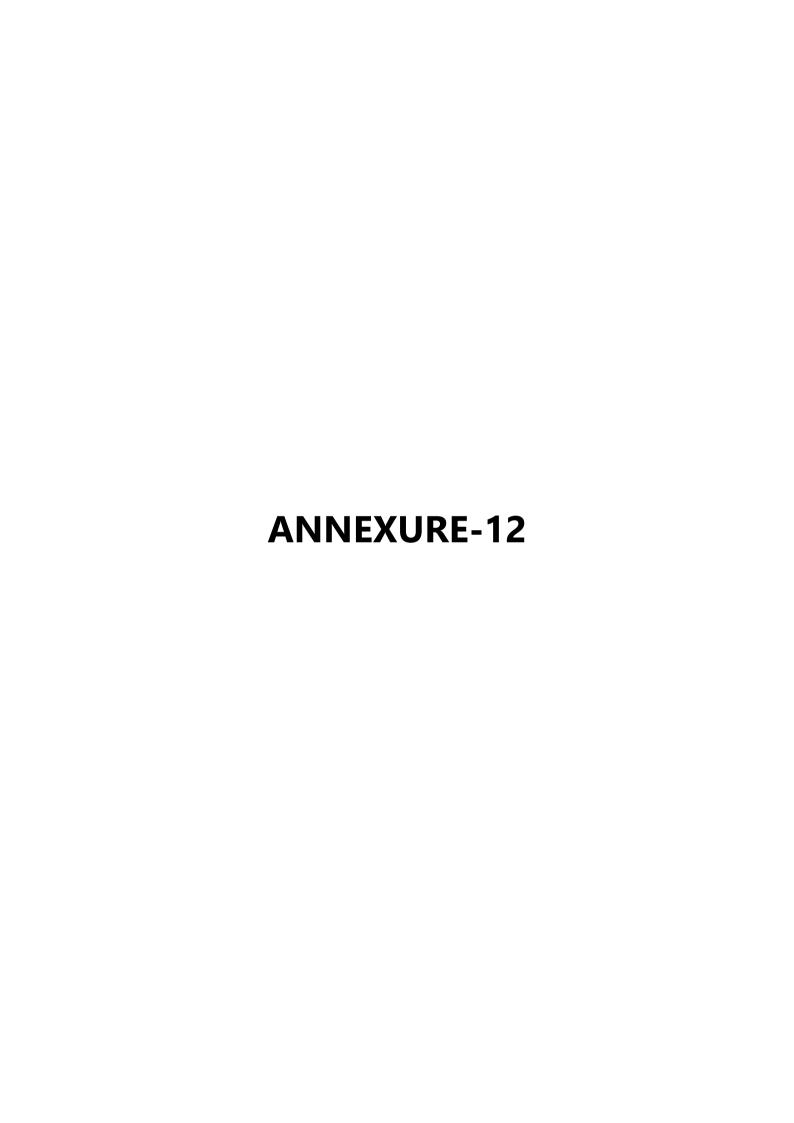
M/S Shakambhari Ispat & Power Limited (SIPL) is engaged in production of steel products is committed towards clean and sustainable environment. The mission of Shakambhari Ispat & Power Limited is to produce steel in an environment friendly manner and strive to:

- Integrate sound environmental management practices in all the activities.
- Conduct the operations in environmentally responsible manner to minimize pollution and its' impact on environment.
- Comply with applicable legal and other requirements related to environmental aspects of the operations and strive to go beyond. The environmental management cell will be headed by EHS-Head.
- The company shall ensure that deviations from this policy and cases of violations/non-compliances of Environment or Forest Laws, if any, shall be reported to the Board of Directors through ED-Corporate and shall identify and designate responsible person for ensuring compliance with the Environmental Laws and Regulations.
- Conserve energy, and other natural resources, minimize waste generation and promote recovery, recycle and reuse practices.
- Increase greenery in and around the plant.
- Ensure continual improvement in environmental performance by setting & reviewing objectives & targets.
- Encourage environmental awareness amongst employees and the general populace around the plant.
- Maintain transparency in matters of Environmental Compliance.

The hierarchical system/administrative order to deal with issues related to environmental compliance shall be as follows:







WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg. No. - 10A, Block - LA, Sector-III Salt Lake City, Kolkata-700 098



69/08/18

Consent Letter Number :

apply for renewal of consent 60 (Sixty) days before expiry

. . . . 17

-WPBA/Red(Prl)/Cont(81)/2002

Date: 09-08-18

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

26 of the Water (Prevention and Control of Pollution)	reinafter referred to as State Board) under the provisions of Section 25 & Act, 1974, as amended and Section 21 of the Air (Prevention and Control Orders made thereunder, hereby grants its consent to:
M/S. Shakambhari Ispat & Pow	er Ltd. NC Al
	(Address of Regd. office/Head/Office/City Office) ed at Vill- Madandih, P.O. Barteria,
P.S. Neturia, Dist- Puruli	
	(Detailed address of the manufacturing unit)
for a period from	upte 31-07-2023
trial unit, in accordance with the conditions as ment	ffluent and to emit gaseous effluent from the premises/land of the indus- ioned in the Annexure to this consent letter provided on any day at any nd gaseous emission shall not exceed the permissible limit as specified in conmental (Protection) Act. 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

Asampol Regional Office

For and on behalf of the State Board

ANNEXURE

Consent to	M/S. Shakambhari Ispat & Power Ltd.
for its unit a	Vill- Madandih, P.O. Barteria, P.S. Neturia, Dist-Purulia
	Pin-723121

Conditions:

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Billets	16600 MT
02	Electricity	29 MW
03	Spenge Iren	9000 MT
04		
05	WEST BEN	GA
06		
07		and the second s
08		
09		
10		
11		
12		

02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.

03.	Daily discharge of industrial liquid effluent shall not exceed	b		KL.
	Daily discharge of domestic liquid effluent shall not exceed			KL.
05	Daily discharge of mixed (industrial & downsia) 1: -: 1 co 1 11		NIL	

07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.

08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

for its unit at Vill- Madandih, P.O. Bartoria, P.S. Neturi Pin-723121

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling	
01 I	omestic	рН	Between: 5,5 to 9.0.	Yearly	
		Total Suspended Solids	Not to exceed: 100 mg/1.		
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/1.		
•		Chemical Oxygen Demand	Not to exceed: 25 0 mg/1.		
		Oil & Grease	Not to exceed: 10 mg/1.	8 7 3	
		WEST BEN	IGAL		
	1 7				
		THE PARTY SHAPE TO SEE THE PARTY SHAPE TO SEE			

- The Applicant falls in the and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.
- Daily water consumption for the following purposes should not exceed :-10.
 - → 2500 KL Industrial cooling, spraying in mine pits and boiler feed water (Water used for gardening should be included in this category of use)
 - Domestic purpose
 - Processing whereby water gets polluted and the pollutants NIL are easily biodegradable
 - Processing whereby water gets polluted and the pollutants BIL are not easily biodegradable

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

M/s. Shakambhari Ispat & Power	1	Shakambhari	Ispat	44	Power	Pro.
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Vill- Madandih,

P.O. Bartoria, P.S. Neturia, Dist- Purulia

for its unit at

Pim-723121

- The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- 12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below:

Table-II

Stack No.	Stack height from	Stack attached to (sources and control system.	Volume Nm³/hr.	Velocity of gas emission	Concent	rations of	parame	ters not to	o exceed	Frequency of emission sampling
	G.I., (in mts.)	if any):	WES	m/sec	SPM (mg/Nm³)	CO (%v/v)	AL			
S-I		E E								
S-2			SEE An	nexure	'A' at	tached	1			10
S-3								1	93	
S-4						er de Yang				
S-5			1							
S-6										
S-7										
S-8			8							
S-9										
S-10										

Consent to M/s. Shakambhari Ispat & Power Ltd.

for its unit at Vill- Madandih, P.O. Barteria, P.S. Neturia, Dist- Purulia

Pin-723121

- 14. The *Applicant* shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the *State Board's* staff as well as *State Board's* authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern:-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Coal	390 MT	Rotary Kilns (03 nos.)
02	Coal & Dol	char 180 MT	AFBC Beiler
03	MSD	_	D.G.Sets (03 nos.)
04		2	
05			

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below:-

Type of waste	Quantity	Treatment	Disposal
Delechar	1440 MT	Markey of Both House	used in CPP
Mix Dust	600 MT		Land Filling

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:-

Time 10	Limit in dB(A) L _{eq}
Day Time (06 a.m. to 00 p.m.)	65
Night Time (09 p.m. to 06 a.m.)	55

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- 19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- 21. The *Applicant* shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- 22. The *Applicant* shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

Consent to M/S. Shakambhari Ispat & Power Ltd.

for its unit at Vill- Madandih, P.O. Barteria, P.S. Neturia, Dist-Purulia

Pin-723121

- 24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- 26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- 30. The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- 31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- 32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
- 34. The *Applicant* shall make an application to the *State Board* in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- 35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
- 36. The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions Please See Annexure 'B' attached.

ANNEXURE-'A'

Consent Letter Sl. No.: Collo 135

WEST BENGAL POLLUTION CONTROL BOARD Paribesh Bhawan; Bldg. No.-10A, Block – L.A., Sector – III Salt Lake City, Kolkata – 700 106

Name of the Unit: M/s Shakambhari Ispat & Power Ltd. Located at Vill – Madandih, P. O. – Bartoria, P. S. – Neturia, Dist. – Purulia, Pin – 723121

The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the Standard as given in Table – II below:

SI. No.	Stack height from	Stack attached to (sources and control system, if any)	Volume (Nm³/hr)	Velocity of gas emission	The second second second	rations of ers not to	Frequency of emission
	GL (Meters)			(m / sec)	SPM (mg/ Nm³)	CO (% v/ v)	sampling
1.	35.0	Rotary Kilns – 1			100	1	Quarterly
2.	35.0	Rotary Kilns – 2			100	1	Quarterly
3.	42.0	Rotary Kilns – 3			100	1	Quarterly
4.	30.0	Induction Furnace – 1			50		Quarterly
5.	30.0	Induction Furnace – 2			50		Quarterly
6.	30.0	Induction Furnace – 3			50		Quarterly
7.	30.0	Induction Furnace – 4			50		Quarterly
8.	60.0	AFBC Boiler			50	1	Quarterly
9.	30.0	CHP			50		Quarterly
10.	30.0	Coal Ground Hopper			50		Quarterly
11.	00.0	DD Fan			50		Quarterly
12.	30.0	Cooler Discharge – 1			50		Quarterly
13.	30.0	Cooler Discharge – 2			50		Quarterly
14.	30.0	Cooler Discharge – 3			50		Quarterly
15.	30.0	Product House – 1			50		Quarterly
16.	30.0	Product House – 2			50		Quarterly
17.	30.0	I. Bin			50		Quarterly
18.	8.0	DG Set (500 KVA)			150	1	Quarterly
19.	8.0	DG Set (750 KVA)			150	1	Quarterly
20.	8.0	DG Set (500 KVA)			150	1	Quarterly

For and on behalf of the Board

Environmental Engineer Asansol Regional Office, WBPCB

ANNEXURE-'B'

Consent Letter Sl. No.: 60110135

WEST BENGAL POLLUTION CONTROL BOARD Paribesh Bhawan; Bldg. No.-10A, Block – L.A., Sector – III Salt Lake City, Kolkata – 700 106

Name of the Unit: M/s Shakambhari Ispat & Power Ltd Located at Vill – Madandih, P. O. – Bartoria, P. S. – Neturia, Dist. – Purulia, Pin – 723121

ADDITIONAL CONDITIONS

1. Proper & effective steps should be taken so as to ensure that manufacturing activities do not affect the residents of the neighbourhood in any way.

2. The unit will have to take pollution control measures regarding air, water and noise to

keep the parameters within the permissible limit as laid down by WBPCB.

3. This consent shall be revoked at any time on the valid ground of any public complaint (for violation of Environmental Acts) against the unit regarding air, water pollution and any other environmental hazards caused by the unit.

4. Solid waste should be disposed off in an environment friendly manner.

- 5. No additional machinery / equipment can be installed without permission from the State Board.
- 6. No nuisance should be caused to the neighbourhood residence due to activity of the unit.
- 7. The unit should obtain permission for the three (03) DG sets of 750 KVA and 500 KVA (02 nos.) from the Directorate of Electricity as per 47A rule of Indian Electricity Rules 1956 & submit a copy of the same to the State Board accordingly.

8. The unit should comply with the provision of GSR 371 (E) dated 17.05.2002 issued by

Ministry of Environment and Forest, Govt. of India.

9. The unit should comply with the sixteen-point direction issued by the State Board vide memo no. 1044 – 4 / WPB / CE – II / GEN / 2008 dated 01.06.2012.

- 10. The unit should obtain Hazardous Waste Authorisation under the provision of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 and submit the copy of same to the State Board accordingly.
- 11. The unit should take immediate action to repair Cap leakage in the DRI Kiln-1.

12. The unit should improve internal road condition at an earliest.

For and on behalf of the Board

Environmental Engineer Asansol Regional Office, WBPCB

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan', Bldg. No. – 10A, Block-LA, Sector-III, Salt Lake City, Kolkata-700 098



Consent Letter Number : C0107584

Memo Number: 582 - as - co-s/11/0064

Expansion

Date: 06. 12. 2018

Consent to Operate

under

Application no.coccoccocc207553

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended, and Rules and Orders made thereunder, hereby grants its consent to:

Shakambhari Ispat & Power Ltd.,	
WESTE	Address of Regd. office/Head/Office/City Office)
(hereinafter referred to as Applicant) for its unit located at	Vill: Madamdih, P.O: Barteria,
P.S: Neturia, Dist, Purulia, W.B.,	India, Pin - 723121.
	(Detailed address of the manufacturing unit)
for a period from the date of issue	to 31/07/2023

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent leter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

Kankinara Narayanpur * 743126 Seal Application for renewal shall be filed at least 120 (one hundred twenty) days before the date of expiry of this certificate.

For and on behalf of the State Board

Lman A /06.122018

ANNEXURE

Consent to	Shakai	mbhar1	Ispa	at &	Pewer Lt	d.,	and the second s		
for its unit at	Vill:	Madan	dih,	P. 0:	Barteri	a, P.S:	Neturia,	Dist.	Purulia,
Pin - 7	23121,	W.B. I	ndia.			***************************************			•••••••

Conditions:

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Billet	56320 TPA
02	Spenge Irem	224000 TPA
03	Captive Pewer	40 MW
04		
05		
06		
07		
08	WEST BE	NGAL
09		
10		
11		
12		

- 02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.
- 03. Daily discharge of industrial liquid effluent shall not exceed ______ KL.
- 04. Daily discharge of domestic liquid effluent shall not exceed _______ KL
- 06. The Applicant shall discharge liquid effluent to ________ (place of discharge) through _______ nos. outlets/outfalls.
- 07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
- 08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

Consent to Shakambhari Ispat & Power Ltd.,

for its unit at Vill: Madandih, P.O: Barteria, P.S: Neturia, Dist. Purulia,

Pin - 723121, W.B., India.

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01.	Demestic	•	Between: 5.5 to 9.0	-
		Total Suspended Solids	Not to exceed: 100 mg/l.	
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/1.	
		Chemical Oxygen Demand	Not to exceed: 250 mg/1.	
1		Oil & Grease	Not to exceed: 10 mg/l.	
		WEST BE	IGAL	

- 10. Daily water consumption for the following purposes should not exceed :-
 - Industrial cooling, spraying in mine pits and boiler feed water → KL
 (Water used for gardening should be included in this category of use)
 - Domestic purpose → 5.● KL

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst.Env.Engr.)

Janams 406.12018

Shakambhari Ispat & Pewer Ltd., Vill: Madandih, P.O: Barteria, P.S: Neturia, Dist. Purulia,

Pin - 723121, W.B., India.

- The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- 12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below:

Table - II

(See Annexure)

Stack No.	Stack height from	Stack attached to (sources and control system,	Volume Nm³/hr.			o exceed	Frequency of emission sampling			
	G.I., (in mts.)	if any):		m/sec	SPM (mg/Nm³)	CO (% v/v)				
S-I	1		WE	SIE	SEN	IG	AL			
S-2										
S-3		1)			
S-4						W/			-	
S-5			THE			7/8	7			
S-6				-						
S-7							1			
S-8								1		
S-9									1	
S-I0										1

Amond 408.12.2018 (Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Shakambhari Ispat & Pewer Ltd., Vill: Madandih, P.O: Barteria, P.S: Neturia, Dist. Purulia, for its unit at

Pin - 723121, W.B., India.

- The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- The Applicant shall observe the following fuel consumption pattern := 15.

Sl. No.	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Ceal	14784 TPM	DRI Kilm(2x350 TPD) + AFBC
02			Beiler (1x100 TPH).
03			
04			
05		= X	

16. The Applicant shall maintain the generation and treatment / disposal of non-hazardous solid waste as specified below:

Type of waste	Quantity	Treatment	Disposal	
Delechar	2480 TPM	~ T	be used in AFBC B	eiler
MS Slag Dust/Ash	925 TPM		Land filling,	

The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within 17. the limit given below :-

Time	Limit in dB(A) L
Day Time (06 a.m. to 00 p.m.)	75
Night Time (99 p.m. to 06 a.m.	70

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- 19. The Applicant shall bring about at least 33% of the available open land under the green coverage/plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- 21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control
- 22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Continued. P/6

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Consent to Shakambhari Ispat & Pewer Ltd.,

for its unit at Vill: Madandih, P.O: Barteria, P.S: Neturia, Dist, Purulia,

Pin - 723121, W.B., India.

- 24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- 26. The Applicant shall provide adequate and safe facility for collection of air, wastewater and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form-V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] Rules. 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- 30. The Applicant shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- 31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and/or emission control devices and for overall environment management of the industry.
- 32. The Applicant shall have to make registration for the use of groundwater, if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quantity as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident / event including natural disaster. The Applicant shall (i) take all steps adequate to prevent such accidental discharge / release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment. (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous, noxious or pollutants to the environment.
- 34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- 35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
- 36. The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions 1) See Annexure.

2) DRI Kiln & AFBC Beiler must be started simultaneously.

WEST BENGAL

WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Government of West Bengal)
Office of the Senior Environmental Engineer
Kankinara Circle Office

Panpur More, P.O. – Narayanpur, Kankinara, 24-Parganas (N), Pin – 743 126 Special Condition

Annexure to Consent to Operate Letter Number: CO107584 of M/s. Shakambari Ispat & Power Ltd located at the existing unit at Vill.-Madandih, P.O.-Bartoria, P.S.-Neturia, Dist.-Purulia, PIN-723121

- 1. Conditions mentioned in the Environmental Clearance issued by MOEF Vide No. J-11011 /201/2013 IA-II (I) dated 21/12/2016 must be complied with.
- 2. Conditions mentioned in the Consent to Establish (NOC) issued by the State Board vide Memo No. 101-2N-21/2012(E) dated 16/03/2017 and its amendment vide Memo. No. 330-2N-21/2012(E) dated 15/06/2018 must be complied with.
- 3. FORM-V for Environmental Statement and six monthly compliance report as per condition of Environmental Clearance must be submitted before due date.
- 4. Emission Standards as mentioned below must be complied with.

Table-II

t-	Stack height	Stack attached to (Sources & control system , if any)	Volume Nm³/hr	Velocity of gaseous emission	Concentration	Frequency of sampling				
	from GL (in mts.)	To Marin.		(m/sec)	SPM (mg./ Nm ³)	CO (%v/v)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)	Mercury(Hg) (mg/Nm³)	
S-1	92.0	AFBC Boiler(1x100TPH)	-	-	30.0		100.0	100.0	0.03	Quarterly
S-2	72.0	DRI Kiln(2x350TPD)	-	-	50.0					
S-3	30.0	Cooler Discharge			50.0	-		1		_
S-4	30.0	CHP Crusher House)	-	-	50.0	-	-		1.	
S-5	30.0	CHP Bunker Top	-	1-	50.0					
S-6	30.0	I-Bin and Product separation Building	-	•	50.0	-	7		-	
S-7	30.0	Coal feeding circuit			50.0	-	-		-	
5-8	30.0	Iron feeding circuit			50.0					
S-9	30.0	Day Bin Stock House			50.0	1				
S-10	30.0	Product House			50.0					
5-11	30.0	Induction Furnace(1x25T/Heat)	-	-	50.0	-	1.			

- Zero Liquid Discharge Principle should be strictly maintained.
- This Consent to Operate for operation may be revoked at any time for non-compliance of the Environmental Statutes.

For and on behalf of the Board

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg. No. - 10A, Block - LA, Sector-III Salt Lake City, Kolkata-700 098



Consent Letter Number: C0113782

Expansion

Memo Number: 50-al-co-8/11/0064

Date: 06/09/2019

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 &

26 of the Water (Prevention and Control of Pollution) Act, 1974 of Pollution) Act, 1981, as amended and Rules and Orders made	, as amended and Section 21 of the Air (Prevention and Control de thereunder, hereby grants its consent to:
Mls. Shakambhari Ispat 2	Power Kimited
N. W. March Co., H. March	(Address of Regd. office/Head/Office/City Office)
(hereinafter referred to as Applicant) for its unit located at .EX	
Madondih, P.OBartonia, P.S.	!- Neturia, Dist:-Purulia.
THE PART OF THE PA	/D-6-11-1-11
for a period from date of 1880e	(Detailed address of the manufacturing unit)

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

Seal Control Shared A Record Control of Seal Control of Seal o

For and on behalf of the State Board

(Member Sceretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

ANNEXURE

Consent to Ms. Shakaw	bhari Ispat & Power Limited.	
	ndih, P.O Bastonia, P.S Neturia,	
Dist : - Purulia,	2	

Conditions:

01. This Consent is valid for the manufacture of:-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	M. S. Billets	
02	TMT bans/wine	1,06,800 TPA 1,80,000 TPA
03		
64		
05	WEST BE	NGA
06		
07	Marine and the second s	
08		
09		
10		
11		
12		19/199

- 02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.
- 03. Daily discharge of industrial liquid effluent shall not exceed _______ KL

- 06. The Applicant shall discharge liquid effluent to Settling tank to municipal drain (place of discharge mos. outlets / outfalls.
- 07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
- 08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

(Member Secretary/Chief Engr./Sr. Env. Engr. / Bnv. Engr. / Asst. Env. Engr.)

Environmental Engineer
W. B. Poliution Control Board
Operation & Execution Control
Operation

Consent to Ms. Shakambhari Tspat & Power Limited.
VIII: Madandih, P.OBartoria, P.SNeturia,
Dist-Aurulia, Pin-723121

Table-I

Outlet	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Mixed	pH	Between: 5.5 to 9.0	Yearly
	- tik cu	Total Suspended Solids	Not to exceed: 10 Omg/1.	
	TEN VINCEN	Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30mg/1.	1
-		Chemical Oxygen Demand	Not to exceed: 2 50 mg/1.	
		Oil & Grease	Not to exceed: mg/1.	3
		A STATE OF THE STA		100000000
		AND DESCRIPTIONS	BELLEVICA .	
		MESIREN	$(-\Delta)$	
		TTEST WELL		
		ASSESSMENT OF THE PARTY OF THE	and the state of t	
	100000			
			The state of the s	
			and Transported	
		CONTROL DOUBLE AND DESCRIPTION OF THE PERSON	THE PERSONAL PROPERTY.	
			THE PERSON	

- 09. The Applicant falls in the _______Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.
- 10. Daily water consumption for the following purposes should not exceed :-

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

(Member Secretary/Chief Engr./Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

- 11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- 12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below:

Table-II

Stack No.	Stack height from	Stack attached to (sources and control system.	Volume Nm³/hr.	Velocity of gas emission	as		o exceed	d Frequency of emission sampling		
	G.I., (in mts.)	if any):	WES	m/sec	SPM (mg/Nm³)	CO (%v/v)	AL			
S-I	30	1x25 MT burnace+	L.	The second secon	50	1				Yearly
S-2		Induction	furnace	e witer						
S-3		Systems- cum cyclo and Bag	sparka ne sepa	rrestor						
S-4		and Bag	bilter.			84 E 7/88	13.7 13.7 13.7			
S-5			10			A				
S-6										
S-7										
S-8										
S-9										
S-10										

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

(5)
Consent to M/S. Shakambhari Ispat & Power Limited
for its unit at VIII: Madandih, P.O Bertonia, P.S Neturia,
Dist: - Panulia, Pin - 723121

- 14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern:

SL No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Electricity		1X8 MT/heat and 1X25 MT/heat Induc
02			Induc
03		THE RESERVE THE PARTY OF THE PA	
04			
05			

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below:-

Type of waste	Quantity	Treatment	Disposal
Slag	975 MT/m.		land filling.

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:-

Time	Limit in dB(A) Leq
Day Time (06 a.m. to 09 p.m.)	75
Night Time (09 p.m. to 06 a.m.)	70

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- 19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- 21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- 22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

W. B. Pollution Control Spatied.
Operation & Execution Call

Mc Shakambhari Ispat & Power Limited

Will: Madandih, P.O.-Bartonia, P.S.-Neturia,

Dit:-Purulia, Pin-723121.

- 24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- 26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- 30. The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- 31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- 32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event inciding natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
- 34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- 35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
- The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions See annexure.

(Member Secretary/Chief Engr./Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Annexure to Consent Letter Number - CO113782

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN--723121.

- The unit should comply all the conditions issued in earlier Environmental Clearance, Consent to Establish and Consent to Operate.
- The unit shall comply the directives issued by the Board vide memo no.630-WPBA/Red(Prl/Cont(81)/2002 Part-III dated 30/07/2019.
- 3. The unit should obtain all the statutory licenses as applicable from other concerned Govt. Department.
- 4. This consent may be revoked at any time on violation of environmental norms.
- 5. The unit shall submit a status of compliance of the conditions stipulated in EC.
- This consent to Operate is valid for operation of Induction Furnace- 1x25 Ton in place of 2x15Ton and existing Induction Furnace -1x8 Ton and enhancement of capacity of Rolling Mill from 400 TPD to 600 TPD without oil fired reheating furnace by directly charging the hot billets.

Environmental Engineer
West Bengal Pollution Control Board

WEST BENGAL POLLUTION CONTROL BOARD

'Parihesh Bhawan' Bldg. No. - 10A, Block - LA, Sector-III Salt Lake City, Kolkata-700 098



Consent Letter Number: CO128922

Memo Number: 185- as co-8/11/0064

Date: 13 102 2020

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to:

(000000)	(Address of Regd. office/Head/Office/City Office)
(hereinafter referred to as Applicant) for its unit located at .	existing unit premises in Vill:
Madandih Po, Bartonia	PS-Neturia, Dist-Punulia,
Pis - 723124	
	(Detailed address of the manufacturing unit)

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Amexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / after the conditions of this consent letter giving one month's notice to the applicant.

Sept Control of Contro

For and on behalf of the State Board

(Member Secretary/Chief Engr./St. Finv. Engr. / Env. Engr. / Asst. Env. Engr.)
Environmental Engineer

W. B. Pollution Control Board Operation & Execution Cell

ANNEXURE

Dist	or VIII: Madandih, Po. – Barto Purulia, Pin – 723121	SES A TAT INCASSAGE
Condition		
SI, No.	Name of major products and by-products	Quantity manufactured per month
01	M.S. Billet	4700.00 MT
02		
0.3		
04		
05	WESTBE	NGAL
06	And the state of t	
0.7		PACKET AND
08		
09		
10		
11		
12		TANK TO SERVICE THE PARTY OF TH
02. The A	pplicant shall remain responsible for quantity and qualit	y of liquid effluent and air emissions.
03. Daily	discharge of industrial liquid effluent shall not exceed	KL
04. Daily	discharge of domestic liquid effluent shall not exceed	5.0 KL
5. Daily	discharge of mixed (industrial & domestic) liquid efflue	nt shall not exceedKL_
06. The Ap	pplicant shall discharge liquid effluent to settling nos outlets / outfa	fank to municipal doain. (place of discharge)
07. To brir the Bo	ng into any altered or new outlet/outfall or to change the p ard and obtain prior permission of the Board in this effe	lace of discharge, the Applicant shall have to inform et.
waste	eplicant shall provide comprehensive facility for treatm (sewage, sullage and liquid effluent generated from yously so that the quality of final effluent conforms to the	n canteen), and operate and maintain the same

(Member Secretary/Chief Engr./Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Environmental Engineer

W. B. Pollution Control Boardinued

Operation & Execution Cell

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are easily biodegradable

Consent to MIS. Shakambhari Ispat & Power Kimited	
For its unit at Villi Madandih, Po Bartonia, P.S Neturia	
Dist- Purulia, Pin-723121.	,,,,,,,,,,

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling	
01	Domestic	pH	Between: 5 5 to 9.0 7	Yearly	
E-101	C SOSTABOLIS CONT.	Total Suspended Solids	Not to exceed: 100 mg/l.	0	
- (8)		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 20 mg/1.		
		Chemical Oxygen Demand	Not to exceed : 250 mg/l.		
3		Oil & Grease	Not to exceed: 10 mg/1.	100	
15				THE STATE OF THE S	
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		ASSESSED FOR THE PARTY OF THE P		<u></u>	
			D EXECUTE		
			OF STREET		

09.	The Applicant falls in the
10.	Daily water consumption for the following purposes should not exceed :-
	 Industrial cooling, spraying in mine pits and boiler feed water → 60.0 KL (Water used for gardening should be included in this category of use)

Domestic purpose
 → 5:0 KI
 Processing whereby water gets polluted and the pollutants

Processing whereby water gets polluted and the pollutants are not easily biodegradable

KI

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)
Environmental Engineer

W. B. Pollution Control Board
Operation & Execution Centinued.

Consent to MIS. Shakambhari Ispat & Power Limited
for its unit at VIII: Madandih, P.O. - Bartonia, P.S. - Neturia,
Dist-Purulia, Pin-723121.

- 11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below:

Table-II

Stack No.	Stack height from	Stack attached to (sources and control system.		Velocity of gas emission	Concen	Concentrations of parameters not to exceed		of emiss		Frequency of emission sampling
	GL., (in mts.)	if any);	WE	m/sec	SPM (mg/Nm³)	CO (%v/v)	AL			aampinig
S-I	30 m existing	Ol no. Induction (25 Tou/be	Furnace Ich)with		50	1				
S-2		bilter)	eD(hag		A SECTION		1			, .
S-3	100				NEED TO A			1		
S-4	\$ 25	1101	TOTAL Y		de la	EV E	30/			
S-5						430			0	
S-6										
S-7										
S-8										
S-9										
S-10										

(Member Secretary/Chief Engr./Sr. Linv. Engr. / Env. Engr. / Asst. Env. Engr.)

Consent to MIS. Shakambhari Tspat & Power Limited.

for its unit at VIII: Madandih, P.O. Bantonia, P.S. - Aletuaia,

Dist: - Purulia, Pin - 723121.

14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.

15. The Applicant shall observe the following fuel consumption pattern:-

Sl. No.	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Electricity	A	1X25 MT/heat Induction.
02			
03			
04		AND THE RESERVE	
05			

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below:

Type of waste	Quantity	Treatment	Disposal
Slag	825 MT/Mouth		land billing.
			- 1

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:

Time	Limit in dB(A) Leq
Day Time (06 a.m. to 09 p.m.)	75
Night Time (09 p.m. to 06 a.m.)	70

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause misance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- 19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- 22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises:
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain-shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

(Member Secretary/Chief, Engr./ Sr. Env. Engr. / Env. Hingr / Asst Env. Hingr Environmental Engineer

W. B. Pollution Control Board Operation & Execution Cell Consent to MIs Shakambhani Ispal & Power Kimitel.

for its unit at VIII: Madandih, Po-Bantonia, P.S-Netunia,
Dist-Punulia, Pin-723121.

- The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- 26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
- The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- 35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
- The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions See Annexure.

(Member Secretary Chief Ener Sr. Line Line: / Ener / Ener / Asst. Env. Ener. Environmental Engineer
W. B. Pollution Control Board

Operation & Execution Call

Annexure to Consent Letter Number - CO128922

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN-723121.

- The unit should comply all the conditions issued in earlier Environmental Clearance, Consent to Establish and Consent to Operate.
- The unit shall comply the directives issued by the Board vide memo no.630-WPBA/Red(Prl/Cont(81)/2002Part-IIIdated30/07/2019 & 805-WPBA/Red(Prl/Cont(81)/2002Part-III dated 07/02/2020.
- The unit should obtain all the statutory licenses as applicable from other concerned Govt, Department.
- 4. This consent may be revoked at any time on violation of environmental norms.
- 5. The unit shall submit a status of compliance of the conditions stipulated in EC.
- This consent to Operate is valid for operation of 8th Induction Furnace- 1x25 Ton/batch for manufacturing of M.S.Billets-4700 MT/Month.

Environmental Engineer
West Bengal Pollution Control Board
Environmental Engineer
W. B. Pollution Control Board

Operation & Execution Cell

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg. No. - 10A, Block - LA, Sector-III Salt Lake City, Kolkata-700 098



Consent Letter Number: CO128 973

Memo Number: 281 - WPBA/ReQ(Pr)/Cont(82)/02-P+-VI

Date: 14/08/2020

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to:
MS. Shakan Bhari Depart & Power Ltd. (Address of Regd. office/Head/Office/City Office)
(hereinafter referred to as Applicant) for its unit located at VIII: Madandih, P.O Bartenia P.S Xleduria, Dist- Punulia, Pin - 723121
(Detailed address of the manufacturing unit) for a period from Date of issue to 31/07/2023
to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any
instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.
Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.
The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

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For and on behalf of the State Board

(Member Secretary/Chief, Engr./ Sr. Env. Engr. /

W. B. Pollution Control Board
Operation & Execution Cell

Consent to

ANNEXURE

Consent to MIS. Shakambhari Ispat & Power Hol.	
for its unit at VIII: Madaulih, P.O Bastonia, P.S Xeturia,	***************************************
Dist-Purulia, Pin-723121	
Conditions:	
01 TI: G	

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	M. S. Billets	9700 MT/Mouth
02	Ferro Manganese	2050 MT/MONT
03	Silico Manganese	2210 MT/Mouth.
04	Account the same of the same o	22/01/1/10004.
05	the state of the s	IGAL
06	The state of the s	
07	Secretary of the second	and the same of th
08	The second second	and the same of th
09		
10	The state of the s	
11	Comment of the second	
12	And I want to be a superior	VE 19

- 07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
- 08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst.

gr. / Env. Engr. / Asst. Env. Engr. Environmental Engineer

W. B. Pollution Control Board
Operation & Execution Cell

(3)
Consent to Mfs. Shakambhari Fspat & Power Ltd.
for its unit at Villi Madandih, P.O. Bantonia, P.S Neturia,
Dist-Purulia, Pin-723121
The state of the s

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Donestic	pH	Between: 5.5 to 9.0	Yearly
		Total Suspended Solids	Not to exceed: [O Ong/1.	carry
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 3 0 mg/1.	
		Chemical Oxygen Demand	Not to exceed: 250 mg/1.	
14		Oil & Grease	Not to exceed: 10 mg/1.	35.
	100	· ARATE WILLIAM STATE	- The	
	t)		9	
		A STATE OF STREET STREET, SECTION OF STREET, SECTIO	Later the lot	56
121	-	to be delicated to the position of the	3720 VA E	
		State from 12000 to the Marie & Co	E TO WAR E	
	1	South and the second se	No. of Control	
		APON Escaro, a Chime Handalle	The Section States and the Section of the Section Sect	
		taken adapat yang menang adapat bahasan dalah salah	Contract and Contr	
		The second secon	No. of Section 2	¥ 1
			Valuation of the Control of the Cont	
		Agents of the second of the se	And the Bast of Laborat	
		The second of the second of the second of	Kp can conver	
haores .			56 (040) 140 (17)	

- 09. The Applicant falls in the _______Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.
- 10. Daily water consumption for the following purposes should not exceed:-
 - Industrial cooling, spraying in mine pits and boiler feed water 230.00 (Water used for gardening should be included in this category of use)
 - Domestic purpose → 5'.0" KL
 - Processing whereby water gets polluted and the pollutants are easily biodegradable

 KI
 - Processing whereby water gets polluted and the pollutants are not easily biodegradable

 KI

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

(Member Secretary/Chief Engr./ Sr. Env. Engr.

(4)
Consent to MIS. Shakambhari Ispat & Power Utol.
for its unit at VIII: Madandih, P.O Bartania, P.S Neturia,
0)
Dist-Purulia, Pin-723121

- 11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- 12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below: See American

Stack No.	Stack height from	Stack attached to (sources and control system.		/hrof gas		Concentrations of parameters not to exceed			exceed	Frequency of emission sampling
¥2.	G.I., (in mts.)	if any):	WE:	m/sec	SPM (mg/Nm³)	(%v/v)				
S-I	/	6522 FEEE			OMERCA THEORYM	SACTION DESCRIPT	SELECT SELECT		- 1	
S-2	National Les		TOTAL STATE OF THE	III Deller						
S-3	I SECTION AND ADDRESS OF THE PARTY OF THE PA							1		
S-4		10				oj d Val				46
S-5					\searrow		9			
S-6		=		1		/	/			U-m
S-7						100		/		
S-8	3									
S-9		# (%	8	140		20				
5-10						¥0				1 100

Recretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr. / Environmental Engineer

W. B. Pollution Control Board

Operation & Execution Cell

(5)
Consent to MLS. Shakambhani Ispat & Power Utd.
for its unit at Villi Madaudih, P.OBartonia, P.S X eturia
Dist-Purulia, Pin-723121

- 14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern:

SI. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01		8	
02	77		
03			
04		-604, NAMES A. B NAMES	Altore.
05			

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below: - See Applicant -11

Type of waste	Quantity	Treatment Treatment	Disposal
_	PARTIES AND ADDRESS OF	TEN OFTE A STREET	ian s
. \	Day were to	AND THE TOTAL PROPERTY OF	11

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:-

Time 10	Limit in dB(A) Leg
Day Time (06 a.m. to 09 p.m.)	65 min
Night Time (09 p.m. to 06 a.m.)	CC

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for compliance with the terms and conditions of the consent.
- 19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the
- 21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution
- 22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe
 23. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

(Member Secretary/Chief Engr./Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Consent to Mls. Shakambhari Ispat & Power 11d.

for its unit at VIII: Madandih, P.O. - Bastonia, P.S. - Weturia,

Dist-Purulia, Pin-723121.

- 24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- 26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- 30. The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- 31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- 32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
- 34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- 35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.

 The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions See Annexure, - III

(Member Secretary/Chief Engr./ Sr. Env. Engr. Environmental Engineer)

W. B. Pollution Control Board Operation & Execution Cell

Annexure - I

Annexure to Consent Letter Number - CO128973

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist-Purulia, PIN--723121.

Stack No.	Stack height from G.L (in mts.)	Stack attached to (sources and control system, if any)	Volume Nm³/hr	Velocity of gas emission m/sec	Concentration of parameters not to exceed		Frequency of emission sampling	
	(mincs)				PM (mg/Nm³)	CO (% v/v)		-
S-1	30.0 m (common)	Induction Furnaces (2x25Ton/batch) provided with Individual APCD(Bag Filer)	-	-	50	1	ā	Quarterly
S-2	30.0 m	Individual stack, individual APCD -Bag Filter provided to Submerged Electric Arc Furnaces(2x9MVA)	-		50	1		Quarterly

Environmental Engineer West Bengal Pollution Control Board
Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Annexure - II

Annexure to Consent Letter Number - CO128973

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN--723121.

	Ougatitu	Treatment	Disposal
Type of waste	Quantity	Treatment	Reused in process
Ferro Manganese Slag	3050 MT/month	•	Disposal to Iron recovery unit
Induction Furnace Slag	1464 MT/month		
Silico Manganese Slag	2210 MT/month		Land filling
	775 MT/month		Reused in process
MS Scrap	88 MT/month		Reused in process
Dust from SEAF de-dusting unit			Land filling
Dust from IF de-dusting unit	12 MT/month	•	Land Hilling

Environmental Engineer West Bengal Pollution Control Board

Annexure-III

Annexure to Consent Letter Number - CO128973

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN--723121.

- The unit should comply all the conditions issued in earlier Environmental Clearance, Consent to Establish and Consent to Operate.
- The unit should obtain all the statutory licenses as applicable from other concerned Govt.
- The unit shall construct the concrete road around raw material handling area within 4 months.
- 4. The unit shall minimized fugitive emission at emission sources and working areas.
- 5. This consent may be revoked at any time on violation of environmental norms.
- 6. The unit shall submit a status of compliance of the conditions stipulated in EC.
- 7. The unit shall develop greenbelt at least 33% of the total plant area.
- 8. This consent to Operate is valid for operation of newly installed Induction Furnaces(2x25 Ton/batch) for manufacturing of M.S.Billets-9700 MT/Month and Submerged Electric Arc Furnaces(2x9MVA) for manufacturing Ferro Manganese-3050 MT/month & Silico Manganese-2210 MT/month.

Environmental Engineer West Bengal Pollution Control Board



West Bengal Pollution Control Board

(Department of Environment, Government of West Bengal)
Paribesh Bhawan, Bldg. 10A, Block LA
Sector III, Bidhannagar, Kolkata 700 106
Tel: 2335-6730, 2335-9088/7428/8211/6731/0261/8861
Fax: (0091) (033) 2335-2813

Memo No.

233-

WPBA/Red(Prl)/Cont(82)/02-Pt-VI

Date: 16 / 03 / 2021

To

M/s. Shakambhari Ispat & Power Limited Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN--723121.

Sub.: Amendment of Consent to Operate for your unit located at Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN--723121.

Ref. (i) Consent to Operate certificate CO128973 issued vide memo no.281-WPBA/Red(Prl)/Cont(82)/02- Pt-VI dated 14-08-2020.

(ii) Your letter Ref no.SIPL/CTO-AMEND/JAN/2021 dated 15.01.2021.

Sir,

In reference to the above, this is to inform you that the following amendments are made in the above mentioned Consent to Operate certificate issued by this office:-

Conditions:-

01. The consent is valid for manufacture of:-

CTO (CO128973) issued dt. 14/08/2020	Amendment of CTO (CO128973)
(2x9 MVA) for manufacturing	(2X9 MVA) for manufacturing
Ferro Manganese-3050 TPM Or Silico Manganese -2210 TPM	Ferro Manganese/Silico Manganese/Ferro Chrome/Ferro Silicon/Pig Iron – 31575 TPA (Maximum) / 2632 TPM(Maximum) (any of above)

The unit shall abide by all other condition as mentioned in amendment Environmental Clearance (EC) issued vide no. F.No.J-11011/201/2013-IA.II(I) dated 29.04.2020 and NOC(NO164512) issued vide memo no.246-2N-21/2012 (E) dated 14.09.2020 in favour of the expansion project.

This letter may be treated as an annexure to the *Consent to Operate* certificate no. CO128973 dated 14.08.2020. All other terms & conditions of the above mentioned Consent to Operate will remain unchanged.

Thanking you,

Yours faithfully,

Environmental Engineer Operation & Execution Cell

Expansion

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg. No. - 10A, Block - LA, Sector-III Salt Lake City, Kolkata-700 098



Consent Letter Number: C0128998

Memo Number: 335 - WPBA/Red (Pn1) | Cont (82) | 02 Pt-VJ Date: 13/11/2020,

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to:
Mls. Shakambhari Tspat & Power Kinsit-D.
(Address of Regd. office/Head/Office/City Office)
(hereinafter referred to as Applicant) for its unit located at existing unit premises in
VIII: - Madardih, P.O. Bartonia, P.J Neturia,
Dist-Purulia, Pin 723121
(Detailed address of the manufacturing unit)
for a period from date of 188 12 10 31 07/2023
to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.
Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.
The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

ANNEXURE

Consent to Mk. Shakambani Tepal & Power Kimital
for its unit at Villi Madaudih, P.O Barteria, P.S Neturia,
Oist-Purulia, Pin-723121

Conditions:

01. This Consent is valid for the manufacture of :-

SI. No.	Name of major products and by-products	Quantity manufactured per month
01	TMT bars/wines	1, 20, 000 TPA
02	(Rolling Mill-4007PD)	
03		
04		
05	WEST BE	NGAL
06		
07		
08		
09		
10		
11		
12		7/7

02.	The Applicant shall remain responsib	ble for	quantity and	d quality	of liquid	effluent and air emission	S.
-----	--------------------------------------	---------	--------------	-----------	-----------	---------------------------	----

03. Daily discharge of industrial liquid effluent shall not exceed necycles	e o	f ii	dustr	al li	quid	efflu	ent s	hall r	ot e	xcee	ď	ne	cyc	lee	Υ.	***************************************	. KI	4
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- 06. The Applicant shall discharge liquid effluent to Septic tank to 8 oakpit (place of discharge) through 01 (out) nos. outlets / outfalls.
- 07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
- 08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-1 in page 03.

(Member Secretary/Chief-Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

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Consent to Mls. Shakambari Pepert & Power Limited
for its unit at VIII: Madardih, Po-Bartonia, P.S Neturia,
Dist-Puzulia, Pin-723121

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Mixed	pH	Between: 5.5 to 9.0	Yearly
-770.1 1		Total Suspended Solids	Not to exceed: 10 Omg/1.	-
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 20 mg/l.	
34		Chemical Oxygen Demand	Not to exceed : 2 0 mg/l.	
		Oil & Grease	Not to exceed: 10 mg/1.	
19	\		1.17	
		I II I I I I I I I I I I I I I I I I I	O A I	
		WESTBEN	TAL	
			The second	

				A CONTRACTOR OF THE PARTY OF TH	0.00
10	Dally water consumption	for the	following nurposes	should	not exceed :-

- Domestic purpose
 KI
- Processing whereby water gets polluted and the pollutants
 are not easily biodegradable

 KI

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

(Member Secretary/Chief-Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Consent to Mls. Shakambari Ispat & Power Kimited
for its unit at VIII: Madaulih, Ro.-Barturia, P.S.-Neturia.
Dist-Purulia, Pir-723121

- The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below:

Table-II

Stack No.	Stack height from	Stack attached Ao (sources and control system.	Volume Nm³/hr.	Velocity of gas emission	Concen	Frequency of emission sampling				
	G.I., (in mts.)	if any):	WE	5 m/sec	SPM (mg/Nm ³)	(%\/\)	AL			
S-I	\	As	per-	existin	ga	8210	geone	ent.		
S-2										
S-3		1						1		
S-4						y A				
S-5		9	1442							
S-6										
S-7										
S-8					7					
S-9					1					
S-10										

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

(5)	
Consent to Mls. Shakambari Ispat & Power Limited	· · · · · · · ·
for its unit at VIII: Madandih, Ro Bartonia, P.S Neturia,	
Dist-Purulia, Pin-723121.	
2131 = 1 W(W(X) 1 1 K 1 Z) Z	

- 14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern:

SI. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01		W	
02			
. 03			
04			
05			

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below:-

Type of waste	Quantity	Treatment	Disposal

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:-

Time	Limit in dB(A) Leq		
Day Time (06 a.m. to 09 p.m.)	75		
Night Time (09 p.m. to 06 a.m.)	70		

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- 19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- 22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

(Member Secretary/Chief Engr./Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Environmental Engineer

W. B. Pollution Control Borcontinued......

Operation & Execution Control Cont

Consent to Mls. Shakambari Ispat & Power Limited	•••••
for its unit at Vill: Madandih, Po - Bastonia, P.S Neturia,	
Dist-Punulia, Pin-723121	

- The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- 25. The Applicant shall get the samples of hazardous wastes/leachates analysed at least once in _______ from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
- 26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- 30. The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- 31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- 32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
- 34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- 35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
- The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions See Annexure

(Member Secretary Chief Engr. Sr. Env. Engr. | Fav. Engr. Ass. Env. Engr. Environmental Engineer)

Annexure to Consent Letter Number - CO128998

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN--723121.

- The unit should comply all the conditions issued in earlier Environmental Clearance, Consent to Establish and Consent to Operate.
- The unit should obtain all the statutory licenses as applicable from other concerned Govt. Department.
- 3. This consent may be revoked at any time on violation of environmental norms.
- 4. The unit shall submit a status of compliance of the conditions stipulated in EC.
- This consent to Operate is valid for operation of enhancement of capacity of Rolling Mill from 600TPD to 1000 TPD without oil fired reheating furnace by directly charging the hot billets.

Environmental Engineer
West Bengal Pollution Control Board

Expansion CFO

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg. No. - 10A, Block - LA, Sector-III Salt Lake City, Kolkata-700 098



Consent Letter Number: C0131924

S. Shakambhari

Memo Number: 46- WPBA/Red(Pol)/cont(82)/02 Part - VI

of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to:

Date: 10/03/2021,

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control

.....(Address of Regd. office/Head/Office/City Office)

For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

(hereinafter referred to as Applicant) for its unit located at VIII Madandih, P.O Bartonia,
P.S Neturia, Dist-Purulia, Pin-723121
(Detailed address of the manufacturing unit)
for a period from date of issue to 31/07/2023
to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.
Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.
The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant. This consent is valid for operating 1x100 TPD & 1x600 TPD
DRI Kilms for production of Sponge Iron - 224000 Ton/Year. and both the kilms are provided with WHRBS (10TPH & 64 TPH)
and both the Kilns are provided with WHRBS (10TPH 2 64 TPH)

ANNEXURE

Consent to MS. Shakambhari Ispat & Power Ltd.
for its unit at Vill Madandih, P.O Bartonia, P.S Neturia,
Dist-Purulia, Pin-723121

Conditions:

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month /ear
01	Spange Tron	224000 TPA
02		
03		
04		
05	WEST BE	NGAL
06		
07		
08		
09		
10		
11	THE RESERVE OF THE PERSON OF T	
12		The state of the s

02.	The Applicant shall	remain responsible	for quantity	and quality	of lig	und effluent and	d air emissions.
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- 03. Daily discharge of industrial liquid effluent shall not exceed Recycled KL.

- 07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
- 08. The *Applicant* shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the *Standard* as given in Table-I in page 03.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

C013192	4		
Consent to Mls. S	hakambhari Tspat &	Power Ltd.	
for its unit at Mill.	Madandih, P.O Barto	onia, P.SNeturia,	
Dist-Puru	lia, Pin-723121		
	Table-I		
			Frequency

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Domestic	pH	Between: 5.5 to 9.0	
		Total Suspended Solids	Not to exceed: 100 mg/1.	Yearly
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/1.	
		Chemical Oxygen Demand	Not to exceed: 250 mg/1.	
-		Oil & Grease		
			Not to exceed: 0 mg/1.	1.6
-				Smith In an
1500			ACCUMULATION .	
		MOTOFIL	OAL	100
		VVESIBEN	LAL	Sept Comment
		Control of the Contro	Stories and the second	
		The state of the s	disconnection of the second	
				100 4 100
		COLUMN LINES AND ADDRESS AND A		
		CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	III MARKET IN	

10.	Daily	water consumption	for the	following	purposes	should	not	exceed	:-
-----	-------	-------------------	---------	-----------	----------	--------	-----	--------	----

- Domestic purpose → 2 K
- Processing whereby water gets polluted and the pollutants are not easily biodegradable

 → \(\times \) \(\t

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

(Member Secretary/Chief Engr./Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Consent to Mls. Shakambhari Ispat & Power Utal.	
for its unit at Vill: - Madandih, P.O Bastoria, P.S Neturia,	•••
Dist-Purulia, Pin-723121	

- 11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- 12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.
- 13. The *Applicant* shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the *Standard* as given in Table-II below:

Table-II

Stack No.	Stack height from	Stack attached to (sources and control system.	Volume Nm³/hr.	Velocity of gas emission	Concentrations of parameters not to exceed				o exceed	Frequency of emission sampling
	G.I., (in mts.)	WE	m/sec	SPM (mg/Nm³)	CO (%v/v)	AL			Jamping	
S-I		-		See	Ann	exu	re-	T-		
S-2	\									3
S-3								1		
S-4						FAE	STATE OF THE PARTY			
S-5										
S-6										
S-7										
S-8						Sec. 19				
S-9										
S-10					Man					

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Phv. Engr. / Asst. Env. Engr.)

Environmental Engineer

W. B. Pollution Control Board Operation & Execution Cell Consent to MIS. Shakambhari Ispat & Power Ltd.

for its unit at VIII: - Madandih, P.O. - Bartonia, P.S. - Meturia,

Dist-Purulia, Pin - 723121

- 14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern:-

5	Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
	01	Coal	18700 MT/ Mouth	Rotary Kilms (100 TPD 2600 TPS
1	02	THE RESERVE		
	03			
	04			
	05			

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below:-

Type of waste	Quantity	Treatment	Disposal	
Dolochar	3135 MT/Mouth	and ~ onto ma	to be used in AFBC	
			Boiler.	

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:-

Time	Limit in dB(A) L _{eq}
Day Time (06 a.m. to 09 p.m.)	65
Night Time (09 p.m. to 06 a.m.)	55

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- 19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- 21. The *Applicant* shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- 22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Consent to MS. Shakambhari Ispat & Power Ltd.
for its unit at VIII: Madandih, P.O.-Bartonia, P.S.-Neturia,
Dist-Purulia, Pin-723121

- 24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- 26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27. The *Applicant* shall submit to the *State Board* by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- 31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
- 34. The *Applicant* shall make an application to the *State Board* in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- 35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
- 36. The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions See Annexure. IT

(Member Secretary/Chief Engr./ Sr. Env. Engr. Env. Engr.)

W. B. Pollution Control Board Operation & Execution Cell

Annexure-II to Consent Letter Number - CO131924

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN--723121.

- The unit should comply all the conditions issued in earlier Environmental Clearance, Consent to Establish and Consent to Operate.
- The unit shall abide by all other condition as mentioned in amendment Environmental Clearance (EC) issued vide no. F.No.J-11011/201/2013-IA.II(I) dated 29.04.2020 and amendment NOC issued vide memo no.246-2N-09/2012 (E) dated 14.09.2020 in favour of the expansion project.
- The unit should obtain all the statutory licenses as applicable from other concerned Govt.
 Department.
- 4. This consent may be revoked at any time on violation of environmental norms.
- 5. The unit shall submit a status of compliance of the conditions stipulated in EC.
- The Consent to Operate is valid for operation of DRI Kilns(1x100 TPD & 1X600TPD) for manufacturing of sponge iron-2,24,000 ton/year and the unit should restricted the total production capacity-5,44,000 ton/year considering all DRI Kilns(4x100 TPD, 2X350 TPD & 1X600TPD).

Environmental Engineer West Bengal Pollution Control Board

Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Annexure - I

Annexure to Consent Letter Number – CO131924

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN-723121.

Stack No.	Stack height from G.L (in mts.)	Stack attached to (sources and control system, if any)	Volume Nm³/hr	Velocity of gas emission m/sec	Concentration of parameters not to exceed		equency of sion sampling
	(in incs.)				PM (mg/Nm ³)	CO (% v/v)	
1	35.0 m (common with 3 rd DRI Kiln)	4th Rotary Kiln of capacity 100 TPD- 1(one) no. with WHRB-1(one) no. – 10 TPH provided with individual 3 field ESP and connected with Common stack of existing 100TPD 3rd DRI Kiln	-	•	50		Quarterly
2	72.0 m	Rotary Kiln of capacity 600TPD- 1(one) no. with WHRB-1(one) no. – 64 TPH provided with individual 5 field ESP and connected with individual stack.	-		50		Quarterly
	-	Pneumatic dust conveying to ABC from Cooler Discharge for 4th DRI Kiln(100 TPD)	-	-			
-		Pneumatic dust conveying to ABC from Cooler Discharge for DRI Kiln(600 TPD)	-	-			
4	30.0 (common)	Product House for 4th DRI Kiln(100 TPD) with separate bag filter and connected with existing stack of product house of 3x100TPD Kilns	-	-	50		Quarterly

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Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Page 1 of 2

5	30.0 (common)	Product House for DRI Kiln(600 TPD) with separate bag filter and connected with existing stack of product house of 2x350TPD Kilns			50	Quarterly
6	30.0 (common)	Iron Ore Crusher for 4th DRI Kiln(100 TPD) with separate bag filter and connected with existing stack of iron ore crusher of 3x100TPD Kilns	Ţ		50	Quarterly
7	30.0 (common)	Iron Ore Crusher for DRI Kiln(600 TPD) with separate bag filter and connected with existing stack of iron ore crusher 2x350 TPD Kilns		-	50	Quarterly
8	30.0 (common)	Coal Crusher for 4th DRI Kiln(100 TPD) with separate bag filter and connected with existing stack of coal crusher & silo of 3x100TPD Kilns		-	50	Quarterly
9	30.0 (common)	Coal Crusher for DRI Kiln(600 TPD) with separate bag filter and connected with existing stack of coal crusher & silo of 2x350 TPD Kilns		-	50	Quarterly
10	30.0 (common)	Intermediate Bin & Product Separation House for 4th DRI Kiln(100 TPD) with separate bag filter with stack followed by pneumatic dust conveying to common silo is connected with existing stack of Intermediate Bin & Product Separation House of 3x100 TPD Kilns	-		50	Quarterly
11	30.0	Intermediate Bin & Product Separation House for DRI Kiln(600 TPD) with separate bag filter with separate stack followed by pneumatic dust conveying to common silo of Intermediate Bin & Product Separation House of 2x350 TPD Kilns			50	Quarterly

Environmental Engineer
West Bengal Pollution Control Board

Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Page 2 of 2

"Expansion"

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg. No. - 10A, Block - LA, Sector-III Salt Lake City, Kolkata-700 098



Consent Letter Number: C0132113

Memo Number: 348- WPBA/Red (Pol)/Cont (82)/02

Date: 22/12/2021

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to:
Mls Shakambhari Ispat & Power Ltd.
(Address of Regd. office/Head/Office/City Office)
(hereinafter referred to as Applicant) for its unit located at existing premises Vill, Madanlih
P.O Bartonia, P.S Neturia, Dist-Purulia, Pin-723121
(Detailed address of the manufacturing unit)
for a period from date of issue to 31/07/2023
to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.
Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.
The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

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For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Sr. Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

ANNEXURE

Consent to Mls Shakambhari Ispat & Power Ltd.
for its unit at existing primises Vill. Madandih, P.O Bartonia,
P.S Meturia, Dist-Purulia, Pin-723121

Conditions:

01. This Consent is valid for the manufacture of :-

SI. No.	Name of major products and by-products	Quantity manufactured per month
01	Feno Manganese on	2632 MT/Mouth
02	Silico Manganese or	2632 MT/ Mouth
03	Ferro Chrome on	2632 MT/Month
04	Ferro Silicon Or	2632 MT/ Mouth
05	Pig Iron or in combination of as	2632 MT/Mouth
06	And believe with the surface of the	Short William College Street College
07		
08	To the second se	
09		
10		
11		
12		

02.	The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.	*
03.	Daily discharge of industrial liquid effluent shall not exceed recycles	KL
04.	Daily discharge of domestic liquid effluent shall not exceed	KL
O.E.	Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed	KL
06.	The Applicant shall discharge liquid effluent to Septic Tank after treatment (place of other through nos. outlets / outfalls.	discharge)
07.	To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have	e to inform

the Board and obtain prior permission of the Board in this effect.

O8. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same

continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

(Member Secretary/Chief Engr. / Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Sr. Environmental Engineer
W. B. Pollution Centrol Board
Operation & Execution Cell

Continued.....

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-0	104	10

09. The Applicant falls in the

Consent to MIs. Shakombhari Ispat & Power Ltd.	
for its unit at existing premises Vill. Madandih, Po-Bartonia,	*************************
P.S Meturia, Dist-Purulia, Pin-723121	********

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Mixed	pH	Between: 5.5 to 9.0	Yearly
10		Total Suspended Solids	Not to exceed: 10 Omg/1.	10019
1,		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/l.	
		Chemical Oxygen Demand	Not to exceed: 250 mg/l.	
		Oil & Grease	Not to exceed: /o mg/1.	51
19	_			
			20112-0-2011-0-2011-0-2011-0-2011-0-2011-0-2011-0-2011-0-2011-0-2011-0-2011-0-2011-0-2011-0-2011-0-2011-0-2011	
		N. AN. P. CHARLE WILL BARRIES STREET IN	E 45% /A B	
		WEST	I - A	
III III		W W Hard Sea II		
		ANNO SECURE AND DESCRIPTION OF THE PARTY OF		
Diff		MERCHANICAL AND UNITED AND THE SAME	CONTRACTOR IN	
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ALL D		Application of the second of t	The same of the sa	Carried -
			Manual Control of the	
		A RESIDENCE OF THE PARTY OF THE	ones d	
	The street of			

09.	The Applicant falls in the	Ked .	Category of the Water (Prevention
	and Control of Pollution) Cess Act, 197 provisions of the said Act and Rules made	77 and Rules made thereunder and	d the Applicant shall compl	y with the
10.	Daily water consumption for the followi	ng purposes should not exceed :-		8
	 Industrial cooling, spraying in mine p (Water used for gardening should be 		152.00	KL
	Domestic purpose		2.00	KL
		Mari Was Spi		

Red

 Processing whereby water gets polluted and the pollutants are easily biodegradable

 Processing whereby water gets polluted and the pollutants are not easily biodegradable

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

(Member Secretary/Chief Engr. / Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Sr. Environmental Engines: W. B. Pollution Control Bate: Operation & Execution Cas

Continued.....

Consent to Mls. Shakambhari Ispat & Power Hd.
for its unit at existing primises VIII. Madandih, P.O Bartonia,
P.S Meturia Dist-Purulia, Pin-723121

- The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below: See Annexue-I

Table-II

Stack No.	Stack height from	Stack attached Ao (sources and control system,	Volume Nm³/hr,	Velocity of gas emission	Concent	rations o	f parame	ters not to	exceed	Frequency of emission sampling	
	G.I., (in mts.)	if any):	WE:	m/sec	SPM (mg/Nm³)	CO (%v/v)	AL				
S-I	\	Name of Street, or other parts of the Street, or other parts of th									
S-2						Mestaly.	Stage S	enti		36	
S-3								1	E E		
S-4										Value T	
S-5		11	1								
S-6		\$1.91	T. T.							F-M3	
S-7											
S-8	+		111 8:	1 1111							
S-9				L.							
S-10		Telegraphy (

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Sr. Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

and from		(5)		
Consent to M.C.	Shakambhan	1 Ispat &	Power	Lta.

for its unit at existing premises VIII. Madandih, P.O. Barteria, P.S. - Neturia, Dist - Purulia, Pin-723121

- 14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern:

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01			and oberation where the idet is used
02			
03			
04			
05		99	

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below: See Annexure - II

Type of waste	Quantity	Treatment	Disposal
(TERES IN	timeles labelou a	GERRALING MEAN ALTONOMIC	
100	SHOP THE PARTY OF	and the second s	

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:-

Time	Limit in dB(A) L _{eq}
Day Time (06 a.m. to 29 p.m.)	75
Night Time (09 p.m. to 06 a.m.)	70

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- 19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- 22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste/

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

W. B. Poliution Control Board
Operation & Execution Cell

Continued.....

Sr. Environmental Engineer

Consent to MIS. Shakambhari Ispat & Power Ltd.	
for its unit at existing premises Vill. Madandih, P.C	

- The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- 26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- 30. The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- 31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
- 34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- 35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
- The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions See Annexure - III

(Member Secretary/Chief Engr./ Sizen Frager / Fant Engr. (Asst. Env. Engr.)

Annexure - I

Annexure to Consent Letter Number - CO132113

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN-723121.

Stack No.	height from G.L (in mts.)	neight om G.L	Volume Velocity Nm³/hr of gas emission m/sec		Concentration of parameters not to exceed			Frequency of emission sampling
	N				PM (mg/Nm ³)	CO (% v/v)		
j	30.0 m	Individual stack, individual APCD –Bag Filter provided to Submerged Electric Arc Furnaces(2x9MVA)	-		50	1		Quarterly
	10.50 m	D.G.Set(500 KVA) with canopy system		-	150			Quarterly

Sr. Environmental Engineer West Bengal Pollution Control Board

Sr. Environmental Engineer
W. B. Poliution Control Board
Operation & Execution Call

Annexure - II

Annexure to Consent Letter Number - CO132113

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN--723121.

Ferro Manganese slag	Quantity 2050 MT/m	Treatment	Disposal
ilico Manganese slag	3050 MT/month 2210 MT/month	2	Re-use in process
erro chrome slag	3050 MT/month		Land filling
erro Silicon slag	263 MT/month	**	to be TSDF facility
ig Iron slag	1315 MT/month	X (4);	Re-use in Induction Furnace
ust from SUAF de-dusting unit	88 MT/month	(4)	To be sold to cement mfg unit
	oo wi/monto	•	Reused in process

Sr. Environmental Engineer West Bengal Pollution Control Board

Sr. Environ. Antal Engine
W. B. Pollution Control Board
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Annexure-III

Annexure to Consent Letter Number - CO132113

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN--723121.

- The unit shall abide by all other condition as mentioned in amendment Environmental Clearance (EC) issued vide no. F.No.J-11011/201/2013-IA.II(I) dated 29.04.2020 and NOC(NO164512) issued vide memo no.246-2N-21/2012 (E) dated 14.09.2020 in favour of the expansion project.
- The unit should obtain all the statutory licenses as applicable from other concerned Govt. Department.
- The unit shall construct the concrete road around raw material handling area within 4 months.
- 4. The unit shall minimized fugitive emission at emission sources and working areas.
- 5. This consent may be revoked at any time on violation of environmental norms.
- 6. The unit shall submit a status of compliance of the conditions stipulated in EC.
- 7. The unit shall develop greenbelt at least 33% of the total plant area.
- This consent to Operate is valid for operation of newly installed Submerged Electric Arc Furnaces(2x9MVA) for ferro alloy plant of capacity-31575 TPA.

Sr. Environmental Engineer West Bengal Pollution Control Board

Sr. Environmental Engineer
W. B. Pollution Centrol Board
Operation & Execution Cell

"Expansion"

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg. No. - 10A, Block - LA, Sector-III Salt Lake City, Kolkata-700 098



Consent Letter Number: C0132113

(Prevention and Control of Pollution) Act, 1981.

Memo Number: 348- WPBA/Red (Pol)/Cont (82)/02

Date: 22 12 2=21

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 &

26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to:

MS. Shakamahharai T8pat 2 Power 149

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at existing. Premises Vill. Madamalih,

P.O. - Bartonia, P.S. - Neturia, Distr. Punulia, Pin-723121

(Detailed address of the manufacturing unit)

for a period from date of issue to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air

Control Contro

For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Sr. Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

ANNEXURE

Consent to Mls Shakambhari Ispat & Power Ltd.
for its unit at existing premises Vill. Madandih, P.O Bartonia,
P.S Meturia, Dist-Purulia, Pin-723121

Conditions:

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Ferro Manganese on	2632 MT/Mouth
02	Silico Manganese on	2632 MT Mouth
03	Ferro Chrome on	2632 MT/Month
04	Ferro Silicon or	2632 MT/ Mouth
05	Pig Iron or in combination of any	2632 MT/ Mouth
06		
07	The second secon	
08		
09		
10		
11		
12		

02.	2. The Applicant shall remain responsible for quantity and quality of liquid effluent ar	nd air emissions.	*
03.	3. Daily discharge of industrial liquid effluent shall not exceed	S	KL
04.	Daily discharge of domestic liquid effluent shall not exceed	.6	KL
05.	(e domestre) inquite erritain shall not exceed		KL
06	The Applicant shall discharge liquid officent & Septic Tank after the	eatment	

- 07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
- 08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Sr. Environmental Engineer
W. B. Pollution Centrol Board
Operation & Execution Cell

Continued.....

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Consent to Mls. Shakambhari Ispat & Power Ltd.	
for its unit at existing premises Vill. Madandih, P.O Bartonia,	
P.S Neturia, Dist-Purulia, Pin-723121	

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Mixed	pH	Between: 5.5 to 9.0	Yearly
01	· HACG	Total Suspended Solids	Not to exceed: 15 Omg/1.	1
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/1.	
		Chemical Oxygen Demand	Not to exceed: 250 mg/1.	
		Oil & Grease	Not to exceed: /o mg/1.	
		ADDRESS OF THE PARTY OF THE PAR		
				- In Year
		WESTBEN	IGAL	

- 10. Daily water consumption for the following purposes should not exceed :-

 - Domestic purpose → 2'00 KL

 - Processing whereby water gets polluted and the pollutants
 are not easily biodegradable

 KI

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

(Member Secretary/Chief Engr./Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Sr. Environmental Engines
W. B. Pollution Control Box

Operation & Execution Ces

Continued......

Consent to Mls. Shakambhari Ispat & Power Hd.

for its unit at existing premises VIII. Madandih, P.O. - Bartonia,

P.S.-Neturia, Dist-Purulia, Pin-723121

- 11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- 12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below: See Annexure I

Table-II

Stack No.	Stack height from	Stack attached to (sources and control system.	Volume Nm³/hr.	Velocity of gas emission	Concentrations of parameters not to exceed			exceed	Frequency of emission sampling	
	G.I., (in mts.)	ifany):	WES	m/sec	SPM (mg/Nm³)	(%v/v)	AL			
S-I	1									
S-2										
S-3								1		
S-4			7			1	7			
S-5									A	
S-6										
S-7										
S-8							F			
S-9										
S-10										

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Sr. Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Continued.....

Consent to Mls. Shakambhari Ispat & Power Ltd.

for its unit at existing premises VIII. Mandandih, P.O. Bartania,

P.S.- Neturia, Dist-Purulia, Pin-723121

- 14. The *Applicant* shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the *State Board's* staff as well as *State Board's* authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern:-

SI. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01			
02			
03			
04			
05			

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below:- See Annexure-II

Type of waste	Quantity	Treatment	Disposal
		AND DESCRIPTION OF THE PARTY OF	
		-	

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:-

Time	Limit in dB(A) Leq		
Day Time (06 a.m. to 99 p.m.)	65		
Night Time (09 p.m. to 06 a.m.)	155		

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- 19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- 21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- 22. The *Applicant* shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste/

(Member Secretary/Chief Engr. / Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Sr: Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Continued.....

Consent to MIS. Shakambhari Ispat & Power Ltd.

for its unit at existing premises Vill. Madandih, P.O. - Bantonia,

P.S. - Neturia, Dist - Purulia, Pin - 723121

- 24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- 26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- 30. The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- 31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- 32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
- 34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- 35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
- 36. The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions See Annexury - TII

(Member Secretary/Chief Engr./ SiSt.nt.rt/der./ Enw. Engr.)

W. B. Pollution Control Source Operation & Execution Coll

Annexure to Consent Letter Number - CO132113

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist-Purulia, PIN-723121.

	2		-	No.
	10.50 m	11 O.O.	30.01	height from G.L (in mts.)
	D.G.Set(500 KVA) with canopy system	provided to Submerged Electric Arc Furnaces(2x9MVA)		Stack attached to (sources and control system, if any)
				Volume Nm³/hr
				Velocity of gas emission m/sec
	150	50	PM (mg/Nm³)	Concentratio
			CO (% v/v)	Concentration of parameters not to exceed
Quarterry		Quarterly		Frequency of emission sampling

Sr. Environmental Engineer
West Bengal Pollution Control Board

W. B. Pollution Control Board
Operation & Execution Cell

Page 1 of 2

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN-723121.

	Dust from SEAF de-ducting unit					2210 MT/n		retro Manganese slag
th .	iui -		nth	nun .		nth	NA .	Trauncht
Reused in process	To be sold to cement mfg unit	Ke-use in Induction Furnace	Do marin I - 1	to be TSDF facility	Land Hilling	Total Sills	Re-use in process	Disposal

Sr. Environmental Engineer
West Bengal Pollution Control Board

Sr. Environments Copyrate
W. B. Pollution Centrol Soard
Operation & Execution Cell

Annexure-III

Annexure to Consent Letter Number - CO132113

Additional Conditions issued to M/s. Shakambhari Ispat & Power Limited at existing factory premises - Vill- Madandih, P.O-Bartoria, P.S-Neturia, Dist- Purulia, PIN--723121.

- The unit shall abide by all other condition as mentioned in amendment Environmental Clearance (EC) issued vide no. F.No.J-11011/201/2013-IA.II(I) dated 29.04.2020 and NOC(NO164512) issued vide memo no.246-2N-21/2012 (E) dated 14.09.2020 in favour of the expansion project.
- The unit should obtain all the statutory licenses as applicable from other concerned Govt. Department.
- 3. The unit shall construct the concrete road around raw material handling area within 4 months.
- 4. The unit shall minimized fugitive emission at emission sources and working areas.
- 5. This consent may be revoked at any time on violation of environmental norms.
- 6. The unit shall submit a status of compliance of the conditions stipulated in EC.
- 7. The unit shall develop greenbelt at least 33% of the total plant area.
- This consent to Operate is valid for operation of newly installed Submerged Electric Arc Furnaces(2x9MVA) for ferro alloy plant of capacity-31575 TPA.

Sr. Environmental Engineer West Bengal Pollution Control Board

Sr. Environmental Engineer
W. B. Pollution Centrol Board
Operation & Execution Cell



WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Government of West Bengal)

Asansol Regional Office

Dr. B.C. Roy Road, Mouza-Shitla,

Kalyanpur Satellite Township Project (KSTP),

City-Asansol, PO-Dakhin Dhadka, PS-Asansol (North),

Pin-713302, Dist.-Paschim Bardhaman

Phone-0341-2999280/2999281

Memo No.: 1292-WPBA/Red (Prl)/Cont(82)/02 Part-VI

Date: 17-/11/2022

To

M/s. Shakambhari Ispat & Power Ltd.

Vill: Madandih,

P.O. Bartoria, P.S.Neturia, Dist-Purulia, Pin: 723121.

Sub: Amendment of Consent to Operate-Regarding

Ref: Consent letter no. CO110135 issued vide memo no.1767 -WPBA/Red (Prl)/Cont(81)/2002 dated 09/08/2018.

Sir,

With reference to as stated above, 'Consent to Operate' was granted vide Consent letter Number CO110135 dated 09/08/2018 and the same is hereby amended as mentioned below:

- In Page no. 2 under conditions-01 & in under 'Name of products and by-products' under SI.
 No. 02 Electricity generation should be read as 16.5 MW in place of 29 MW.
- Under Annexure-A in Table -II under Sl no.03 the 'Stack height from G.L.(Meters)' should be read as 35.0 mtrs in place of 42.0 mtrs.

All other conditions mentioned in the 'Consent to Operate' will remain unchanged.

This letter may be considered as an annexure to 'Consent to Operate' issued vide Memo No. Memo No. 1767 -WPBA/Red (Prl)/Cont(81)/2002 dated 09/08/2018.

Yours faithfully,

Environmental Engineer Asansol Regional Office

ANNEXURE-13A, 13B







TEST REPORT

1.	Name of the	Industry / Project		: Shakambhari Ispat & Power Limited.				
2.	2. Address			: Vill Madandih, P.O - Bartoria, P.S - Nuturia, District - Purulia,				
				Pin - 723121				
3.	Type of Indu	ıstry		: Steel & Power Unit				
4.	Sampling Pla	an & Procedure		: ENV/SOP/02				
5.		om the Sampling Method & Plan		: No				
6.	Type of Sam	ple		: Work Zone Noise				
7.	Sample ID			: ENV/425/M/(TR)N/I/22-23				
8.	Date of Stud	y		: 22/02/2023				
9.	Reporting D	ate		: 28/02/2023				
10.	10. Method No.			: IS 15575 (Part 2), 2022				
11.	11. Time of Duration of Noise			: 20 Minutes				
12.	Height from	Ground Level		: 4 feet				
13.	Sample Mon	itoring by		Mr. Sujoy Dasgupta				
		RESULT OF NOI	SE LE	VEL STUDY Time :10:00 - 10:20A.M				
				<u>DAY TIME</u>				
1. Lo	cation : In-be	tween AFBC Boiler & DRI 4 X 100	TPD					
Sl.	Unit	Minimum		Maximum Leq Remarks				
No.		dB(A)		dB(A) dB(A)				
01.	dB(A)	76.4		80.2 78.70 East Side				
02.	dB(A)	78.6		81.8 80.49 West Side				
03.	dB(A)	78.8		82.2 80.82 North Side				
04.	dB(A)	75.4		78.6 77.29 South Side				
				Average dB(A) Leq 79.32				

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 [033-25792891/25497490, Fax : 033-25299141

Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 (033-25792889

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74.6





FORMAT NO.: ENV/FM/53

TEST REPORT

1.	Name of the	Industry / Project	:	Shakambhari Ispa	nt & Power Limited.				
2.	Address		:	Vill Madandih, P.O - Bartoria, P.S - Nuturia, District - Purulia,					
				- 723121		All all			
3.	Type of Indu	ıstry	:	Steel & Power Uni	t				
4.	Sampling Pl	an & Procedure	:	: ENV/SOP/02					
5.	Deviation from the Sampling Method & Plan			No					
6.	. Type of Sample			Work Zone Noise					
7.	Sample ID		:	ENV/425/M/(TR)	N/II/22-23				
8.	Date of Stud	y		22/02/2023					
9.	Reporting D	ate	1	28/02/2023					
10.	Method No.			: IS 15575 (Part 2), 2022					
11.	Time of Dur	ation of Noise		: 20 Minutes					
12.	Height from	Ground Level		: 4 feet					
13.	Sample Mon	itoring by		Mr. Sujoy Dasgupta					
		RESULT OF NO	DISE LEV	E LEVEL STUDY Time :10:30 - 10:50A.M					
				DAY TIME					
2. Lo	cation : Near (Control Room (SMS Division)							
Sl. No	o. Unit	Minimum		Maximum	Leq	Remarks			
		dB(A)		dB(A)	dB(A)				
01.	dB(A)	75.8		80.6	78.83	East Side			
02.	dB(A)	77.5		79.8	78.80	West Side			
03.	dB(A)	80.4		82.2 81.39 North Side					

78.8

Average dB(A) Leq

Reviewed By:

04.

Dy. Quality Manager

dB(A)

Approved By:

South Side

 $7\overline{7.19}$

79.05

Quality Manager

>End of Report<

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141

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TEST REPORT

1. Name of the Industry / Project : Shakambhari Ispat & Power Limited.					2010	
2.	Address		:	Vill Madandih, P.O - Bartoria, P.S - Nuturia, District - Purulia,		
				- 723121		20 20
3.	Type of In	dustry	:	Steel & Power Unit		4.4
4.	Sampling	Plan & Procedure	:	ENV/SOP/02		
5.	Deviation	from the Sampling Method & Plan	•	No		
6.	Type of Sa	mple	••	Work Zone Noise		
7.	Sample ID		:	ENV/425/M/(TR)N/	III/22-23	
8.	Date of Stu	udy	:	22/02/2023		
9.	Reporting	Date	••	28/02/2023		
10.	Method No	0.	••	IS 15575 (Part 2), 2022		
11.	Time of D	uration of Noise	••	: 20 Minutes		
12.	Height fro	m Ground Level	••	: 4 feet		
13.	Sample Mo	onitoring by		Mr. Sujoy Dasgupta		
		RESULT OF NOISE	LEV	EVEL STUDY Time :11:00 - 11:20 A.M		
				<u>DAY TIME</u>		
3. Loca	ation : Insid	e Rolling Mill				
Sl.	Unit	Minimum		Maximum	Leq	Remarks
No.		dB(A)		dB(A)	dB(A)	
01.	dB(A)	72.2		76.8	75.08	East Side
02.	dB(A)	75.4		78.6 77.29 West Side		West Side
03.	dB(A)	76.6		79.8	78.49	North Side
04.	dB(A)	74.8		80.6	78.60	South Side
				Average dB(A) Leq	77.36	

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

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TEST REPORT

1. Name of the Industry / Project :				Shakambhari Ispat	& Power Limited.	201 201
2.	Address		:	Vill. – Madandih, P.O – Bartoria, P.S – Nuturia, District – Purulia,		
				- 723121		7.5
3.	Type of In	dustry	:	Steel & Power Unit		
4.	Sampling	Plan & Procedure	:	ENV/SOP/02		
5.	Deviation	from the Sampling Method & Plan	:	No		
6.	Type of Sa	mple	:	Work Zone Noise		
7.	Sample ID		:	ENV/425/M/(TR)N/	/IV/22-23	
8.	Date of Stu	ıdy	:	22/02/2023		
9.	Reporting	Date	:	28/02/2023		
10.	10. Method No.			IS 15575 (Part 2), 2022		
11.	11. Time of Duration of Noise			20 Minutes		
12.	Height fro	m Ground Level	: 4 feet			
13.	Sample Mo	onitoring by		Mr. Sujoy Dasgupta		
		RESULT OF NOISE	LEV	EVEL STUDY Time: 11:30 - 11:50 A.M		
				<u>DAY TIME</u>		
4. Loca	ation : In fro	ont of MCC Building (DRI 2 X 350 TP)	D)			
Sl.	Unit	Minimum		Maximum	Leq	Remarks
No.		dB(A)		dB(A)	dB(A)	
01.	dB(A)	75.7		78.2	77.13	East Side
02.	dB(A)	74.4		73.6 74.02		West Side
03.	dB(A)	76.6		81.2	79.48	North Side
04.	dB(A)	78.8		80.7	79.85	South Side
				Average dB(A) Leq	77.62	

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141

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TEST REPORT

1. Name of the Industry / Project : Shakami				Shakambhari Ispat	& Power Limited.	201 201	
2.	Address		:	Vill Madandih, P.O - Bartoria, P.S - Nuturia, District - Purulia, Pin			
				- 723121		7 5	
3.	Type of In	dustry	:	Steel & Power Unit			
4.	Sampling	Plan & Procedure	:	ENV/SOP/02			
5.	Deviation	from the Sampling Method & Plan	:	No			
6.	Type of Sa	mple		Work Zone Noise			
7.	Sample ID		:	ENV/425/M/(TR)N/	/V/22-23		
8.	Date of Stu	ıdy	:	22/02/2023			
9.	Reporting	Date		28/02/2023			
10.	10. Method No.			IS 15575 (Part 2), 2022			
11.	11. Time of Duration of Noise			20 Minutes			
12.	Height fro	m Ground Level	:	: 4 feet			
13.	Sample Mo	onitoring by		Mr. Sujoy Dasgupta			
		RESULT OF NOISE	LEV	EVEL STUDY Time :12:00 - 12:20 P.M			
				<u>DAY TIME</u>			
4. Loca	ation : In fro	nt of MCC Building (DRI 600 TPD)					
Sl.	Unit	Minimum		Maximum	Leq	Remarks	
No.		dB(A)		dB(A)	dB(A)		
01.	dB(A)	74.8		79.4	77.68	East Side	
02.	dB(A)	75.3		80.5 78.64		West Side	
03.	dB(A)	76.9		81.8	80.01	North Side	
04.	dB(A)	77.3		81.6	79.96	South Side	
				Average dB(A) Leq	79.07		

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141

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TEST REPORT

1. Name of the Industry / Project				Shakambhari Ispat	& Power Limited.	M M	
2.	. Address			Vill Madandih, P.() - Bartoria, P.S - Nuturia	a, District - Purulia, Pin	
				- 723121		7 2	
3.	Type of In	dustry	:	Steel & Power Unit			
4.	Sampling	Plan & Procedure	:	ENV/SOP/02			
5.	Deviation	from the Sampling Method & Plan	:	No			
6.	Type of Sa	mple	:	Work Zone Noise			
7.	Sample ID		:	ENV/425/M/(TR)N/	/VI/22-23		
8.	Date of Stu		:	22/02/2023			
9.	Reporting	Date	: 28/02/2023				
10.	10. Method No.			IS 15575 (Part 2), 2022			
11.	11. Time of Duration of Noise			20 Minutes			
12.	Height fro	m Ground Level	:	4 feet			
13.	Sample M	onitoring by		Mr. Sujoy Dasgupta			
		RESULT OF NOISE	LEV	EVEL STUDY Time :12:30 - 12:50 P.M			
				<u>DAY TIME</u>			
5. Loca	ation : Near	SAF Control Room (Ferro Alloy Divi	sio	1)			
Sl.	Unit	Minimum		Maximum	Leq	Remarks	
No.		dB(A)		dB(A)	dB(A)		
01.	dB(A)	81.4		83.6	82.64	East Side	
02.	dB(A)	78.6		82.4 80.90 West Side		West Side	
03.	dB(A)	79.8		81.7	80.85	North Side	
04.	dB(A)	80.9		82.7	81.89	South Side	
				Average dB(A) Leq	81.57		

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

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TEST REPORT

1. Name of the Industry / Project : Shakambhari Ispat & Power Limited.				M M			
2.	Address		:	Vill Madandih, P.O - Bartoria, P.S - Nuturia, District - Purulia, P			
				- 723121		H H	
3.	Type of In	dustry	:	Steel & Power Unit			
4.	Sampling	Plan & Procedure	:	ENV/SOP/02			
5.	Deviation	from the Sampling Method & Plan	:	No		17	
6.	Type of Sa	mple	••	Work Zone Noise			
7.	Sample ID		:	ENV/425/M/(TR)N/	VII/22-23		
8.	Date of Stu	ıdy	:	22/02/2023			
9.	Reporting	Date	••	28/02/2023			
10.	Method No.			IS 15575 (Part 2), 2022			
11.	11. Time of Duration of Noise :			20 Minutes			
12.	Height fro	m Ground Level	:	: 4 feet			
13.	Sample Mo	onitoring by		Mr. Sujoy Dasgupta			
		RESULT OF NOISE	LEV	EVEL STUDY Time :1:00 – 1:20 P.M			
				<u>DAY TIME</u>			
4. Loca	ation : Near	TG Building (CFBC Boiler)					
Sl.	Unit	Minimum		Maximum	Leq	Remarks	
No.		dB(A)		dB(A)	dB(A)		
01.	dB(A)	70.4		76.5	74.44	East Side	
02.	dB(A)	69.8		71.9 70.98		West Side	
03.	dB(A)	74.6		77.2	76.09	North Side	
04.	dB(A)	75.9		79.1	77.79	South Side	
				Average dB(A) Leq	74.82		

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141

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TEST REPORT

1. Name of the Industry / Project				Shakambhari Ispat	& Power Limited.	MI M	
2.	. Address			Vill Madandih, P.O - Bartoria, P.S - Nuturia, District - Purulia, Pin			
				- 723121		9 8	
3.	Type of In	dustry	:	Steel & Power Unit			
4.	Sampling	Plan & Procedure	:	ENV/SOP/02			
5.	Deviation	from the Sampling Method & Plan	:	No			
6.	Type of Sa	mple	:	Work Zone Noise			
7.	Sample ID		:	ENV/425/M/(TR)N/	/VIII/22-23		
8.	Date of St	•	:	22/02/2023			
9.	Reporting	Date	:	28/02/2023			
10.	Method No	thod No. : IS 15575 (I			15575 (Part 2), 2022		
11.	Time of D	uration of Noise	: 20 Minutes				
12.	Height fro	m Ground Level	:	4 feet			
13.	Sample Mo	onitoring by		Mr. Sujoy Dasgupta			
		RESULT OF NOISE	LEV	EVEL STUDY Time :1:30 – 1:50 P.M			
				<u>DAY TIME</u>			
4. Loca	ation : Near	Coal Shed Area (RMH Yard)					
Sl.	Unit	Minimum		Maximum	Leq	Remarks	
No.		dB(A)		dB(A)	dB(A)		
01.	dB(A)	72.8		75.1	74.10	East Side	
02.	dB(A)	73.7		77.8 76.22 West :		West Side	
03.	dB(A)	74.9		80.5	78.55	North Side	
04.	dB(A)	73.1		81.6	79.16	South Side	
				Average dB(A) Leq	77.00		

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141

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NOISE MONITORING REPORT

Shakambhari Ispat & Power Limited

Vill. - Madandih, P.O - Bartoria, P.S - Neturia, District - Purulia, Pin - 723121

MONITORED BY:

ENVIROCHECK 189, Rastraguru Avenue, Calcutta - 700 028

Report No: ENV/425/M/(TR)N/I/2022-2023

Sampling Locations :	Near Main Gate	Date of Study :	22.02.2023
Category :	Steel & Power Unit	Day time :	6 AM to 10 PM

Time (hrs.)	L _{min}	L _{max}	L _{eq}	Day time L _{eq}
6:00 AM to 7:00 AM	73.9	77.2	75.86	
7:00 AM to 8:00 AM	72.3	75.8	74.39	
8:00 AM to 9:00 AM	70.0	77.9	75.54	
9:00 AM to 10:00 AM	71.2	74.5	73.16	
10:00 AM to 11:00 AM	70.4	74.3	72.77	
11:00 AM to 12:00 PM	74.2	76.7	75.63	
12:00 PM to 1:00 PM	71.2	74.5	73.16	
1:00 PM to 2:00 PM	70.4	74.3	72.77	73.36
2:00 PM to 3:00 PM	74.2	76.7	75.63	
3:00 PM to 4:00 PM	71.3	75.4	73.82	
4:00 PM to 5:00 PM	72.3	77.2	75.41	
5:00 PM to 6:00 PM	68.2	75.9	73.57	
6:00 PM to 7:00 PM	64.6	69.1	67.41	
7:00 PM to 8:00 PM	62.8	65.9	64.62	
8:00 PM to 9:00 PM	60.5	62.6	61.68	
9:00 PM to 10:00 PM	60.2	61.5	60.90	

Dat	e of Study :	22.02.2023 to 23.02.2023	10 PM to 6 AM

Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	59.4	62.8	61.42	
11:00 PM to 12:00 AM	58.2	60.6	59.56	
12:00 AM to 1:00 AM	57.2	59.9	58.76	
1:00 AM to 2:00 AM	58.2	59.6	58.96	61.71
2:00 AM to 3:00 AM	57.5	58.3	57.92	
3:00 AM to 4:00 AM	60.2	64.1	62.57	
4:00 AM to 5:00 AM	62.5	64.6	63.68	
5:00 AM to 6:00 AM	63.8	66.2	65.16	

L_{min}: Minimum Noise level

L_{max}: Maximum Noise level

L_{eq}: Equivalent sound energy

Compiled by : (Signature) Dr. Ajoy Paul

Envirocheck Seal Date: 28.02.2023

Certified by : (Signature) Dr. S. B. Chowdhury

H.O.

: 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141

H.O.: 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax: 033-25299
Laboratory: 189,190&192 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email: envcheck@cal2.vsnl.net.in/envirocheck50@gmail.com / Website: www.envirocheck.org
Branch Office: *Siliguri = Haldia * Durgapur * Dhanbad * Gangtok * Port Blair * Dehradun * New Delhi
Overseas: *UAE * Qatar * Netherlands











NOISE MONITORING REPORT

Shakambhari Ispat & Power Limited

Vill. - Madandih, P.O - Bartoria, P.S - Neturia, District - Purulia, Pin - 723121

MONITORED BY:

ENVIROCHECK 189, Rastraguru Avenue, Calcutta - 700 028

Report No: ENV/425/M/(TR)N/II/2022-2023

Sampling Locations :	Madandih Village	Date of Study :	22.02.2023
Category:	Steel & Power Unit	Day time :	6 AM to 10 PM

Time (hrs.)	L _{min}	L _{max}	L _{eq}	Day time L _{eq}
6:00 AM to 7:00 AM	41.9	51.5	48.94	
7:00 AM to 8:00 AM	42.8	51.6	49.13	
8:00 AM to 9:00 AM	45.7	54.6	52.12	
9:00 AM to 10:00 AM	49.4	56.3	54.10	
10:00 AM to 11:00 AM	48.1	55.3	53.05	
11:00 AM to 12:00 PM	59.6	60.1	59.83	
12:00 PM to 1:00 PM	58.2	60.0	59.16	
1:00 PM to 2:00 PM	57.4	59.2	58.28	55.03
2:00 PM to 3:00 PM	55.1	58.6	56.86	
3:00 PM to 4:00 PM	52.8	59.6	57.41	
4:00 PM to 5:00 PM	50.3	55.8	53.78	
5:00 PM to 6:00 PM	52.5	58.4	56.15	
6:00 PM to 7:00 PM	43.8	47.5	46.03	
7:00 PM to 8:00 PM	45.9	51.2	49.31	
8:00 PM to 9:00 PM	40.6	41.9	41.30	
9:00 PM to 10:00 PM	41.6	45.9	44.27	

Date of Study :	22.02.2023 to 23.02.2023	Night time :	10 PM to 6 AM
-----------------	--------------------------	--------------	---------------

Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	40.7	43.2	42.13	
11:00 PM to 12:00 AM	40.2	42.8	41.69	
12:00 AM to 1:00 AM	43.5	44.6	44.08	
1:00 AM to 2:00 AM	39.4	42.5	41.22	44.65
2:00 AM to 3:00 AM	39.0	41.7	40.56	
3:00 AM to 4:00 AM	41.6	45.9	44.27	
4:00 AM to 5:00 AM	43.8	47.5	46.03	1
5:00 AM to 6:00 AM	45.9	51.2	49.31	

L_{min}: Minimum Noise level

L_{max}: Maximum Noise level

L_{eq}: Equivalent sound energy

Dr. Ajoy Paul

Compiled by : (Signature)

Envirocheck Seal

Date: 28.02.2023



Certified by: (Signature) Dr. S. B. Chowdhury

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141

Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 (033-25792889

Email : envcheck@cal2.vsnl.net.in/envirocheck50@gmail.com / Website : www.envirocheck.org

Branch Office : *Siliguri = Haldia * Durgapur * Dhanbad * Gangtok * Port Blair * Dehradun * New Delhi









NOISE MONITORING REPORT Shakambhari Ispat & Power Limited

Vill. – Madandih, P.O – Bartoria, P.S – Neturia, District – Purulia, Pin – 723121

MONITORED BY:

ENVIROCHECK 189, Rastraguru Avenue, Calcutta - 700 028

Report No: ENV/425/M/(TR)N/III/2022-2023

Sampling Locations :	Near DM Plant	Date of Study :	22.02.2023
Category:	Steel & Power Unit	Day time :	6 AM to 10 PM

Time (hrs.)	L _{min}	L _{max}	L _{eq}	Day time L _{eq}
6:00 AM to 7:00 AM	64.5	69.6	67.98	
7:00 AM to 8:00 AM	60.2	64.8	63.89	
8:00 AM to 9:00 AM	65.6	68.4	66.91	
9:00 AM to 10:00 AM	63.1	68.2	66.15	
10:00 AM to 11:00 AM	60.2	66.6	63.67	1
11:00 AM to 12:00 PM	60.4	63.7	62.78	
12:00 PM to 1:00 PM	62.3	64.5	63.90	
1:00 PM to 2:00 PM	69.1	74.9	72.90	69.40
2:00 PM to 3:00 PM	67.9	78.7	76.04	1
3:00 PM to 4:00 PM	66.1	76.4	73.78	
4:00 PM to 5:00 PM	65.9	72.8	70.60	1
5:00 PM to 6:00 PM	67.2	72.5	70.10	1
6:00 PM to 7:00 PM	60.2	68.5	66.81	7
7:00 PM to 8:00 PM	61.3	64.6	63.15	
8:00 PM to 9:00 PM	60.5	63.2	62.67	
9:00 PM to 10:00 PM	59.9	60.4	60.16	

Date of Study: 22	2.02.2023 to 23.02.2023	Night time :	10 PM to 6 AM
-------------------	-------------------------	--------------	---------------

Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	55.3	59.4	57.82	
11:00 PM to 12:00 AM	54.3	58.9	57.18	
12:00 AM to 1:00 AM	53.5	57.6	56.02	
1:00 AM to 2:00 AM	52.4	58.6	56.52	62.65
2:00 AM to 3:00 AM	56.7	59.1	58.06	
3:00 AM to 4:00 AM	62.8	65.4	64.29	
4:00 AM to 5:00 AM	63.4	66.1	64.96	
5:00 AM to 6:00 AM	65.9	69.4	67.99	

L_{min}: Minimum Noise level

L_{max}: Maximum Noise level

 $L_{eq}\,$:Equivalent sound energy



Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal Date: 28.02.2023



Certified by : (Signature) Dr. S. B. Chowdhury н.о. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141

Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 (033-25792889 : envcheck@cal2.vsnl.net.in/envirocheck50@gmail.com / Website : www.envirocheck.org Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi Overseas : - UAE = Qatar = Netherlands









NOISE MONITORING REPORT

Shakambhari Ispat & Power Limited

Vill. - Madandih, P.O - Bartoria, P.S - Neturia, District - Purulia, Pin - 723121

MONITORED BY:

ENVIROCHECK 189, Rastraguru Avenue, Calcutta - 700 028

Report No: ENV/425/M/(TR)N/IV/2022-2023

Sampling Locations :	Near Laboratory Building (SMS Division)	Date of Study:	22.02.2023
Category :	Steel & Power Unit	Day time :	6 AM to 10 PM

Time (hrs.)	L _{min}	L _{max}	L _{eq}	Day time L _{eq}
6:00 AM to 7:00 AM	60.3	64.3	62.35	
7:00 AM to 8:00 AM	61.8	64.7	63.45]
8:00 AM to 9:00 AM	60.7	62.3	61.48	
9:00 AM to 10:00 AM	61.8	62.9	62.56	
10:00 AM to 11:00 AM	60.7	67.7	65.90	1
11:00 AM to 12:00 PM	62.8	66.2	64.15	1
12:00 PM to 1:00 PM	64.7	72.1	69.82	1
1:00 PM to 2:00 PM	64.9	68.6	65.96	67.46
2:00 PM to 3:00 PM	63.9	70.8	65.15	1
3:00 PM to 4:00 PM	65.1	73.5	71.08]
4:00 PM to 5:00 PM	68.9	76.7	74.36	
5:00 PM to 6:00 PM	65.9	69.7	67.78	1
6:00 PM to 7:00 PM	63.8	67.3	65.10]
7:00 PM to 8:00 PM	62.3	67.1	63.90	
8:00 PM to 9:00 PM	61.9	66.3	64.78	
9:00 PM to 10:00 PM	62.2	69.9	65.89	1

Date of Study :	22.02.2023 to 23.02.2023	Night time :	10 PM to 6 AM
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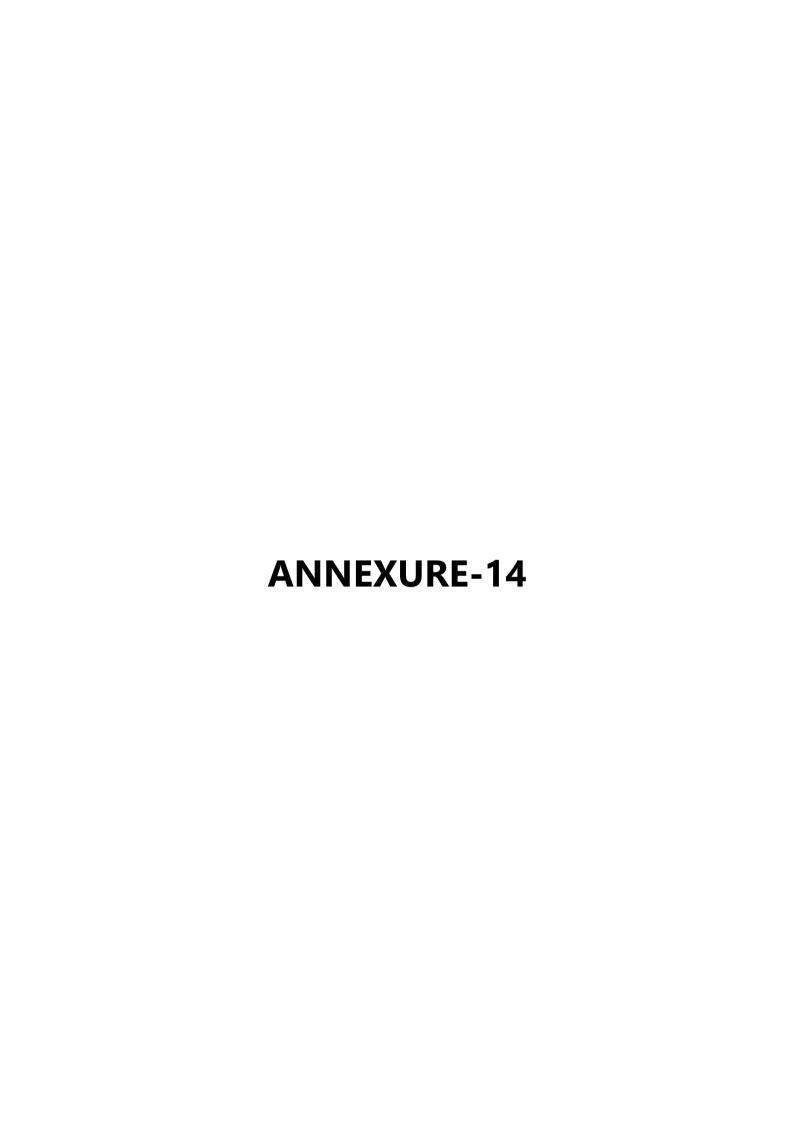
Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	60.7	68.1	65.89	
11:00 PM to 12:00 AM	60.7	65.7	63.91	
12:00 AM to 1:00 AM	61.6	67.2	63.78	
1:00 AM to 2:00 AM	60.2	62.8	61.65	64.95
2:00 AM to 3:00 AM	61.8	68.5	63.86	
3:00 AM to 4:00 AM	62.9	66.1	64.79	
4:00 AM to 5:00 AM	63.4	68.5	66.66	
5:00 AM to 6:00 AM	64.6	68.2	66.76	

L_{min}: Minimum Noise level

L_{eq}: Equivalent sound energy

Compiled by : (Signature) Envirocheck Seal Certified by : (Signature) Dr. Ajoy Paul Date: 28.02.2023 Dr. S. B. Chowdhury





minu



JRU GOPIRAM HOSPITAL

(A Unit of Guru Gopiram Institute of Health Annexe Trust)

Date: 25-07-22

Ananda chatterjee 190-474/M

BP-100/80 mm9 thy

PP- 80/nia

03-964 (RA)

W- 49.4 Kg

40 - Mariea a Wedonen

Hlo- Epicale Hemon baholar (Astholia)

AD -: Normal cho Dre

(Continu Home Medicin in "inholatin.

@ The monter-Le 1xunits

(3) Tab. Rondan (150) 1600m

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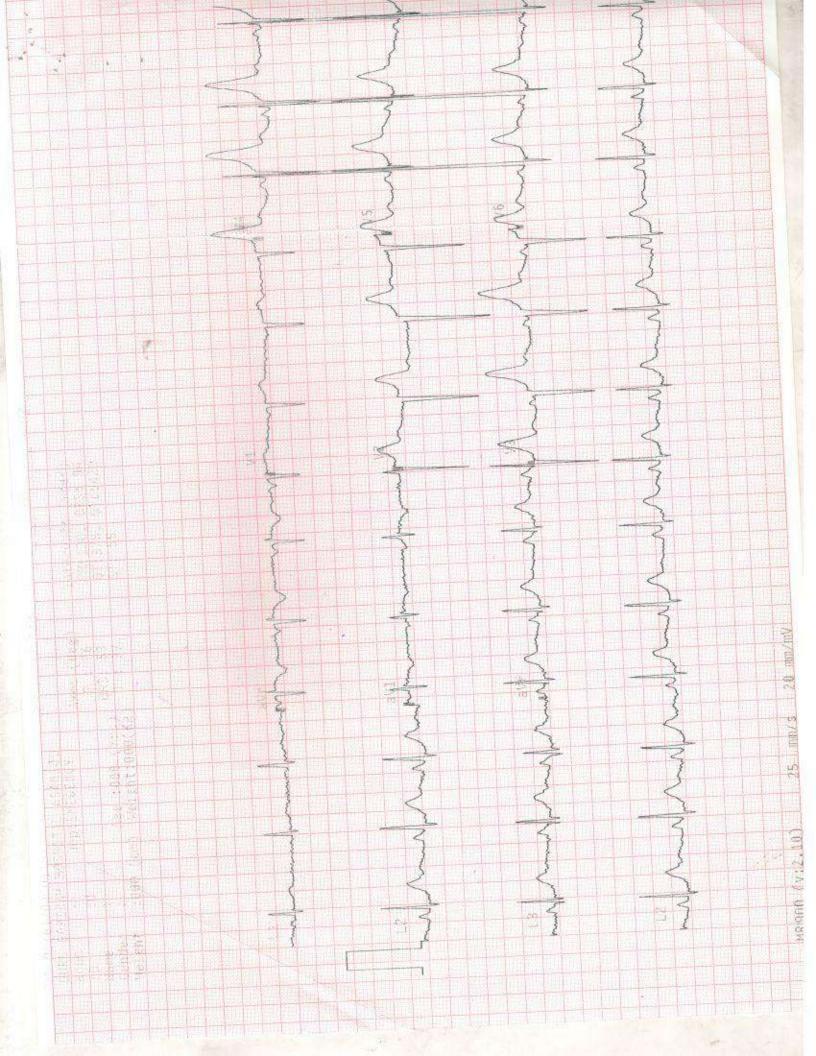
ESP

Biswakarma Nagar, Sitarampur - 713359, Dist. - Paschim Bartmamar

Clo- Do Vial Fon New).

Rx Plano. (Prok) 6/6.
Near Add > + 1+ +5 DS. (Prok) No

Colon my normal,





Shivakshi Rehabilitation Centre for Speech & Hearing

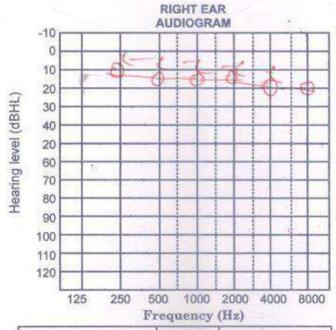
Ref. No.....07

PURE TONE AUDIOMETRY

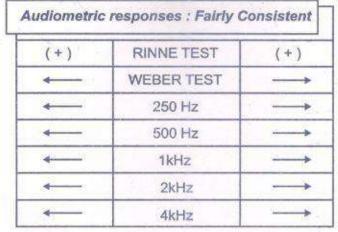
Date 25/08/22

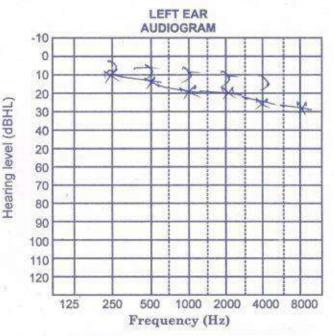
NAME: ANANDA CHATTERICE

AGE/SEX: Z3 M



Right Ear	PTA	Left Ear
15 : dBHL	1	18-3: dBHL
	- 11	





Rt Ear	SYMBOLS	Lt Ear
0	AC Unmasked	X
<	BC Unmasked	>
\wedge	AC masked	
I	BC masked]
1	No Response	1

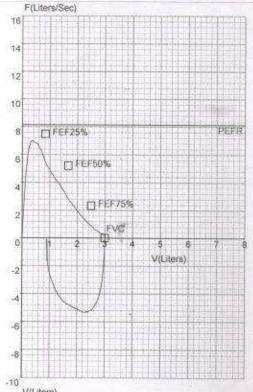
ASST. AUDIOLOGIST

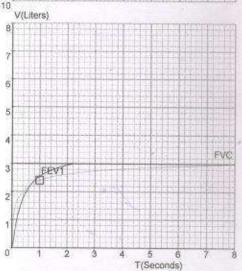
Provisional Diagnosis: Ble Hearing Sensitivity
Without normal Fing



SIPL 7 - ANANDA CHATTERJEE

47 Years / Male / Ht 163 Cms /49 Kgs / Non-Smoker





- Pre Medication Report :

Spirometery within Normal range as FVC% >= 80 And FEV1/FVC% > 70

- Pre COPD Severity Report:



Reg. No. 66735 (WBMC) - Doctor's Comments :

FVC TEST Date: 02-08-2022 (T1)

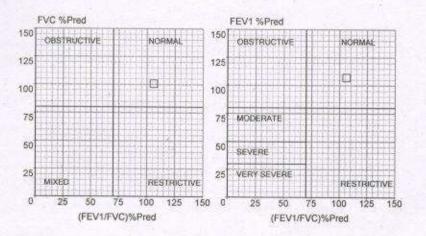
Pred Eqn : CLARITY

Eth.Corr: 100

Temp: 0°C

Ref By		NONE
--------	--	------

Parameter		Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L]	3.00	3.02	101	- 44		100
FEV1	[L]	2.40	2.57	107			(Me)
FEV.5	[L]	(***))	2.02		ee :	-	-
FEV3	[L]	2.91	92	2		122	777
FEV6	[L]	-	-	.ee-			-
PEFR	[L/s]	8.11	6.99	86	20		
FEF25-75	[L/s]	3.49	3.45	99	**	***	
FEF75-85	[L/s]		1.08	-	44		3208
FEF.2-1.2	[L/s]	6.06	5.62	93	25		
FEF25%	[L/s]	7.50	6.53	87	94.	**	(40)
FEF50%	[L/s]	5.23	3.64	70	2	-	-
FEF75%	[L/s]	2.34	1.34	58	жн		
FEV.5/FVC	[%]	140	66.76		***	122	2
FEV1/FVC	[%]	80.05	85.02	106	me.	**	
FEV3/FVC	[%]	97.00	-144	-	-	-	4
FEV6/FVC	[%]	-		**	-		10
FEV1/FEV6	[%]	:ee:	-				
FET	[8]		2.21		**	cee.	**
ExplTime	[S]	**	0.06	(44)			¥=
LungAge	[Y]	47.00	44.00	94		-	85
FIVC	[L]	e-1,	2.12		es.	-	-
PIFR	[L/s]	44	5.33	22	2		_
FIF25%	[L/s]	200	7.66	***	+		**
FIF50%	[L/s]		5.57	25	44	-	77
FIF75%	[L/s]	**	3.79	-	**		***
FIV.5	[L]	HH	2.07		+		
FIV1	[L]		**		cee:	-	**
FIV3	[L]	_		ata .	40	-	10
FIV.5/FIVC	[%]		97.83		40		-
FIV1/FIVC	[%]	NH.			***	AN.	**
FIV3/FIVC	[%]	_		ww.		See 1	**



GURU GOPIRAM HOSPITAL SITARAMPUR.



SITARAMPUR, ASANSOL

© 7091118888

• C.T.Scan•Digital X-Ray•Ultrasound•Echo Cardiography • E.C.G. • E.M.G. • EEG • NCV • OPG • Mammegraphy • BERA • Endoscopy

· Pathology · OPD · Pharmacy · Urofolowmetry

Patients Name : ANANDA CHATTERJEE Date of receipt : 25 07 22

Age : 47 7 years

Sex : Male / Female

Ref. by Dr : Self

Date of report : 25/07/22

4

HAEMATOLOGY

Test description	Result	Reference range	Unit
Haemoglobin	15-18	Male: - 13.8 -17.2	gm/dl
		Female:-12.0 – 15.0	
TLC	8200	4,000 - 11,000	cells/cu.mm
DLC			
1)	Neutrophil 65	40-80	%
ii)	Lymphocyte 28	20-40	%
iii)	Monocyte . O 2	2 - 10	%
iv)	Esoinophil OS-	1-6	%
v)	Basophil 00	<1	%
ESR	17	0-20	mm/h
Blo	od Group " A " ·		
Rh	Typing POSITIVE		Im

DR. Satabdi Mitra M.D. (PATH)

Counsultant Pathologist

GURU GOPIRAAM HOSPITAL

(A Unit of Guru Gopiraam Institute of Health Annexe Trust)

Name: -

Date: -

Age: -

Sex: -

Interpretation of ECG:-

· Rate: - Famin.

· Rhythm: - Legulon

· Axis:- (N)

• PR interval:- 128 MX

· QRS complex:- 94 MS

• QT interval: - 378 ms

• ST segment: 55 mg

· Twaves: - Immension in AVL, M.

Impression:-

Repeat ECA.

DR. DEEPTANGSPU GANGULY

Disclaimer: In no way this report can be utilized for any medico legal purpose. If there is any clinical discrepancy, this investigation may be repeated or reassessed.

Patient Name: MR ANANDA CHATERJEE		Age / Gender:	47 YR/ M	
RefdBy:		Date:	25/08/2022	

X-RAY OF CHEST(PA VIEW)

FINDINGS:-

Radiopacity seen tracking along the left lateral chest wall causing blunting of left CP angle Suggest pleural effusion.

Trachea shifted to left side left upper lobe collapse suggestive of atelectasis.

Fibrocystic opacities noted at left upper and mid and lower zone-Old infective.

Tiny nodular opacities noted at right mid and lower zones-infective.

Both the costo-phrenic and cardio-phrenic angles are normal.

Cardiac size is within normal limits.

There is no evidence of pleural effusion or pneumothorax.

Bony thoracic cage appears normal.

IMPRESSION:-

Above X-ray Findings are suggestive of Old Infective etiology? Bacterial In origin likely tuberculosis.

ADV CT IF CLINICALLY INDICATED.

Dr K. Nerella MD Radiologist Consultant Radiologist

Reg Num-95228

Disclaimer: It is an online interpretation of medical imaging based on clinical data.modern machines/procedures have their own limitation. If there is any clinical discrepancy, this investigation may be repeated or reassessed by other tests. Patients identification in online reporting is not established, so in no way can this report be utilized for any medico legal purpose. Any error in typing should be corrected immediately.





(A Unit of Guru Gopiram Institute of Health Annexe Trust)

		19
Ref.	No.	49

Date: 25.07.22

Avisekh kumon sinha Age-337/M

BP-120/10 mmg 12 W - 73.6 Key T- D PR- Ja/min 3802 - 991, (RA)

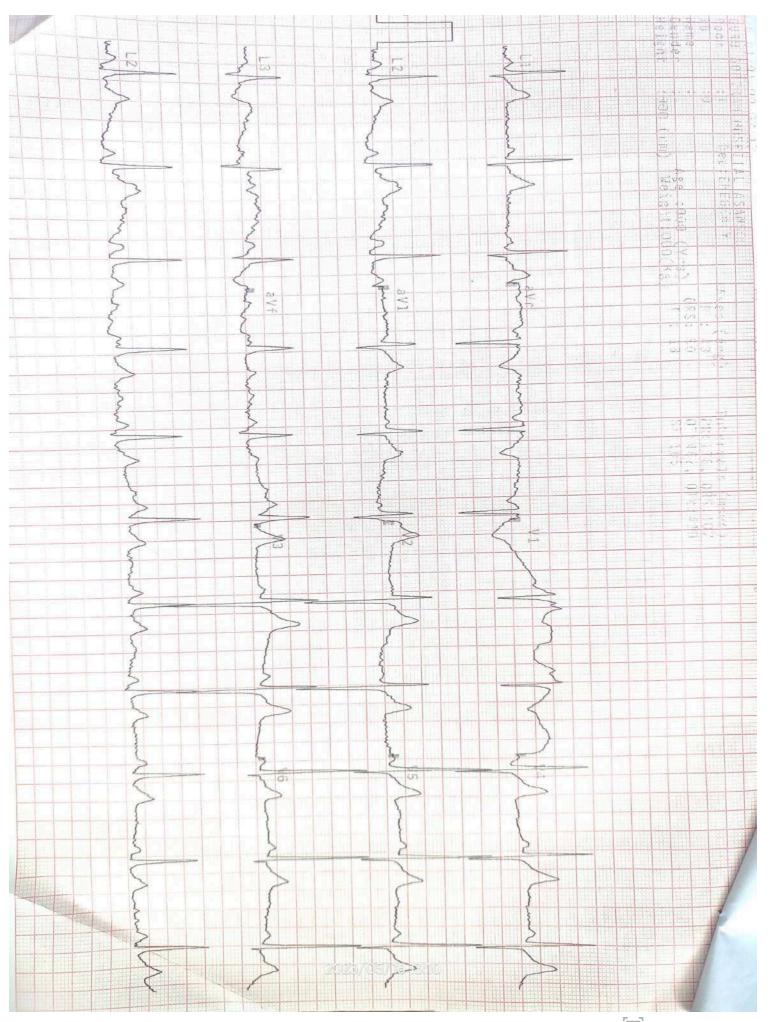
Ad ECh all leady CX P- DA View

Byle:

Regular chillent

UR. DEEPTANGSHU GANGUI M.B.B.S., M.D.

VA 6/6 , NG , NG ,





Shivakshi Rehabilitation Centre for Speech & Hearing

Ref. No....19

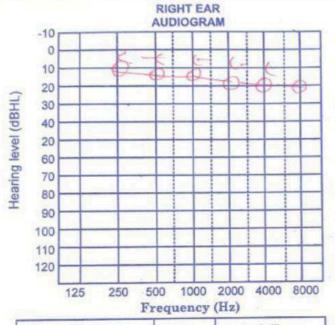
PURE TONE AUDIOMETRY

Date 79/22

NAME: AVICHER KUMAR SIAIHA

AGE/ SEX :

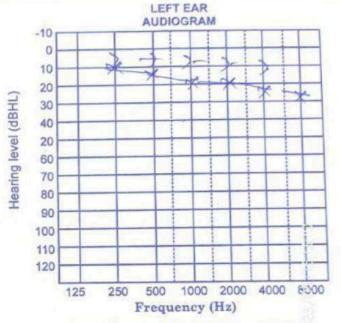
31/m



Right Ear	PTA	Left Ear
16.6: dBHL	- 1	18-3: dBHL
	II	

Audiometric responses : Fairly Consistent

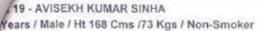
(+)	RINNE TEST	(+)
-	WEBER TEST	
4	250 Hz	\longrightarrow
-	500 Hz	
4—	1kHz	\longrightarrow
4-	2kHz	\longrightarrow
4—	4kHz	\longrightarrow

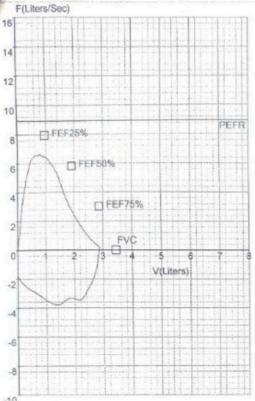


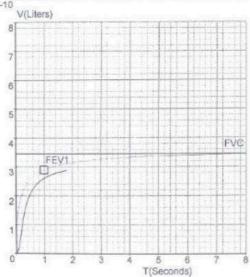
Rt Ear	SYMBOLS	Lt Ear
0	AC Unmasked	X
<	BC Unmasked	>
Δ	AC masked	
[_	BC masked]
1	No Response	1

PE VIEWWAR OGIST

Provisional Diagnosis: Blc-Heary Sensition,
without horal lind,
though







Pre Medication Report :
 Spirometery within Normal range as FVC% >= 80 And FEV1/FVC% > 70

Pre COPD Severity Report:

DR. BEEPS WICE NOTES AND .

M.B.B.S., M.D.

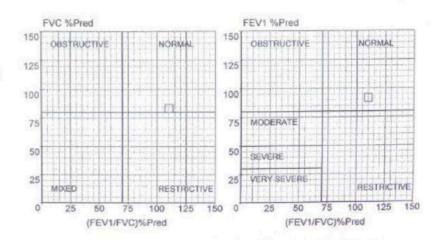
Reg. No. 66735 (WPMC)

FVC TEST	Pred Eqn : CLARI
Date: 25-07-2022 (T1)	Ref By : NONE

Parameter		Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L]	3.45	2.88	83			
FEV1	[L]	2.90	2.66	92			**
FEV.5	[L]		2.20	de	44	-	411
FEV3	[L]	3.34		**			
FEV6	[L]		-	-	**	**	
PEFR	[L/s]	8.95	6.64	74		**	**
FEF25-75	[L/s]	4.22	4.79	114	-	-	-
FEF75-85	[L/s]	***	1.53	**	**	-	***
FEF.2-1.2	[L/s]	7.26	5.91	81	~		
FEF25%	[L/s]	7.95	7.47	94	**	-	-
FEF50%	[L/s]	5.78	5.65	98	-	-	
FEF75%	[L/s]	2.98	1.93	65	No.	-	
FEV.5/FVC	[%]		76.35	-25	-	-	-
FEV1/FVC	[%]	84.02	92.40	110		44	**
FEV3/FVC	[%]	97.00				-	-
FEV6/FVC	[%]	-					- 179
FEV1/FEV6	[%]					-	-
FET	[S]	-	1.64			-	()
ExplTime	[S]		0.18	++	-		- 18
LungAge	[Y]	33.00	36.00	109		-	-8
FIVC	[L]	**	3.13	- 64	an .	440	- 0
PIFR	[L/s]	-	3.82				_ (5)
FIF25%	[L/s]		7.47	300	-	-	-
FIF50%	[L/s]	-	5.77				-
FIF75%	[L/s]	-	1.93	-	-	1-	-
FIV.5	[L]		1.06	**	100	**	-
FIV1	[L]	-	2.67	-	-	-	-
FIV3	[L]		-		-		
FIV.5/FIVC	[%]		33.73		-		-
FIV1/FIVC	[%]	**	85.25	447	44	**	-
FIV3/FIVC	[%]	**	-		77		-

Eth.Corr: 100

Temp: 0°0







9 7091118888

C.T.Scan-Digital X-Ray-Ultrasound-Echo Cardiography - E.C.G. - E.M.G. - EEG - NCV - OPG - Mammegraphy - BERA - Endoscopy · Pathology · OPD · Pharmacy · Urofolowmetry

Patients Name : AVISEKH KUMAR SINHA

Date of receipt

Age

: 33 years

Sex

: Male / Female-

Ref. by Dr

: Self

Date of report : 25/07/22

HAEMATOLOGY

				1.6		
Test d	escription		Result	Reference range		Unit
Haen	noglobin		15.0	Male: - 13.8 -17.2		gm/dl
				Female:-12.0 – 15.0		
DLO		5-0	100	4,000 – 11,000	190	cells/cu.mm
	i)	Neutrophil	45	40-80		%
	ii)	Lymphocyte	47	20-40		%
	iii)	Monocyte	03	2 - 10	90)	%
	iv)	Esoinophil	05.	1-6		%
	v)	Basophil	00	<1		%
ESR		12		0 – 20		mm/h
					3	

Blood Group " B "

Rh Typing POSITIVE

DR. Satabdi Mitra M.D. (PATH)

Counsultant Pathologist

LUCT OF JOU FORMS

GURU GOPIRAAM HOSPITAL

(A Unit of Guru Gopiraam Institute of Health Annexe Trust)

1	1 -2 8 inho 25 57-29
Name: - A Nysekh	Jeuman Sinha Date: - 25-7-22

Age: - B3 4

Sex: - M

Interpretation of ECG:-

- Rate: 75 min.
- · Rhythm: Regular
- · Axis:-
- PR interval:- 178 ms
- · QRS complex:- 107 MS
- QT interval:- 787 ms
- ST segment:- 105 MS
- · Twaves: Emmension in Lz

Impression:-

Repeat Ell.

DR. DEEPTANCSHU GANCUI (M.B.C.) M.B.C.S. M.D. Reg. Mc. Ser 35 (WBMC)

Patient Name:	MR AVISEKH KR SINHA	Age / Gender:	YR/M
RefdBy:		Date:	25/08/2022

X-RAY OF CHEST(PA VIEW)

FINDINGS:-

Prominent bilateral hilar shadows.

Both the costo-phrenic and cardio-phrenic angles are normal.

Trachea and the mediastenum are in the midline.

Cardiac size is within normal limits.

There is no evidence of pleural effusion or pneumothorax.

Bony thoracic cage appears normal.

IMPRESSION:-

Prominent bilateral hilar shadows.

Clinical and lab correlation is recommended for confirmation

Dr K. Nerella MD Radiologist Consultant Radiologist Reg Num-95228

Disclaimer: It is an online interpretation of medical imaging based on clinical data.modern machines/procedures have their own limitation. If there is any clinical discrepancy, this investigation may be repeated or reassessed by other tests. Patients identification in online reporting is not established, so in no way can this report be utilized for any medico legal purpose. Any error in typing should be corrected immediately.





(A Unit of Guru Gopiram Institute of Health Annexe Trust)

		19
Ref.	No.	49

Date: 25.07.22

Avisekh kumon sinha Age-337/M

BP-120/10 mmg 12 W - 73.6 Key T- D PR- Ja/min 3802 - 991, (RA)

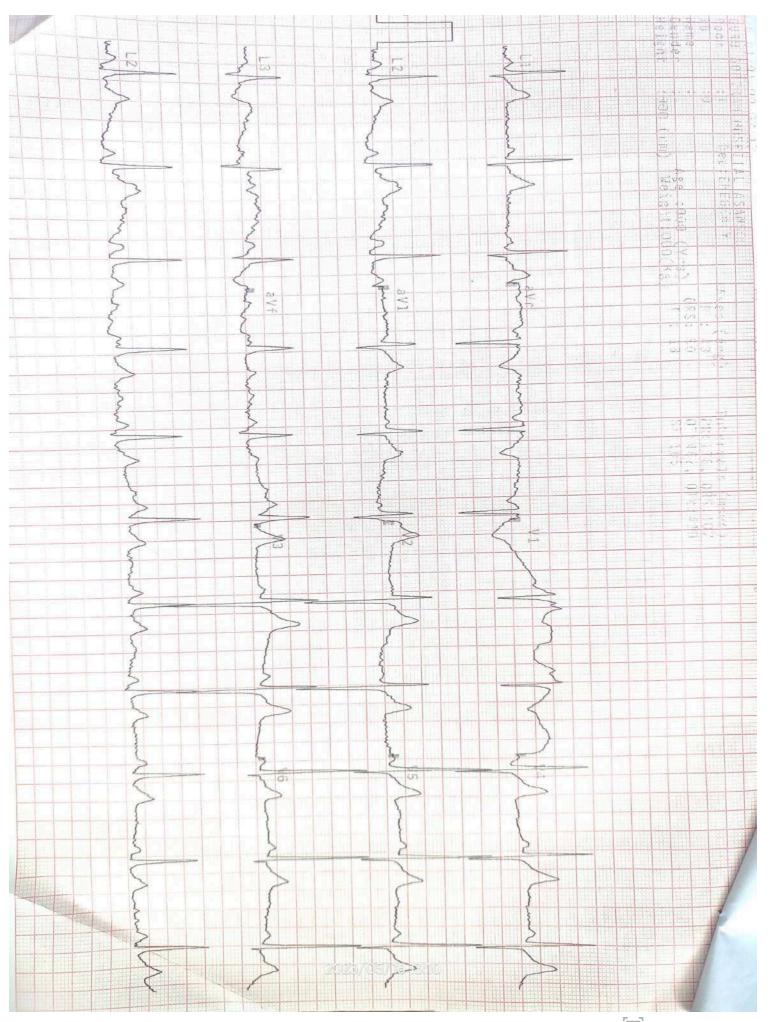
Ad ECh all leady CX P- DA View

Byle:

Regular chillent

UR. DEEPTANGSHU GANGUI M.B.B.S., M.D.

VA 6/6 , NG , NG ,





Shivakshi Rehabilitation Centre for Speech & Hearing

Ref. No....19

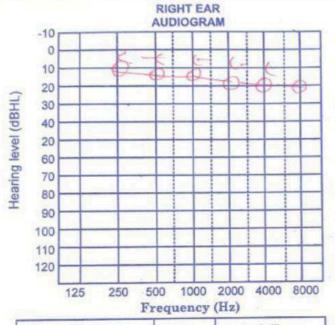
PURE TONE AUDIOMETRY

Date 79/22

NAME: AVICHER KUMAR SIAIHA

AGE/ SEX :

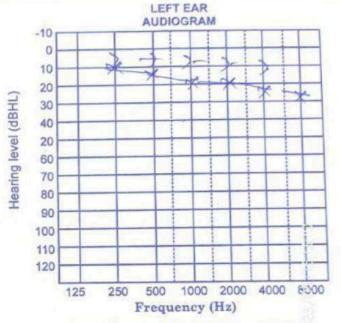
31/m



Right Ear	PTA	Left Ear
16.6: dBHL	- 1	18-3: dBHL
	II	

Audiometric responses : Fairly Consistent

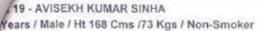
(+)	RINNE TEST	(+)
-	WEBER TEST	
4	250 Hz	\longrightarrow
-	500 Hz	
4—	1kHz	\longrightarrow
4-	2kHz	\longrightarrow
4—	4kHz	\longrightarrow

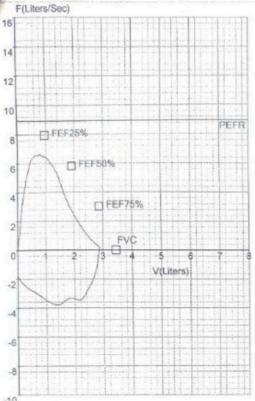


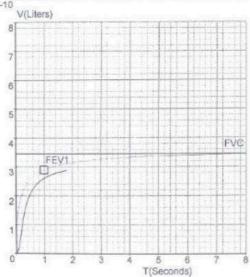
Rt Ear	SYMBOLS	Lt Ear
0	AC Unmasked	X
<	BC Unmasked	>
Δ	AC masked	
[_	BC masked]
1	No Response	1

PE VIEWWAR OGIST

Provisional Diagnosis: Blc-Heary Sensition,
without horal lind,
though







Pre Medication Report :
 Spirometery within Normal range as FVC% >= 80 And FEV1/FVC% > 70

Pre COPD Severity Report:

DR. BEEPS WICE NOTES AND .

M.B.B.S., M.D.

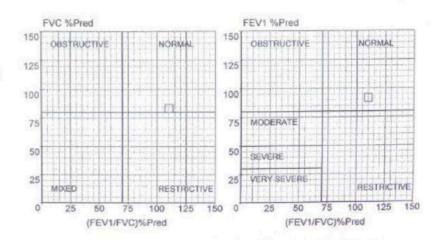
Reg. No. 66735 (WPMC)

FVC TEST	Pred Eqn : CLARI
Date: 25-07-2022 (T1)	Ref By : NONE

Parameter		Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L]	3.45	2.88	83			
FEV1	[L]	2.90	2.66	92			**
FEV.5	[L]		2.20	ales .	44	-	ere .
FEV3	[L]	3.34		**		-	
FEV6	[L]	-	-		-		
PEFR	[L/s]	8.95	6.64	74		**	**
FEF25-75	[L/s]	4.22	4.79	114	-	-	-
FEF75-85	[L/s]	Section	1.53	Care I	**	-	***
FEF.2-1.2	[L/s]	7.26	5.91	81			
FEF25%	[L/s]	7.95	7.47	94	**	-	-
FEF50%	[L/s]	5.78	5.65	98	-	-	-
FEF75%	[L/s]	2.98	1.93	65	No.	-	
FEV.5/FVC	[%]		76.35		-	-	-
FEV1/FVC	[%]	84.02	92.40	110		**	**
FEV3/FVC	[%]	97.00			-	-	-
FEV6/FVC	[%]	-			-		- 179
FEV1/FEV6	[%]			**		-	-
FET	[8]	-	1.64			-	(0)
ExplTime	[8]		0.18	**	-		- 6
LungAge	[Y]	33.00	36.00	109	**	-	-8
FIVC	[L]	44	3.13	-	Arm .	ala:	- 0
PIFR	[L/s]	-	3.82		-		_ (3)
FIF25%	[L/s]		7.47	Sec		-	-
FIF50%	[L/s]		5.77			**	-
FIF75%	[L/s]		1.93	-	-	-	-
FIV.5	[L]		1.06	**	ten.	***	-
FIV1	[L]	-	2.67	-		-	-
FIV3	[L]		-			-	
FIV.5/FIVC	[%]		33.73	-	1.	-	-
FIV1/FIVC	[%]	**	85.25	-	44	**	
			A CONTRACTOR OF THE PARTY.				

Eth.Corr: 100

Temp: 0°0







9 7091118888

C.T.Scan-Digital X-Ray-Ultrasound-Echo Cardiography - E.C.G. - E.M.G. - EEG - NCV - OPG - Mammegraphy - BERA - Endoscopy · Pathology · OPD · Pharmacy · Urofolowmetry

Patients Name : AVISEKH KUMAR SINHA

Date of receipt

Age

: 33 years

Sex

: Male / Female-

Ref. by Dr

: Self

Date of report : 25/07/22

HAEMATOLOGY

				1.6		
Test d	escription		Result	Reference range		Unit
Haen	noglobin		15.0	Male: - 13.8 -17.2		gm/dl
				Female:-12.0 – 15.0		
DLO		Sec	100	4,000 – 11,000	190	cells/cu.mm
	i)	Neutrophil	45	40-80		%
	ii)	Lymphocyte	47	20-40		%
	iii)	Monocyte	03	2 - 10	90)	%
	iv)	Esoinophil	05.	1-6		%
	v)	Basophil	00	<1		%
ESR		12		0 – 20		mm/h
					3	

Blood Group " B "

Rh Typing POSITIVE

DR. Satabdi Mitra M.D. (PATH)

Counsultant Pathologist

LUCT OF JOU FORMS

GURU GOPIRAAM HOSPITAL

(A Unit of Guru Gopiraam Institute of Health Annexe Trust)

1	1 -2 8 inho 25 57-29
Name: - A Nysekh	Jeuman Sinha Date: - 25-7-22

Age: - B3 4

Sex: - M

Interpretation of ECG:-

- Rate: 75 min.
- · Rhythm: Regular
- · Axis:-
- PR interval:- 178 ms
- · QRS complex:- 107 MS
- QT interval:- 787 ms
- ST segment:- 105 MS
- · Twaves: Emmension in Lz

Impression:-

Repeat Ell.

DR. DEEPTANCSHU GANCUI (M.B.C.) M.B.C.S. M.D. Reg. Mc. Ser 35 (WBMC)

Patient Name:	MR AVISEKH KR SINHA	Age / Gender:	YR/M
RefdBy:		Date:	25/08/2022

X-RAY OF CHEST(PA VIEW)

FINDINGS:-

Prominent bilateral hilar shadows.

Both the costo-phrenic and cardio-phrenic angles are normal.

Trachea and the mediastenum are in the midline.

Cardiac size is within normal limits.

There is no evidence of pleural effusion or pneumothorax.

Bony thoracic cage appears normal.

IMPRESSION:-

Prominent bilateral hilar shadows.

Clinical and lab correlation is recommended for confirmation

Dr K. Nerella MD Radiologist Consultant Radiologist Reg Num-95228

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Ref	No	39
1101.	IVO.	******************

Date: 25-07-22

Amor Kumar Bogdi Age- 254/M

BP -120/80 mm/Hg

W-86.6Kg .

5P02 - 9840 (RA)

PR - 73/min

T-N

Chul LAD

- CPR- PA vico

- BCG all heads

Eye?.

Regular Cheekup.

UR. DEEPT GENE CANGULY

M. E. S., M. D.

NA (6/8 1 N8

cv condy 1st plate an identity.

Dr. Kriti Srivastay Con identify

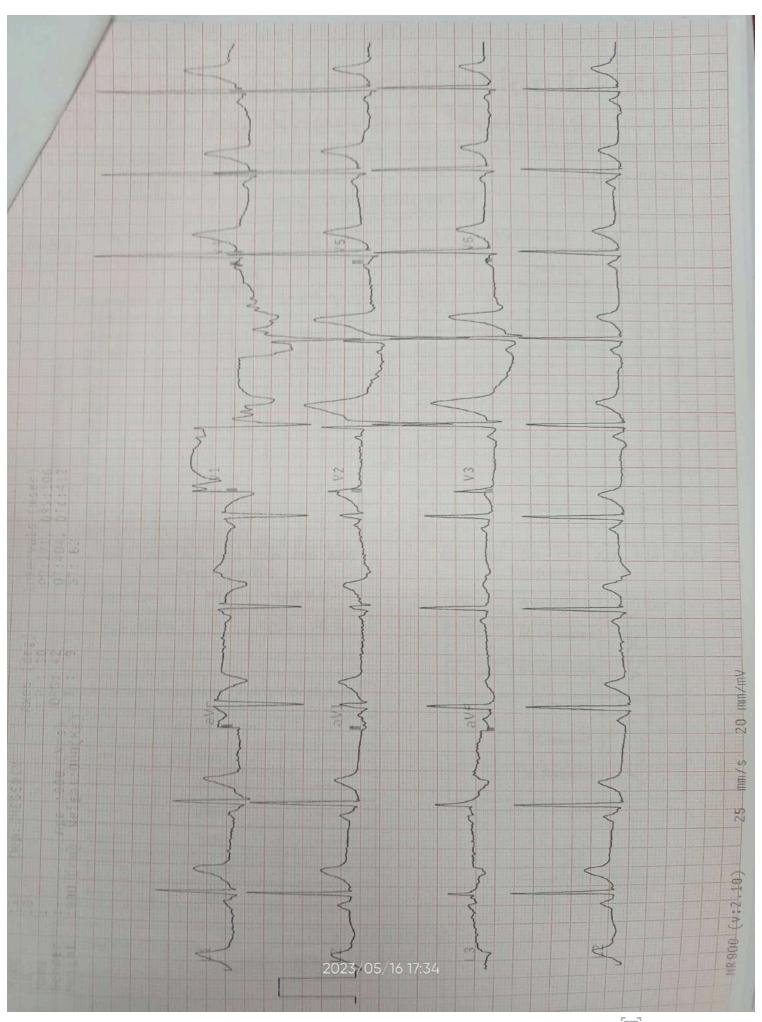
Dr. Kriti Srivastay

Dr. Holor of identify

Dr. No. - 101/10

2023/05/16 17:33

Biswakarma Nagar, Sitarampur - 713359, Dist. - Paschim Bardnan





Shivakshi Rehabilitation Centre for Speech & Hearing

Ref. No.....39.....

PURE TONE AUDIOMETRY

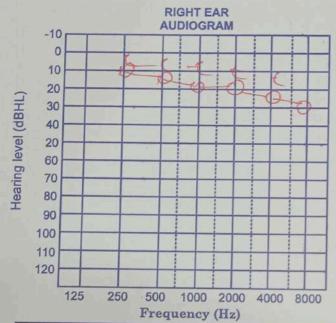
Date 25/0 2/22

NAME:

AMAR KR. BAUDI

AGE/ SEX :

251 m



Right Ear	PTA	Left Ear
18-3: dBHL	1	18-3 : dBHL
	H	

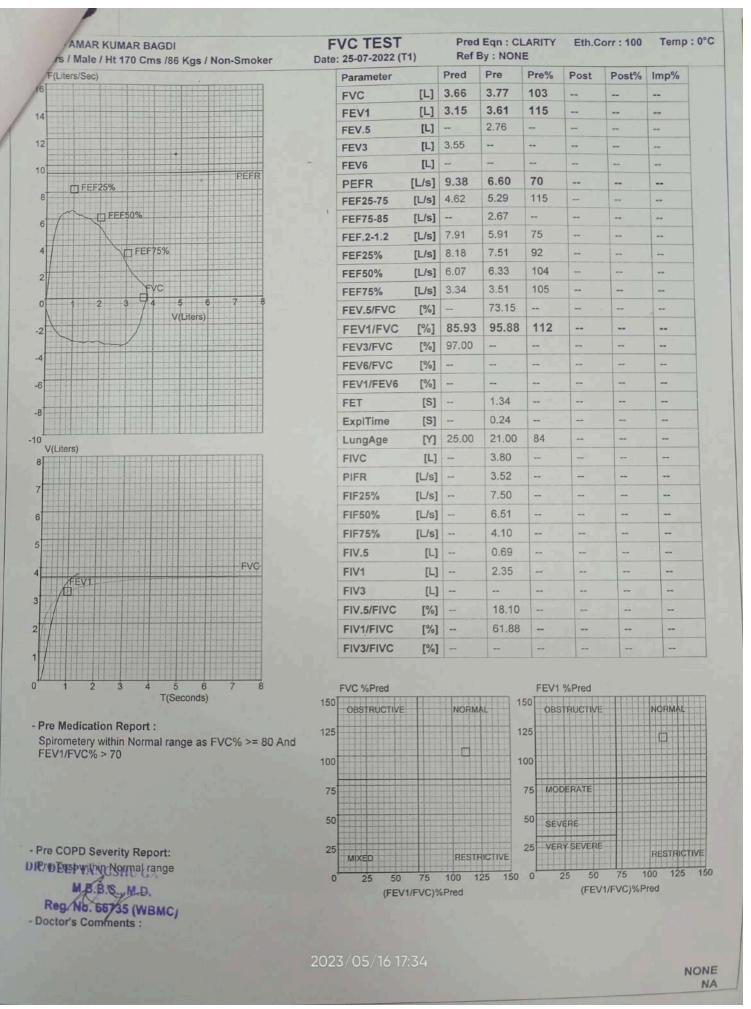
Audiometric responses : Fairly Consistent				
(+)	RINNE TEST	(+)		
←	WEBER TEST			
-	250 Hz			
←	500 Hz	-		
←	1kHz			
-	2kHz	-		
+	4kHz			

Provisional Diagnosis: 18/1-Herry Sensitivity
with harn Diagnosis: 18/1-Herry Sensitivity
with harn Diagnosis: 18/1-1/2023/05/16 17:34

	-10				_	Α	LE	IOG	RA	M				
	-10											T	T	
	10			11	b	0		_						
	20			K		7		5	_	2				
7	30											<-	7	2
dBI	40		000											
Hearing level (dBHL)	20													
<u> </u>	60													
ring	70				-	7.								
lea	80													
	90													
	100													
	110					-11								
	120													
		125	5	25		50 Fre		10		20 Hz	40	000	80	000

Rt Ear	SYMBOLS	Lt Ear
0	AC Unmasked	X
<	BC Unmasked	>
Δ	AC masked	
[BC masked]
1	No Response	1

ASST. AUDIOLOGIST





SITARAMPUR, ASANSOL

9 7091118888

• C.T.Scan• Digital X-Ray•Ultrasound•Echo Cardiography • E.C.G. • E.M.G. • EEG • NCV • OPG • Mammegraphy • BERA • Endoscopy

Pathology • OPD • Pharmacy • Urofolowmetry

Patients Name : AMAR KUMAR BAGOI

Age 31 years

Sex

: Male / Female

Ref. by Dr

: Self

Date of receipt

: 25107122

Date of report : 25/07/28



HAEMATOLOGY

Test des	cription		Result	Reference range	<u>Unit</u>
Haemo	globin		15.6	Male: - 13.8 -17.2	gm/dl
				Female:-12.0 – 15.0	
TLC			9,000	4,000 – 11,000	cells/cu.mm
DLC					
	i)	Neutrophil	48	40-80	%
	ii)	Lymphocyte	38	20-40	%
	iii)	Monocyte	02	2-10	%
	iv)	Esoinophil	12	1-6	%
	v)	Basophil	00	<1	%
ESR				0-20	mm/h

Blood Group

POSTTIVE Rh Typing

DR. Satabdi Mitra M.D. (PATH)

Counsultant Pathologist

GURU GOPIRAAM HOSPITAL

(A Unit of Guru Gopiraam Institute of Health Annexe Trust)

Name: - Amar Kunor Bagdi

Date: -

Age: - 254

Sex: -

Interpretation of ECG:-

· Rate: - Fsmin

• Rhythm:- Regular • Axis:- (N)

• PR interval: - 17/ ms

• QRS complex:- 100MS

• QT interval:- 409 mS

• ST segment:- 68 ms

· Twaves: - Inversion in La

Impression:-

Report Ela.

N.B.B.S. M.D. Reg. No. 66/35 (WBM.)

Disclaimer: In no way this report can be utilized for any medico legal purpose. If there is any clinical discrepancy, this investigation may be repeated or reassessed.

224 C	72527	CIA
Ref.	No.	70

Date: 25.07.22

Ajay Kuman Singh Age-454/M

WT→69.9Kg SP0279790 PR→77/M BP→110/80 mmathe

Ano, J', cy. U, 620 Uhus? > nems

Uv- Acidaho

12

1) Teb. Ranta (150)
1>0000 pe som

3 Tohn. Adr & gold 1500pc x200

- COR PR view
- ECG - Gli led

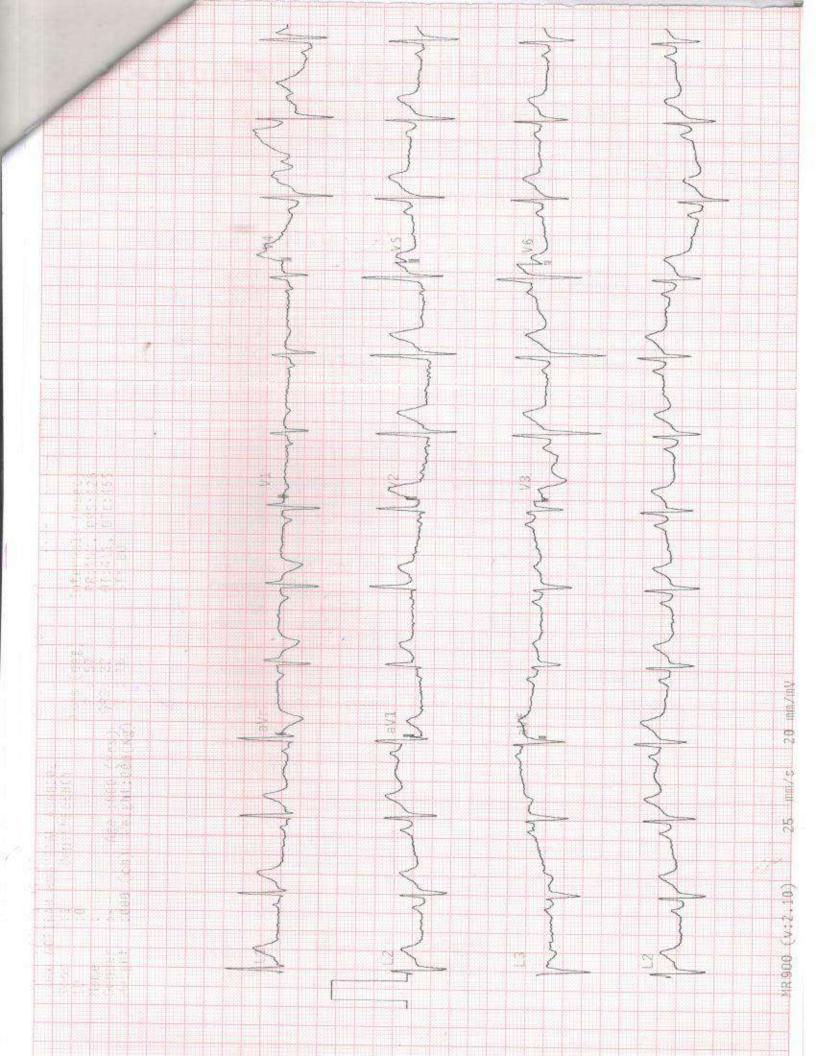
DR. DREPTANGSHU GANGULY M. R. S. S. . M.D. Res No. 60735 (WSWC) · clo-Dov- Pop.

MT (6/24P.

Refer to Hospital

Pegd. No. - 131491210019

Him.



SRSH

NAME:

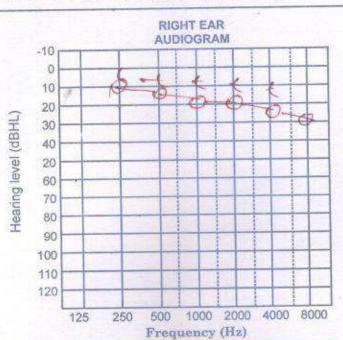
Shivakshi Rehabilitation Centre for Speech & Hearing

Ref. No... 70

PURE TONE AUDIOMETRY

Date 28/03/22

AGE/SEX: 45m



AJAY KR. SINGH

Right Ear	PTA	Left Ear
18-3 : dBHL	F	18-3: dBHL
	11	

Audiometric responses : Fairly Consistent

(+)	RINNE TEST	(+)
←	WEBER TEST	
*	250 Hz	
4	500 Hz	
4	1kHz	\longrightarrow
4	2kHz	
4	4kHz	

0			DIOG			I		1
10	3	- 7	1		7	+		+
20			K	4	M	-	2-	4
30						1		1
40				_1				
20								
70					-	+		
80			-		+	+		
90								
00	1					8		
10								
20	n eni						1000	80

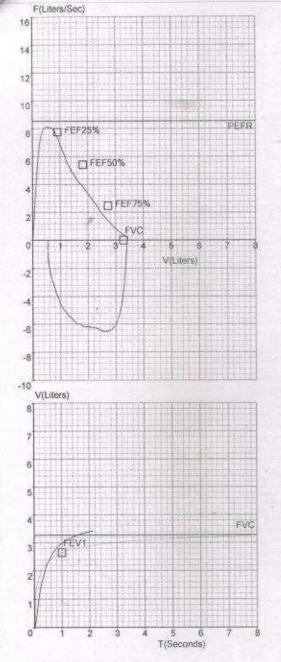
(Rt) Ear	SYMBOLS	Lt) Ear
0	AC Unmasked	X
<	BC Unmasked	>
\wedge	AC masked	
Ī	BC masked]
1	No Response	×

ASST AUDIO BASTST

Provisional Diagnosis: Blc - Hearing Lind,

Consell,

70 - AJAY KUMAR SINGH 5 Years / Male / Ht 168 Cms /69 Kgs / Non-Smoker



 Pre Medication Report : Spirometery within Normal range as FVC% >= 80 And FEV1/FVC% > 70

Pre COPD Severity Report:

BB-198-RATA NGSHAL AngeNGUL)

M.B.B.S., M.D.

Reg No. 66735 (WBMC)

- Doctor's Comments :

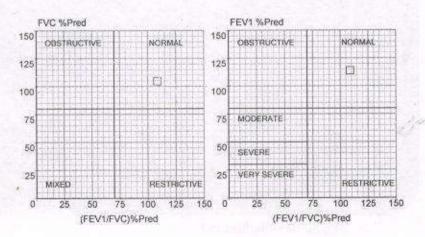
FVC TEST Date: 02-08-2022 (T1) Pred Eqn : CLARITY

Eth.Corr: 100

Temp: 0°C

Ref By : NONE

Parameter		Prod	Pre	Pre%	Post	Post%	Imp%
FVC	[L]	3.38	3.43	105	-		
PEV1	[L]	2.65	3.01	114	-	-	
7.EV.5	[-]	4	2.40			440	-
FEV3	[1]	3.13		**	100	5754	-
MEV6	[1-]	-	248	34	**	990	-
PEFR	[L/s]	8.53	8.11	95		(mm)	
FEF25-75	[L/s]	3.68	4.34	118		-	**.
FEF75-85	[L/s]	-	1.42	-		-	
FEF.2-1.2	[L/s]	6.45	7.13	111	-	~	
FEF25%	[L/s]	7.71.	8.45	110	***	4	-
FEF50%	[L/s]	5.42	4.53	84	-	ere :	**
FEF75%	[L/s]	2.49	1.78	72	-	46	
FEV.5/FVC	[%]		69.92	He :	*	**	
FEV1/FVC	[%]	80.64	87.72	109	1/22		-
FEV3/FVC	[%]	97,00		100	-	-	
FEV6/FVC	[%]	#	en:	**	(44)	-	**
FEV1/FEV6	[%]	7 4	-			-	-
FET	[S]	4	2.01	990	441		
ExplTime	[S]	-	0.09	-		**	
LungAge	[Y]	45.00	39.00	87	44	-	
FIVC	[L]	55	2.88	35			22
PIFR	[L/s]	90.	6.52	**	-		
FIF25%	[L/s]		9.13	4	4	-	20
F1F50%	[L/s]	HH	5.85	90	**	1990	-
FIF75%	[L/s]		3.69	45	**	-	-
FIV.5	[L]	**	2.46	(ma)	**		-
FIV1	[L]	**	40	274 ·	42	-	24
FIV3	[L]	-	-	100	**	-	-
FIV.5/FIVC	[%]	-	85.24	(44)	24	+	**
FIV1/FIVC	[%]	-	-	-	-	-	-
FIV3/FIVC	[%]	in in	-		14	24	**





SITARAMPUR, ASANSOL

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• C.T.Scan•Digital X-Ray•Ultrasound•Echo Cardiography • E.C.G. • E.M.G. • EEG • NCV • OPG • Mammegraphy • BERA • Endoscopy

· Pathology · OPD · Pharmacy · Urofolowmetry

Date of receipt : 25 0 1 22 kumar singh Patients Name : Agay

: 45 years Age

: Male / Female-Sex

: Self Ref. by Dr

: 25/07/22 Date of report



HAEMATOLOGY

13.7		Male: - 13.8 -17.2		gm/dl
				0/9/
		Female:-12.0 – 15.0	70	
6100	£100 4,000-11,00		o cell	
Neutrophil	57	40-80		%
Lymphocyte	37	20-40	W	%
Monocyte	02	2 - 10		%
Esoinophil	04	1-6		%
Basophil	00	<1		%
30	10	0-20	199	mm/h
d Group " A	w			
	Neutrophil Lymphocyte Monocyte Esoinophil Basophil	Neutrophil 37 Lymphocyte 37 Monocyte 62 Esoinophil 67 Basophil 670	Neutrophil 3	Neutrophil 37 40-80 Lymphocyte 37 20-40 Monocyte 62 2-10 Esoinophil 64 1-6 Basophil 670 <1

Positive Rh Typing

DR. Satabdi Mitra M.D. (PATH)

Counsultant Pathologist

GURU GOPIRAAM HOSPITAL

(A Unit of Guru Gopiraam Institute of Health Annexe Trust)

Name: - Asay Kr. Singh

Date: -

Age: -

Sex: - M

Interpretation of ECG:-

· Rate: - 75/min

· Rhythm: Regular.

· Axis:- 1 LAD

· PR interval:- 152 mg

• QRS complex:- 126 mg

· QT interval:- 44 mg

· ST segment:- 80 mg

· Twaves: Inversion in Ly

Impression:- Repeat &Ch.

DR. DEEPTANGSATE GANGULY
M.B.E.S. M.D.
REG. No. 66725 (WEMC)

GURU GOPIRAM HOSPITAL

(A Unit of Guru Gopiram Institute of Health Annexe Trust)

Ref. No. 07

Date: 26.07.22

Amal Bawri Age - 384/M

Wt-548-9KD SP027950/0(RA) PR7 67/M BP-713/90 mys 4

And 20 chs of 090

E (a. all heads

Chuly MAD

(3) Tab. Mulcol (500) OF & 000 %!

DR. DEEPTANGSHU GANGULY

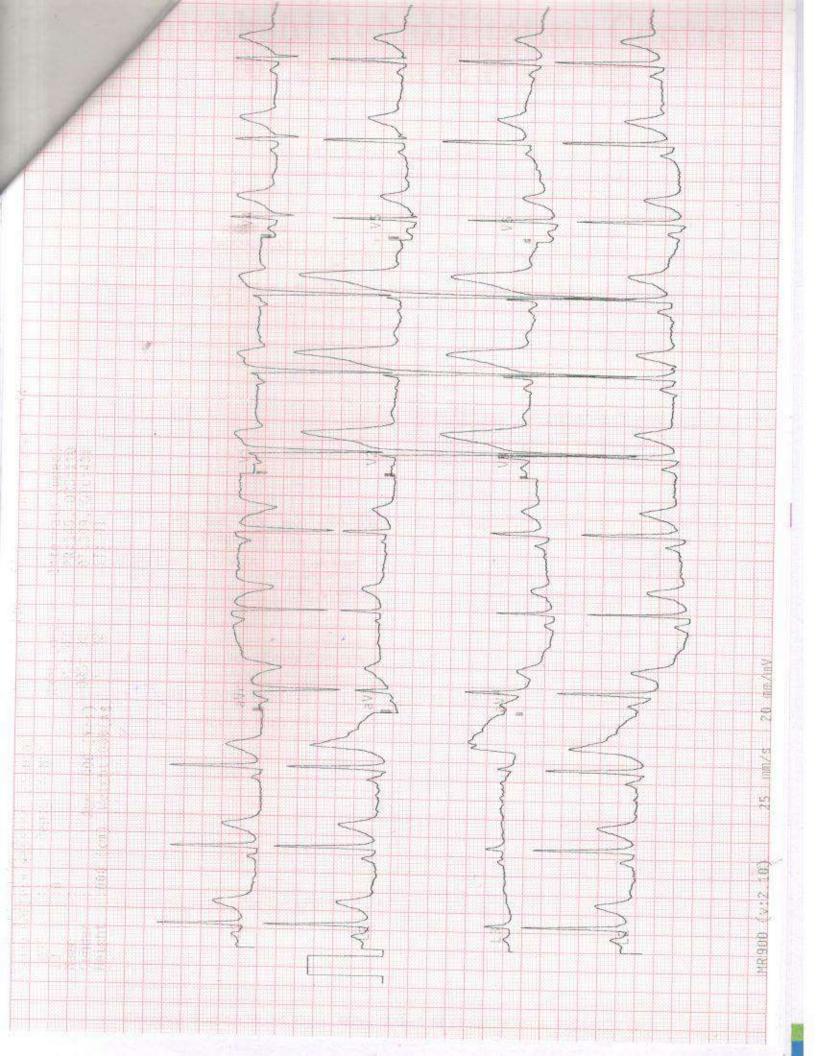
Dr. Kritt Srivastan

flom 0 (Por) 6/4

Neonald > +1.0008, (Port) No.

Biswakarma Nagar, Sitarampur - 713359, Dist. - Paschim Bardhanda DEEPTANGSHU GANGUL Mob. No.: 7091118888, E-mail: admin@ggrhospital.com

M.B.B.S., M.D. Reg (48. 66735 (WBMC)



nivakshi Rehabilitation Centre for Speech & Hearing

Ref. No..... O.)

PURE TONE AUDIOMETRY

Date... 14 122

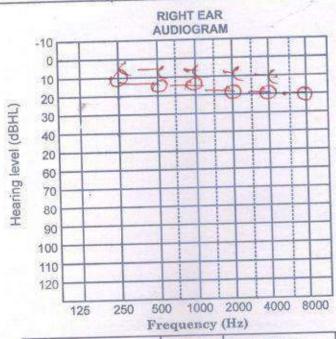
NAME:

AMAL

BAURL

AGE/ SEX :

381m



Right Ear	PTA	Left Ear
16-6: dBHL	1	18-3: dBHL
113520/	11 -	

(+)	RINNE TEST	(+)
-	WEBER TEST	-
4	250 Hz	-
4	500 Hz	
4	1kHz	30
*	2kHz	
+	4kHz	-

-10			AL	EF	T EA	AR	1	-			1
0 - 10 - 20 -		*	7		À.		7		7		
30 40											
20 60											
70											
90										1	
10 20											
-	125	250		00 equ	10 enc	00 y (20 (Hz		4	000	8

(Rt) Ear	SYMBOLS	(Lt) Ear
0	AC Unmasked	X
<	BC Unmasked	>
\wedge	AC masked	
Ī	BC masked]
1	No Response	1

Provisional Diagnosis: MC-1+comp Sensitivity,

ale / Ht 168 Cms /75 Kgs / Non-Smoker 12 10 PEFR DFEF25% FEF50% ☐ FEF75% V(Liters) -10 V(Liters) FVC T(Seconds) - Pre Medication Report :

- Pre Medication Report : Spirometery within Normal range as FVC% >= 80 And FEV1/FVC% > 70

Pre COPD Severity Report:
Pre Test within Normal range
DR. DEEPTA SSAN GANGULY

M.B.S.S. M.D.

Poctoria Communication (M.B.M.C.)

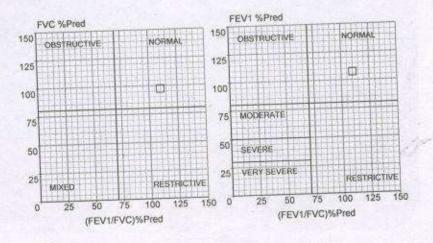
FVC TEST Date: 02-08-2022 (T1) Pred Eqn : CLARITY

Eth.Corr: 100

Temp: 0°C

Ref By : NONE

Parameter	1	Pred	Pre	Pre%	Post	Post%	Imp%	
FVC	[L]	3.35	3.26	97	**	-	**	
FEV1	-	2.75	2.95	107		**		
FEV.5	VISUS -	+0	2.38	***	7	-	9+	1
FEV3		3.25	au.		***	-	7	l
FEV6	1975					***	**	
PEFR	[L/s]	8.71	8.53	98	441	HH		1
FEF25-75	[L/s]	3.90	4.59	118	120		-	1
FEF75-85	[L/s]	-	1.58	**	***			-
FEF.2-1.2	[L/s]	6.79	7.30	108		-		4
FEF25%	[L/s]	7.81	8.72	112		75		-
FEF50%	[L/s]	5.57	4.89	88	-	P#1	***	
FEF75%	[L/s]	2.69	2.00	74		-		e T
FEV.5/FVC	[%]		73.08	975	**	***	77	1
FEV1/FVC	[%]	82.09	90.44	110	-7			1
FEV3/FVC	[%]	97.00	44	-	**	-	77	
FEV6/FVC	[%]	(40)	***	-	-		**	
FEV1/FEV6	[%]	-		-	A+	-	770	ė
FET	[S]	+#1	1.67	-55	227	-		
ExplTime	[S]	2	0.07		***	***	77	
LungAge	[Y]	40.00	37.00	93	4.			
FIVC	[L]		2.69	-		57	-	
PIFR	[L/s]		6.63	-	-	MH.		Į
FIF25%	[L/s		9.53	494		-	-	
FIF50%	[L/s]	6.51		44	***	-	_
FIF75%	[L/s	1	4.09	77	-	122		
FIV.5	[L	1	2,46	440)	-		-	
FIV1	[L]		1990	-	-	-	į
FIV3	[L	1	-			-	***	
FIV.5/FIVC	[%]	91.44				-	
FIV1/FIVC	[%	ol	12	No.	58H		7	
FIV3/FIVC	[%	6]	-	-	-	-	144	





SITARAMPUR, ASANSOL

3 7091118888

• C.T.Scan•Digital X-Ray•Ultrasound•Echo Cardiography • E.C.G. • E.M.G. • EEG • NCV • OPG • Mammegraphy • BERA • Endoscopy Pathology • OPD • Pharmacy • Urofolowmetry

Patients Name : Amal

Age : 3% years

Sex : Male / Female

Ref. by Dr : Self Date of receipt

Date of report

: 26/07/22



HAEMATOLOGY

Bours

<u>lest descr</u>	iption	Result	Reference range		Unit
Haemogl	obin	14.0	Male: - 13.8 -17.2	-19	gm/dl
			Female:-12.0 - 15.0		
TLC	\$79 (co	4,000 – 11,000		cells/cu.mm
ŋ) Neutrophil	44	40-80		%
II) Lymphocyte	48	20-40		%
18	i) Monocyte	03	2-10		%
iv) Esoinophil	os-	1-6		%
v)	Basophil	00	<1	98	%
ESR	19		0-20		mm/h.

Blood Group

Paritine Rh Typing

DR. Satabdi Mitra M.D. (PATH)

Counsultant Pathologist



GURU GOPIRAAM HOSPITAL

(A Unit of Guru Gopiraam Institute of Health Annexe Trust)

Name: - Namal Bawon

Date: - 26-7-22

Age: - 384

Sex: - M

Interpretation of ECG:-

· Rate: 75 hain

· Rhythm: - Regular

• Axis:-

• PR interval:- 195 M8

· QRS complex:- 110MS

· QT interval:-394 mg

· ST segment: 91 Mb

Twaves:-

Impression:-

TAM T.

DR. DEEPTANGSHU GANGULV M.B. R.S. QL.D. Reg. No. 166735 (WBMC)



		00
Dof	Ma	83
MEI.	IVO.	0.9

Date: 25.07.22

Abinash pansad Age-244/M

WT-764.3KP SPOIT 97% PR-7 687M BR-7 120/80 mmg Dy

DA.

Ani, 50, cg: 10, 02

I attend type opg

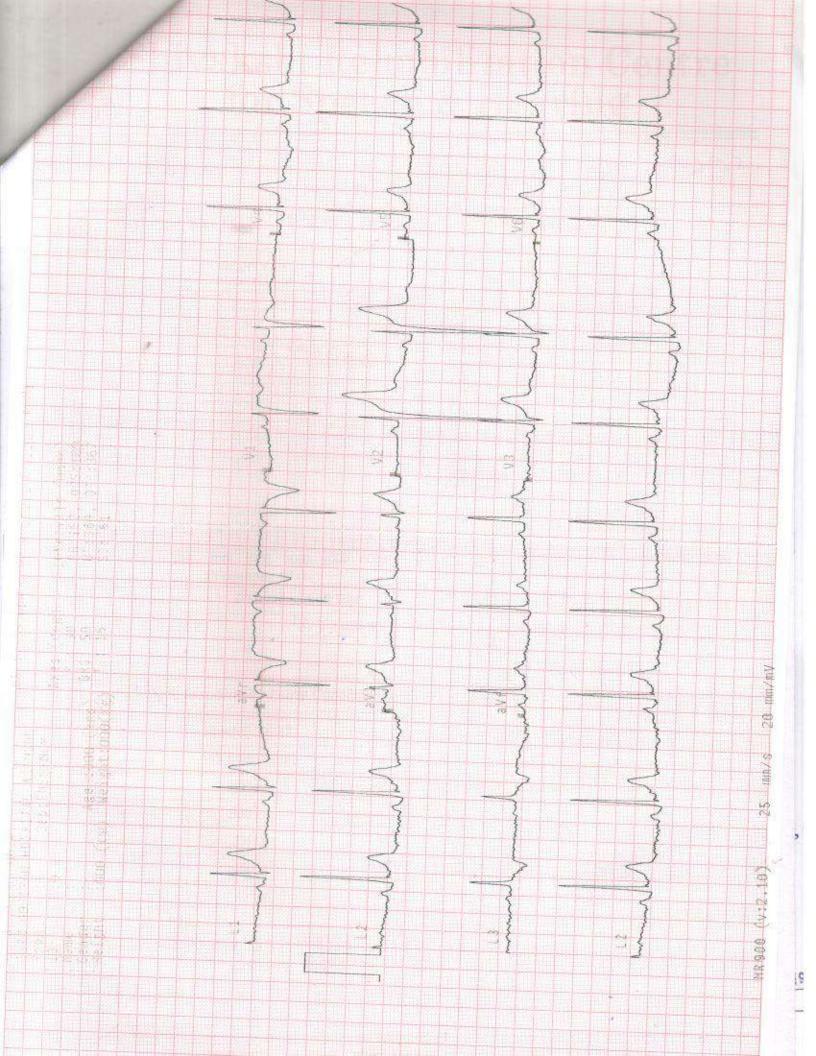
Mo- Bonning Senting

M.B.B.S., M.D. Reg. No. 66735 (WBMC)

Regular chellup.

ev < normal.

wakarma Nagar Citarana 712350 IV. D. L. D. H.

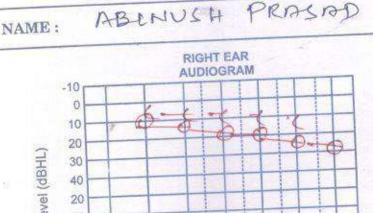


Shivakshi Rehabilitation Centre for Speech & Hearing

Ref. No....83

PURE TONE AUDIOMETRY

Date 25/03/22



Hearing level (dBHL) 60 70 90 100 110 120 2000 4000 8000 250 125 Frequency (Hz)

Right Ear	PTA	Left Ear
18-3 : dBHL	1.	18-3 ; dBHL
	- 11	The second

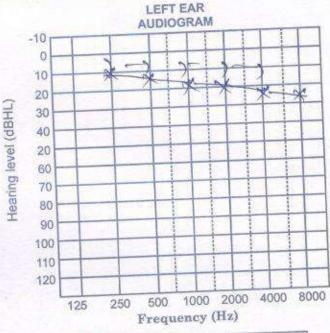
Audiometric responses : Fairly Consistent

(+)	RINNE TEST	(+)
-	WEBER TEST	
4-	250 Hz	
4	500 Hz	-
4	1kHz	
4	2kHz	
4	4kHz	>

A11 m 1/2

AGE/ SEX:

241m



Rt) Ear	SYMBOLS	Lt) Ear
0	AC Unmasked	X
<	BC Unmasked	>
Λ	AC masked	
	BC masked]
1	No Response	- >

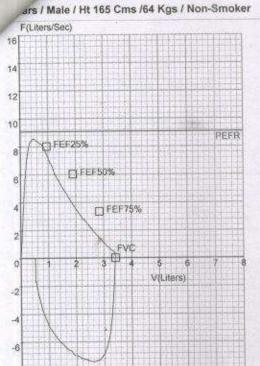
Provisional Diagnosis: BK-Hearap Sensitivity Wind, conello.

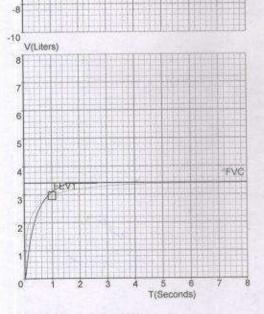
ABINASH PRASAD

FVC TEST Date: 02-08-2022 (T1) Pred Eqn: CLARITY Ref By : NONE

Eth.Corr: 100

Temp: 0°C

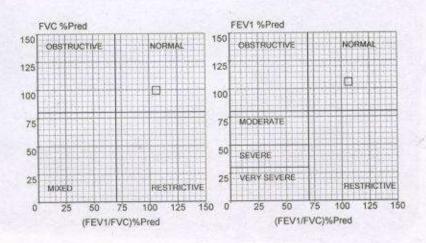




- Pre Medication Report : Spirometery within Normal range as FVC% >= 80 And FEV1/FVC% > 70

- Pre COPD Severity Report: DR. DEEPT CSTALTEGENGLEY M.B.B.S., M.D. - Doctors Comments :

Parameter		Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L]	3.42	3.40	99	***	100	
FEV1	[L]	2.97	3.13	106	-	111	
FEV.5	[L]	HA.	2.46	er.	-	(en	
FEV3	[L]	3.32	-2		44	-	
FEV6	[L]	~	**	***	-	-	77
PEFR	[L/s]	9.06	8.55	94			
FEF25-75	[L/s]	4.57	4.69	103	**	772	-
FEF75-85	[L/s]	-	1.79	1445	44		
FEF.2-1.2	[L/s]	7.72	7.47	97	-	-	
FEF25%	[L/s]	8.03	8.85	110	-	-	-
FEF50%	[L/s]	5.97	5.05	85	22	-	-
FEF75%	[L/s]	3.31	2.22	67	-		**
FEV.5/FVC	[%]	200	72.51	1015	2		**
FEV1/FVC	[%]	86.62	92.22	106	***		-
FEV3/FVC	[%]	97.00		-	34		-
FEV6/FVC	[%]	-	**		**		-
FEV1/FEV6	[%]	44		***	24	144	:++
FET	[S]	3773	2.63		77		-
ExplTime	[8]		0.07		ien.		-
LungAge	[Y]	24.00	23.00	96	**	-	
FIVC	[L]	44	2.91	ina .	(HC)		46
PIFR	[L/s]		7.44	real .	4	de.	124
FIF25%	[L/s]		9.31	***	-	min.	cees;
FIF50%	[L/s]		6.40		**	-	
FIF75%	[L/s]	-	3.94	***	195	-	**
FIV.5	[L]	200	2.76	-	144	**	
FIV1	[L]			**	(**)	77	
FIV3	[L]	www.	44		-	444	
FIV.5/FIVC	[%]		94.95			77	-
FIV1/FIVC	[%]	100		**:		-	-
FIV3/FIVC	[%]		-	+	-	-	-





SITARAMPUR, ASANSOL

• C.T.Scan•Digital X-Ray•Ultrasound•Echo Cardiography • E.C.G. • E.M.G. • EEG • NCV • OPG • Mammegraphy • BERA • Endoscopy

Patients Name: Apinash Prasa Date of receipt Age : 24 years Sex Date of report : Male / Female

Ref. by Dr : Self



HAEMATOLOGY

Total Control of the	HA	EMATOLOGY	
Test description	Result		
Haemoglobin	The second second	Reference range	Unit
	H.8.	Male: - 13.8 -17.2	gm/dl
TLC		Female:-12.0 – 15.0	
DLC	00	4,000 – 11,000	cells/cu.mm
i) Neutrophil	Seg		
ii) Lymphocyte	34	40-80	%
iii) Monocyte	02	20-40	%
iv) Esoinophil	05	2-10	%
v) Basophil	00	<1	%
ESR 10			%
10		0 - 20	mm/h
pl	1		

Blood Group " A "

Positive Rh Typing

DR. Satabdi Mitra M.D. (PATH)

Counsultant Pathologist

GURU GOPIRAAM HOSPITAL

(A Unit of Guru Gopiraam Institute of Health Annexe Trust)

Name: - Abenash Pranad

Age: - HY

Interpretation of ECG:-

· Rate: - 60 him

· Rhythm: - Regular

· Axis:- MAD

• PR interval:- 15 2ms.

• QRS complex:- 100 ms

• QT interval:- 363 ms

• ST segment:- 61 ms

• Twaves:- 9 mension into

Impression:-

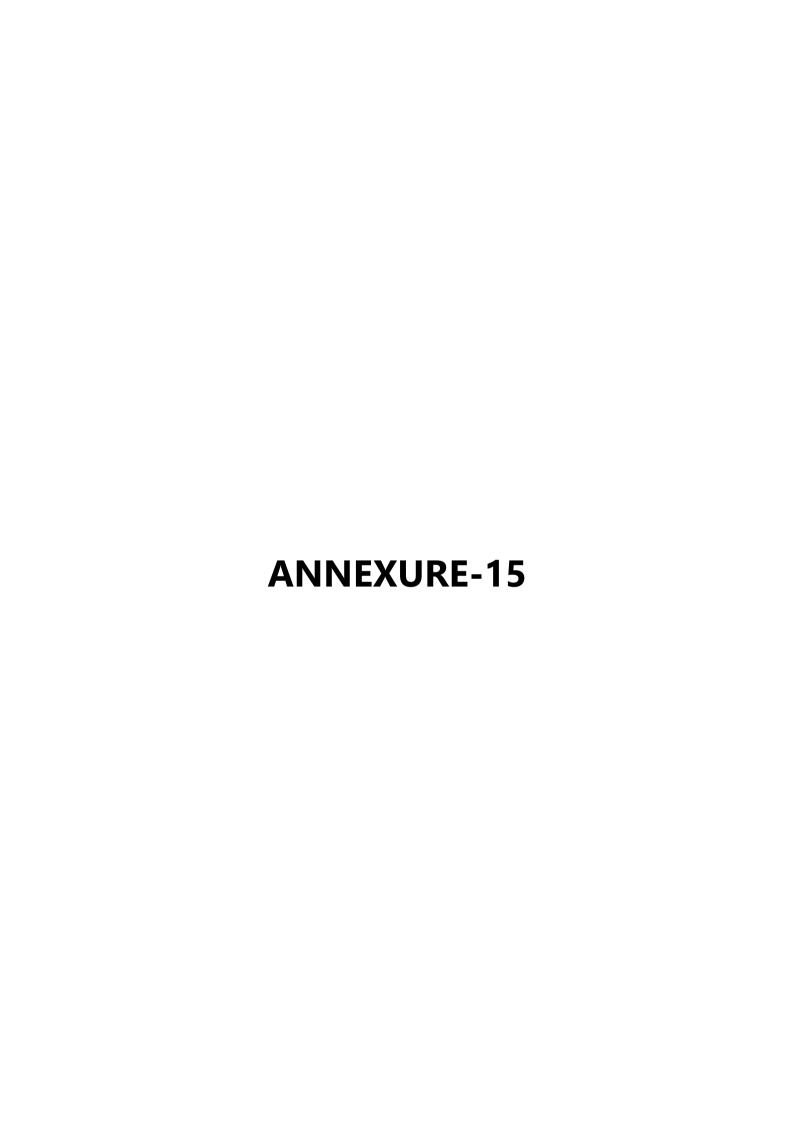
Repent ECh.

Date: -15-7-22

Sex: - M

DR. DEEPTAYGSHU GANGULY ME/B/S., M.D. Reg. No. 56735 (WBMC)

Disclaimer: In no way this report can be utilized for any medico legal purpose. If there is any clinical discrepancy, this investigation may be repeated or reassessed.



ENVIRONMENTAL DATA DISPLAY BOARD

