

SHAKAMBHARI ISPAT & POWER LTD.

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

Ref: -SIPL/SMC/MoEFCC/OCT-2021 to MARCH-2022

Date: 30.05.2022

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 (Oct. 2021 to March 2022) Compliance to Environmental Clearance conditions vide MoEFCCF. No. J-11011/201/2013-IA II (I) dated 21.12.2016 and EC amendment dated 29.04.2020 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.-2021 to March-2022) 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 perusal.

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

Encl: as above

Authorized

Copy to:

The Sr. Environmental Engineer, West Bengal Pollution Control Board, Asansol Regional Office.

Kalyanpur Satellite Township Project, Dr. B.C. Roy Road, PO-Dakshin Dhadka, Asansol- 713302, Dist-Paschim Bardhaman (WB)



SIX MONTHLY COMPLIANCE REPORT October, 2021 – March, 2022



PREPARED BY:

M/S SHAKAMBHARI ISPAT & POWER LIMITED VILL. -MADANDIH, P.O. – BARTORIA, P.S-NETURIA, DIST. – PURULIA, PIN-723121

SHAKAMBHARI ISPAT & POWER LIMITED

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE

MoEF&CC. No.: J-11011/201/2013-IA II (I) Dated: 21.12.2016 and EC amendment dated 29.04.2020

COMPLIANCE PERIOD:

OCTOBER-2021 TO MARCH-2022

PROJECT LOCATION:

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



Name of the Project		Shakambhari Ispat & Power Limited 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, 2021–March, 2022

SI. No.	CONDITIONS	COMPLIANCE STATUS
	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) have been installed with all major stacks and connected to CPCB portal to monitor the air emissions. In the line of installation OCEMS has also been installed with DRI-1x600 TPD and is under process of connectivity with CPCB server. Latest stack monitoring report is attached as Annexure-1.
II.	No dumping is permitted in the abandoned coal mines 2B 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. However, fly ash / bed ash are being handled properly.
iii.	In-plant control measures like bag filters, dedusting 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 Plantt (CHP), along with Kiln axis and all other strategic locations. 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
iv.	The ETP for Mini Blast Furnace effluent should be designed to meet Cyanide standard as notified by the MoEF&CC.	

Six Monthly Compliance Report (October, 2021-March, 2022)

SI. No.	CONDITIONS	COMPLIANCE STATUS				
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 and 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.	water. We have rain water harvesting pond to harves the rain water and reduce the water consumption. Ai cooled condensers and closed-circuit cooling system have been provided with CFBC boiler to reduce water consumption. Cooling water in DRI, SMS and Rolling Mil are recycled back to the system. Roiling mill effluent being treated in ETP and recycled back to the process				
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 disposed off in environment-friendly manner.				
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.	SIPL has completed concreting of approx. more than 96% internal roads where heavy vehicle movements are exercised, and concreting of balance roads are under progress. The company has completed the paver blocking of around 95% 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. Some photographs are attached as Annexure . We have already purchased automated road sweeping				

SI. No.	CONDITIONS	COMPLIANCE STATUS
		machine and the same is operational. Parking area for the trucks within the unit has been provided. Annexure-4. Progressive measures have being taken to develop avenue plantation and green cover using indigenous species i. e. Radhachura, Neem, Arjun, Spthodia, Bat, Peepal, Bakul, Conocarpus, Kadam, Rain tree, shishu, Sonajhuri, Siris, Pitanjiba, Ficus, Krishnachura etc. along the plant periphery as well as inside the plant. Some pictures are attached as Annexure-5
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.	Utmost priority is given to reduce the air pollution within the plant. Suitable control measures have been undertaken to keep Gaseous emission levels including secondary fugitive emissions within the latest permissible limits. Last work zone (Fugitive Emission) monitoring report is enclosed as Annexure-2
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 have been adapted and no effluent discharged outside the factory premises. Latest monitoring report is enclosed as Annexure-7
xv.	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic 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.	Proper handling, storage, utilization and disposal of solid waste being done. Analysis of toxic metal content in the solid waste being 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.	The Dolochar generated from DRI section is being strictly utilized for power generation at our Captive Power Plant (CPP). Fly ash is being utilized in fly ash brick manufacturing. Accordingly, company has made agreement for the same. We have also got permission from Eastern Coalfields Limited (ECL) for filling the illegally mined place at Bicched Bandh area near Narsamunda Colliery

SI. No.	CONDITIONS	COMPLIANCE STATUS
		of Sodepur area. Copy of the agreement is enclosed as Annexure-9A & 9B Induction Furnace slag, silico manganese slag and bottom ash are being used for land filling and road construction/maintenance work.
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. We have 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 33% target of green belt plantations. With extensive plantation drive by using indigenous species i. e. Radhachura, Neem, Arjun, Spthodia, Bat, Peepal, Bakul, Conocarpus, Kadam, Rain tree, shishu, Sonajhuri, Siris, Pitanjiba, Ficus, Krishnachura etc. along the plant periphery as well as inside the plant according to recommendation from DFO and species of local growing species. Approx. 35000 plants for greenbelt/green cover have been planted so far. Further we are committed to develop more greenery by identifying more scope of plantation and green cover development 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 during Public Hearing/public consultation meeting shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	It is being complied. We are in the process of regular compliance of commitments made during public hearing and an additional as per demand of the local people. 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 asper requirement. 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. Monetary support to the surrounding villagers for varies cultural program etc.

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						
		We have dedicated HR & IR personnel to look after the						
xxi.	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.	welfare activities and redressing of issues if any. The amount earmarked is exclusively used for implementation of Enterprise Social Commitment. Our expenditures incurred towards facilitating study materials to the nearby school students, infrastructure development in the schools, blanket distribution to poor villagers in winter season, common ladies toilets has been made near Sri Biranchidham Temple for social causes, etc.						
xxii.	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 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.	SIPL have undertaken various social activities in nearby villages in consultation with local communities for their benefit of health, education, cultural activities, skill development and employment to local people etc. Our HR & IR personnel to look after the welfare activities and redressing of issues if any. The SIPL has varieties of CSR activities with its NGO Shree Shyam Seva Sansthan. As a part of CSR the Sansthan has distributed nutrition kits containing rice, dal and edible oils to less privileged people. Some photographs of CSR activity are attached as Annexure-10.						
xxiii.	The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall interalia 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)	Complied. SIPL have implemented standard operating procedure to look into any infringement/deviation/violation of environmental or forest norms/conditions. CMD FO - CORPORATE FO - CORPORATE CMC CMC CMC CMC CMC CMC CMC C						

SI. No.	CONDITIONS	COMPLIANCE STATUS				
	System of reporting of noncompliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.	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 ED COMPORATE LINE OFFICIAL PLANTS Making Cofficial Making (Official National Cofficial National Cofficia				
xxiv.	The project proponent shall provide for 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 & on roads side near temple outside the plant 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.				
xxvi.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	It shall be complied. At present no any major project activities are going on, and workers whoever involved in construction activities are from nearby area and do not require to stay at project site.				
SENERA	AL 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 –11 .				
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, PM2.5, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be	Ambient Air Quality Monitoring being carried on as per direction in consideration of maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ , and NO _x . Purchase Order for AAQMS have been placed and shall be installed in consultation with WBPCB.				

Six Monthly Compliance Report (October, 2021–March, 2022)

SI. No.	CONDITIONS	COMPLIANCE STATUS				
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 or sold with mill scale. Back wash/reject water from softener being taken into neutralization pit and after maintaining the pH it is being utilized for dust suppression and, ash handling, bed ash cooling and for sprinkling on road to control fugitive dust emissions. No industrial effluent being discharged outside the factory premises.				
v.	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 day time and 70 dB(A) during nighttime.	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- 12A & 12B				
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 report is enclosed as Annexure-13				
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 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.	Environmental protection measures have been implemented for effective compliance of safe guards and recommended in the EIA/EMP reports. Socio-economic development of local community has already undertaken through providing job to local people. SIPL have undertaken various social activities in nearby villages in consultation with local communities for their benefit of health, education, cultural activities, and employment to local people etc. The SIPL has varieties of CSR activities with its NGO Shree Shyam Seva Sansthan. As a part of CSR the Sansthan has distributed nutrition kits containing rice, dal and edible oils to less privileged people. The company has dedicated HR & IR personnel to look after the welfare activities for local community and redressing of issues if any. Some photographs of CSR activity are attached as Annexure-10.				
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	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 [Lec ESPs]				

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
	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.	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 advance stage of completion. Suitable man powers have been engaged for an efficient operation, monitoring and maintenance of the devices installed.
x.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied. Clearance letter is sent to concerned local body. The EC copy is attached as Annexure-14. 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.	Being complied. 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 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	Being complied. The environment statement (Form-V) for Financial Year 2020-21 has already been submitted and for FY: 2021-22 will be submitted to WBPCB with copy to Integrated Regional Office of the MOEF&CC, Kolkata. The report will be uploaded on the company's website as per direction.

SI. No.	CONDITIONS	COMPLIANCE STATUS
	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 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	Complied.
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.	Financial closure as well as date of start of land development work has already been informed.
Additio	nal condition as per EC Amended F. No. J-11011/2	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.



Annexure – 1











FORMAT NO: ENV/FM/38

Name of the Industry	:	Shakambhari Ispat & Power Ltd.					Type of Industry	ype of Industry			Steel & Power Unit			
Address	:	Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia,					Sampling Date : 23.03.2022							
		Dist – Pur	Dist - Purulia, (WB)- 723121			Period of Analysis	:	26.03.2022 - 28.03.2022						
							Date of Issue		:	30.03.2022				
Sampling Plan	1 & I	Procedure	:	ENV/SOP/01	Deviation	tion from the Sampling Method and Plan :		:	No	Type of	:	Stack		
							Sample		Emission					
Sample ID No.	Sample ID No. : ENV/65/March/A/I				Report No.	: ENV/65/March/	TR(A)/I/	21-22					

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln (No. 1 & 2) (100 TPD each) (attache	totary Kiln (No. 1 & 2) (100 TPD each) (attached to common Stack)							
Shape of Stack	:	Circular	:	35.0						
			G. L.)		1					
Materials of	:	M.S.	Stack I.D. at sampling point							
Construction			(mtr.)							
Capacity	:	100 TPD (each)	Height of sampling port	:	15.0					
			(mtr.) (from G.L.)							
Emission Due to	:	Combustion of Coal & Reduction of Fe-Ore								
Fuel Used	:	Coal	pal Permanent Platform & Ladder : Yes							
Working Fuel	:	5.12 MT/hr./Kiln	MT/hr./Kiln							
Consumption										
Pollution Control Device	:	W.H.R.B with E.S.P								

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.					
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	142.0
2.	Barometric Pressure	mm of Hg.		:	754.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	9.90
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	78053.19
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	781.24
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	11.0
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	:	<1.0
8.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	41.38
	Matter (at 11% CO ₂)	J	3685/D 3685M-98 (reapproved 2005) : Sec. 11		
	b) Concentration of Particulate		(Vol. 3 11.07): 2011	:	45.14
	Matter (at 12% CO ₂)				
Remar	· · ·	•			

Reviewed By :

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

Indrawi Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY

Technical 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	:	Shakambh	ari	Ispat & Power Lt	d.		Type of Industry		:	Steel & Pow	/er	Unit
Address	:	Vill Mad	lanc	lih, P.O. – Bartori	a, P.S Ne	eturia,	Sampling Date		:	23.03.2022		
		Dist - Pur	ulia	, (WB)- 723121			Period of Analysis		:	26.03.2022	- 2	8.03.2022
							Date of Issue		:	30.03.2022		
Sampling Plan	ı & 1	Procedure		ENV/SOP/01	Deviation	n from the Sampling	g Method and Plan		No	Type of		Stack
										Sample		Emission
Sample ID No. : ENV/65/March/A/II						Report No. :	ENV/65/March/	TR(A)/II/	21-22		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln (No. 3 & 4) (100 TPD each) (attache	d to common Stack)			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from	:	35.	0
			G. L.)			
Materials of	:	M.S.	Stack I.D. at sampling point	:	2.0	
Construction			(mtr.)			
Capacity	:	100 TPD	Height of sampling port	:	15.	0
			(mtr.) (from G.L.)			
Emission Due to		Combustion of Coal & Reduction of Fe-Ore				
Fuel Used	:	Coal	Permanent Platform & Ladder	1	:	Yes
Working Fuel	:	5.12 MT/hr./Kiln				
Consumption						
Pollution Control Device		E.S.P with W.H.R.B				

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.					
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	148.0
2.	Barometric Pressure	mm of Hg.		:	754.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	11.22
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	88802.92
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	679.91
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	10.8
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	:	<1.0
8.	a) Concentration of Particulate	mg/Nm ³		:	41.83
	Matter (at 10.8% CO ₂)		IS 11255 (Part - 1) 1985 RA 2003 & ASTM D		
	b) Concentration of Particulate		3685/D 3685M-98 (reapproved 2005):	:	46.47
	Matter (at 12% CO ₂)		Sec. 11 (Vol. 3 11.07): 2011		

Remarks

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY

Technical Manager

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

: 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 Ph. 033 25792889 Laboratory : info@envirocheck.in / envirocheck50@gmail.com • Website : www.envirocheck.in E-mail Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi

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FORMAT NO: ENV/FM/38

Name of the Industry	:	Shakambl	ari	Ispat & Power Lt	td.		Type of Industry		:	Steel & Pov	ver l	Unit
Address	:	Vill. – Mad	lanc	lih, P.O. – Bartori	a, P.S. – Ne	eturia,	Sampling Date		:	23.03.2022		
		Dist – Pur	ulia	, (WB)- 723121			Period of Analysis		:	26.03.2022	- 2	8.03.2022
							Date of Issue		:	30.03.2022		
Sampling Plan	1 & I	Procedure	:	ENV/SOP/01	Deviation	n from the Samplin	g Method and Plan		No	Type of	:	Stack
						7			Sample		Emission	
Sample ID No. : ENV/65/March/A/III						Report No.	ENV/65/March/	TR(A)/II	/21-22		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Hoods Over Induction Furnace (5 nos.) attached	l to common stack		
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	30.0
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 Scrap			
Fuel Used	:	Electrically Operated	Permanent Platform & Ladder	1	: Yes
Working Fuel Consumption	:	Yes			
Pollution Control Device	:	Bag Filter			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	62.0
2.	Barometric Pressure	mm of Hg.		:	754.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	9.04
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	22554.68
5.	Concentration of Particulate	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	24.33
	Matter		3685/D 3685M-98 (reapproved 2005):		
			Sec. 11 (Vol. 3 11.07) : 2011		

Remarks : During monitoring 4 nos. furnaces were in operation.

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattackaryge

Approved By:

Dr. SUMIT CHOWDHURY
Technical 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	:	Shakambh	ari	Ispat & Power Lt	d.		Type of Industry		:	Steel & Pow	ver `	Unit
Address	:	Vill Mad	lanc	lih, P.O. – Bartori	a, P.S Ne	eturia,	Sampling Date		:	24.03.2022		
		Dist - Pur	ulia	, (WB)- 723121			Period of Analysis		:	26.03.2022	- 2	8.03.2022
							Date of Issue		:	30.03.2022		
Sampling Plan	1 & I	Procedure		ENV/SOP/01	Deviation	n from the Sampling	g Method and Plan		No	Type of	:	Stack
							1			Sample		Emission
Sample ID No. : ENV/65/March/A/IV						Report No. :	ENV/65/March/	TR(A)/IV	/21-22		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln No. 7(1 x600 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			
Fuel Used	:	Coal	Permanent Platform & Ladde	r	: Yes
Working Fuel Consumption	:				
Pollution Control Device	:	E.S.P			

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.					
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	188.0
2.	Barometric Pressure	mm of Hg.		:	754.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	10.44
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	:	86995.84
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	611.79
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	11.0
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	:	<1.0
8.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	39.42
	Matter (at 11% CO ₂)		3685/D 3685M-98 (reapproved 2005):		
	b) Concentration of Particulate		Sec. 11 (Vol. 3 11.07): 2011	:	43.0
	Matter (at 12% CO ₂)				

Remarks

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattackaryja

Approved By:

Dr. SUMIT CHOWDHURY

Technical Manager

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

: 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 Ph. 033 25792889 Laboratory : info@envirocheck.in / envirocheck50@gmail.com
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FORMAT NO: ENV/FM/38

Name of the Industry	:	Shakambh	ari	Ispat & Power Lt	d.		Type of Industry		:	Steel & Pow	ver `	Unit
Address	:	Vill Mad	lanc	lih, P.O. – Bartori	a, P.S Ne	eturia,	Sampling Date		:	24.03.2022		
		Dist - Pur	ulia	, (WB)- 723121			Period of Analysis		:	26.03.2022	- 2	8.03.2022
							Date of Issue		:	30.03.2022		
Sampling Plan	1 & I	Procedure		ENV/SOP/01	Deviation	n from the Sampling	g Method and Plan		No	Type of	:	Stack
							1			Sample		Emission
Sample ID No. : ENV/65/March/A/VI						Report No. :	ENV/65/March/	TR(A)/VI	/21-22		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln No. 5 &6(2 x 350 TPD)(attached to	common Stack)		
Shape of Stack	:	Circular	Height of Stack (mtr.) (from	:	72.0
			G. L.)		
Materials of		Concrete	Stack I.D. at sampling point	:	2.60
Construction			(mtr.)		
Capacity		350 TPD (each)	Height of sampling port	:	51.2
			(mtr.) (from G.L.)		
Emission Due to		Oxidation of Coal & Reduction of Fe-Ore			
Fuel Used	:	Coal	Permanent Platform & Ladder	r	: Yes
Working Fuel		13.5 TPH/Kiln			
Consumption					
Pollution Control Device		W.H.R.B with E.S.P			

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.					
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	180.0
2.	Barometric Pressure	mm of Hg.		:	754.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	11.95
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	:	145259.29
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	707.76
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	11.2
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	:	<1.0
8.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	39.63
	Matter (at 11.2% CO ₂)		3685/D 3685M-98 (reapproved 2005):		
	b) Concentration of Particulate		Sec. 11 (Vol. 3 11.07) : 2011	:	42.46
	Matter (at 12% CO ₂)				

Remarks : During monitoring both kilns were in operation

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Blattacharyya

Approved By:

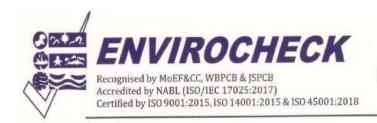
Dr. SUMIT CHOWDHURY

Technical Manager

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

: 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 Ph. 033 25792889 Laboratory : info@envirocheck.in / envirocheck50@gmail.com
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FORMAT NO: ENV/FM/38

Name of the Industry	:	Shakambh	ari	Ispat & Power Lt	d.		Type of Industry		:	Steel & Pow	ver `	Unit
Address	:	Vill Mad	lanc	lih, P.O. – Bartori	a, P.S Ne	eturia,	Sampling Date		:	24.03.2022		
		Dist - Pur	ulia	, (WB)- 723121			Period of Analysis : 26.03.2022 – 28.03				8.03.2022	
							Date of Issue		:	30.03.2022		
Sampling Plan	1 & I	Procedure		ENV/SOP/01	Deviation	n from the Sampling	g Method and Plan		No	Type of	:	Stack
									Sample		Emission	
Sample ID No. : ENV/65/March/A/V						Report No. :	ENV/65/March/	TR(A)/V/	21-22		

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		Concrete	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	·		
Fuel Used	:	Coal &Dolochar	Permanent Platform & Ladde	r	: Yes
Working Fuel	:	Coal – 12.5MT/hr.&Dolochar – 8.33 MT/hr.			
Consumption					
Pollution Control Device	:	E.S.P			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	190.0
2.	Barometric Pressure	mm of Hg.	·	:	754.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	10.45
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	:	124166.27
5.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	275.46
6.	Concentration of NO _x (at 6% O ₂)	mg/Nm ³	IS: 11255 (Part 7) 2005 & ASTM D 1608-98	:	126.51
			reapproved 2009 : Sec 11 (Vol. 11.07) : 2011		
7.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	11.8
8.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	:	<1.0
9.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	13.72
	Matter		3685/D 3685M-98 (reapproved 2005):		
	b) Concentration of Particulate		Sec. 11 (Vol. 3 11.07) : 2011	:	14.50
	Matter (at 6% O ₂)		•		
Remar					

Reviewed By:

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

Indrawi Blattackaryya

Approved By:

Dr. SUMIT CHOWDHURY

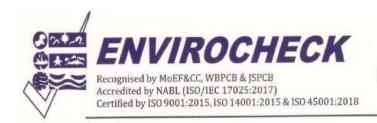
Technical Manager

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	:	Shakambh	ari	Ispat & Power Lt	d.		Type of Industry		:	Steel & Pow	ver `	Unit
Address	:	Vill. – Mad	lanc	lih, P.O. – Bartori	a, P.S Ne	eturia,	Sampling Date		:	25.03.2022		
		Dist - Pur	ulia	, (WB)- 723121			Period of Analysis : 26.03.2022 - 28.03.				8.03.2022	
							Date of Issue		:	30.03.2022		
Sampling Plan	1 & I	Procedure	:	ENV/SOP/01	Deviation	n from the Sampling	g Method and Plan	:	No	Type of	:	Stack
										Sample		Emission
Sample ID No. : ENV/65/March/A/VII						Report No. :	ENV/65/March/	TR(A)/VI	I/21-22		

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.)	:	1.80
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	: Yes
Working Fuel	:	Nil			
Consumption					
Pollution Control Device	:	F. D. Cooler and Pulse Jet Bag Filter			

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.					
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	68.0
2.	Barometric Pressure	mm of Hg.		:	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	7.45
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	59173.75
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	112.57
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	2.4
7.	Concentration of CO	% (v/v)	IS 13270 1992 RA 2003	:	<1.0
8.	Concentration of Particulate	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	21.31
	Matter		3685/D 3685M-98 (reapproved 2005):		
			Sec. 11 (Vol. 3 11.07) : 2011		

Remarks

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY
Technical 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	:	Shakambh	ari	Ispat & Power Lt	d.		Type of Industry		:	Steel & Pov	ver	Unit	
Address					a, P.S. – Ne	eturia,	Sampling Date		: 25.03.2022				
	Dist – Purulia, (WB) – 723121						Period of Analysis : 26.0			26.03.2022	26.03.2022 - 28.03.2022		
							Date of Issue		:	30.03.2022			
Sampling Plan	1 & I	Procedure		ENV/SOP/01	Deviation	n from the Samplin	g Method and Plan	:	No	Type of	:	Stack	
								Sample		Emission			
Sample ID No. : ENV/65/March/A/VIII					Report No.	: ENV/65/March/	TR(A)/VI	II/21-22				

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF (No.2)	11 = 1			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	32.0	0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	1.80	0
Capacity	:	9.0 MVA	Height of sampling port (mtr.) (from G.L.)	:	22.0	0
Emission Due to	:	Reduction of Si-Mn Ore				
Fuel Used	:	N.A. (Electrically Operated)	Permanent Platform & Ladde	r	:	Yes
Working Fuel	:	Nil				
Consumption						
Pollution Control Device	:	F. D. Cooler and Pulse Jet Bag Filter				

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.					
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	68.0
2.	Barometric Pressure	mm of Hg.		:	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	7.45
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	59173.75
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	116.1
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	2.3
7.	Concentration of CO	% (v/v)	IS 13270 1992 RA 2003	:	<1.0
8.	Concentration of Particulate	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	26.43
	Matter		3685/D 3685M-98 (reapproved 2005):		
			Sec. 11 (Vol. 3 11.07) : 2011		

Remarks

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY
Technical 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		Shakambh	ari	Ispat & Power Lt	d.		Type of Industry		:	Steel & Power Unit			
Address	:	Vill Mad	lanc	lih, P.O. – Bartori	a, P.S Ne	eturia,	Sampling Date		:	25.03.2022			
		Dist - Pur	ulia	, (WB)- 723121			Period of Analysis :			26.03.2022 - 28.03.2022			
							Date of Issue		:	30.03.2022			
Sampling Plan	& 1	Procedure		ENV/SOP/01	Deviation	n from the Sampling	g Method and Plan		No	Type of	:	Stack	
										Sample		Emission	
Sample ID No. : ENV/65/March/A/IX						Report No. :	ENV/65/March/	TR(A)/IX	/21-22			

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			
Fuel Used	:	N.A. (Electrically Operated)	Permanent Platform & Ladde	r	: Yes
Working Fuel Consumption	:	Nil	25-44		
Pollution Control Device	:	F. D. Cooler and Pulse Jet Bag Filter			

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.					
1.	Flue Gas Temperature	oC	IS 11255 (Part 1)	:	68.0
2.	Barometric Pressure	mm of Hg.		:	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	7.45
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	59173.75
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	12.94
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	2.4
7.	Concentration of CO	% (v/v)	IS 13270 1992 RA 2003	:	<1.0
8.	Concentration of Particulate	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	25.70
	Matter		3685/D 3685M-98 (reapproved 2005):		
			Sec. 11 (Vol. 3 11.07) : 2011		

Remarks

Reviewed By:

 INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY
Technical 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		Shakambh	ari	Ispat & Power Lt	d.		Type of Industry	pe of Industry			Steel & Power Unit			
Address	:	Vill Mad	lanc	lih, P.O. – Bartori	a, P.S Ne	eturia,	Sampling Date	:	25.03.2022					
		Dist - Pur	ulia	, (WB)- 723121			Period of Analysis			26.03.2022 - 28.03.2022				
							Date of Issue		:	30.03.2022				
Sampling Plan	ı & 1	Procedure		ENV/SOP/01	Deviation	n from the Sampling	g Method and Plan		No	Type of	:	Stack		
									Sample		Emission			
Sample ID No.		: ENV/65	/M	arch/A/X		Report No. :	ENV/65/March/	TR(A)/X/	21-22				

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.)	:	1.80
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	: Yes
Working Fuel	:	Nil			
Consumption					
Pollution Control Device	:	F. D. Cooler and Pulse Jet Bag Filter			

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.					
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	68.0
2.	Barometric Pressure	mm of Hg.		:	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	7.45
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	59173.75
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	96.35
ó.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	2.2
7.	Concentration of CO	% (v/v)	IS 13270 1992 RA 2003	:	<1.0
3.	Concentration of Particulate	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	28.14
	Matter		3685/D 3685M-98 (reapproved 2005):		
			Sec. 11 (Vol. 3 11.07) : 2011		

Remarks

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical Approved By:

Dr. SUMIT CHOWDHURY
Technical 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

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Annexure – 2











FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambh	ari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Power Unit			
Address	:	Vill Mad	anc	lih, P.O. – Bartori	a, P.S. – Ne	eturia,		Sampling Date			24.03.2022			
		Dist - Pur	ulia	, (WB)- 723121				Period of Analysis			26.03.2022 - 28.03.2022			
								Date of Issue		:	30.03.2022			
Sampling Plan	1 & I	Procedure	:	ENV/SOP/01	Deviation	n from the Sampli	ng	Method and Plan		No	Type of	:	Work Zone	
							- 1			Sample		Air		
Sample ID No. : ENV/65/March/A/XV						Report No.	:	ENV/65/March/	ΓR(A)/XV	7/21-22			

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Rolling Mill Division (Near Store)

2. Duration of Sampling : 08 hrs. (09:30a.m. – 05:30 p.m.)

B] METEOROLOGICAL INFORMATION

Barometric Pressure (mm of Hg)

1. Average Temperature (°C) : 34.0

 $2. \qquad \text{Average Relative Humidity (\%)} \qquad \qquad : \quad 70.0$

4. Smell or Odour : No Remarkable Smell

C] RESULTS

3.

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SPM	μg/m³	NIOSH 0500 : 2005	471.80
Remai	rks :			

754.0

Reviewed By:

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

MAN

Approved By:

Dr. SUMIT CHOWDHURY
Technical 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/57

Name of the Industry	:	Shakambh	ari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Power Unit			
Address	:	Vill Mad	land	lih, P.O. – Bartori	a, P.S Ne	eturia,		Sampling Date		24.03.2022				
		Dist - Pur	ulia	(WB)- 723121				Period of Analysis			26.03.2022 - 28.03.2022			
								Date of Issue	of Issue : 30.03.2022					
Sampling Plan	1 & I	Procedure		ENV/SOP/01	Deviation	n from the Sampli	ng	Method and Plan		No	Type of	:	Work Zone	
							12		Sample		Air			
Sample ID No.	: ENV/65	Report No.	:	ENV/65/March/	TR(A)/XV	V/21-22							

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Rolling Mill Division (Near Store)

2. Duration of Sampling : 08 hrs. (09:30 a.m. – 05:30 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0

2. Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	METHOD NO.	RESULTS	
1.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved	18.56
		A	2007: Sec. 11 (Vol. 11.07) : 2011	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	32.46
			2005 : Sec. 11 (Vol. 11.07) : 2011	

Remarks

Reviewed By:

 INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY
Technical 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/57

Name of the	:	Shakambh	ari	Ispat & Power Lt	d.			Type of Industry			Steel & Pov	/er	Unit
Industry													
Address	:	Vill. – Mad	and	lih, P.O. – Bartori	a, P.S. – Ne	eturia,		Sampling Date	:	24.03.2022			
		Dist – Pur	ulia	, (WB)- 723121			Period of Analysis			26.03.2022 - 28.03.2022			
							Ī	Date of Issue		:	30.03.2022		
Sampling Plan	1 &	Procedure	:	ENV/SOP/01	Deviation	n from the Sampli	ng	Method and Plan	:	No	Type of	:	Work Zone
										Sample		Air	
Sample ID No		: ENV/65	/M	arch/A/XVI		Report No.	:	ENV/65/March/	ΓR(A)/XV	/I/21-22		

A] GENERAL INFORMATION

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

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0

2. Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SPM	μg/m³	NIOSH 0500 : 2005	380.02

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical Approved By :

Dr. SUMIT CHOWDHURY

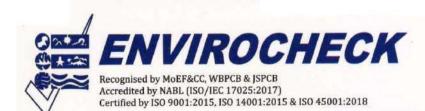
Technical Manager

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

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FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambh	ari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Power Unit				
Address	:	Vill Mad	lanc	lih, P.O. – Bartori	a, P.S Ne	eturia,		Sampling Date			24.03.2022				
		Dist - Pur	ulia	, (WB)- 723121				Period of Analysis		26.03.2022 - 28.03.2022					
							Date of Issue : 30.03.2022								
Sampling Plan	1 & I	Procedure	•	ENV/SOP/01	Deviation	n from the Sampli	ng	Method and Plan		No	Type of	:	Work Zone		
							14		Sample		Air				
Sample ID No.		: ENV/65	/M	arch/A/XVI		Report No.	:	ENV/65/March/	TR(A)/XV	/I/21-22				

A] GENERAL INFORMATION

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

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0

2. Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	RESULTS		
1.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved	11.52
		ALC:	2007: Sec. 11 (Vol. 11.07) : 2011	
2.	Concentration of NO ₂	μg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	29.87
			2005 : Sec. 11 (Vol. 11.07) : 2011	

Remarks

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY
Technical 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

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FORMAT NO: ENV/FM/57

Name of the	:	Shakambh	ari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Pov	ver l	Unit
Industry													
Address	:	Vill Mad	land	lih, P.O. – Bartori	a, P.S Ne		Sampling Date			24.03.2022			
		Dist – Pur	ulia	, (WB)- 723121		Period of Analysis			26.03.2022 - 28.03.2022				
								Date of Issue		:	30.03.2022		
Sampling Plan	1 &	Procedure	:	ENV/SOP/01	Deviation	n from the Sampli	ng	Method and Plan	:	No	Type of	:	Work Zone
								1			Sample		Air
Sample ID No		: ENV/65	/M	arch/A/XVII		Report No.	:	ENV/65/March/7	ΓR(A)/XV	/II/21-22		

A] GENERAL INFORMATION

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

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0

2. Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SPM	μg/m³	NIOSH 0500 : 2005	316.55

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical Approved By :

Dr. SUMIT CHOWDHURY

Technical 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

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FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambh	ari	Ispat & Power Lt	td.			Type of Industry		:	Steel & Pow	ver l	Unit
Address	:	Vill Mad	and	lih, P.O. – Bartori	a, P.S. – Ne		Sampling Date			24.03.2022			
		Dist - Pur	ulia	(WB)- 723121			Period of Analysis		:	26.03.2022 - 28.03.2022			
		4					Γ	Date of Issue		:	30.03.2022		
Sampling Plan	1 & I	Procedure	:	ENV/SOP/01	Deviation	n from the Sampli	ng l	Method and Plan	:	No	Type of	:	Work Zone
				51							Sample		Air
Sample ID No.		: ENV/65	/M	arch/A/XVII		Report No.	:	ENV/65/March/7	rr(A)/XV	/II/21-22		

A] GENERAL INFORMATION

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

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0

2. Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 754.0

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) 2001 & ASTM D 2914-01 reapproved	8.32
		a d	2007: Sec. 11 (Vol. 11.07): 2011	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	28.0
	. ^		2005 : Sec. 11 (Vol. 11.07) : 2011	

Remarks

Reviewed By:

 INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattacharyya

Approved By:

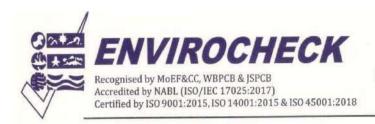
Dr. SUMIT CHOWDHURY
Technical Manager

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/57

Name of the	:	Shakambh	ari	Ispat & Power Lt	td.		Type of Industry		:	Steel & Pov	ver	Unit
Industry												
Address	:	Vill. – Mad	land	dih, P.O. – Bartori	a, P.S Ne	eturia,	Sampling Date			24.03.2022		
		Dist - Pur	ulia	, (WB)- 723121			Period of Analysis		:	26.03.2022 - 28.03.2022		
							Date of Issue :			30.03.2022		
Sampling Plan	1 & I	Procedure	:	ENV/SOP/01	Deviation	n from the Sampling	g Method and Plan	:	No	Type of	:	Work Zone
									Sample		Air	
Sample ID No.		: ENV/65	/M	arch/A/XVIII		Report No. :	ENV/65/March/	TR(A)/X\	/III/21-22		

A] GENERAL INFORMATION

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

2. Duration of Sampling : 08 hrs. (11:00a.m. – 07:00p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 35.0

2. Average Relative Humidity (%) : 72.0

3. Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.	RESULTS				
1.	Concentration of SPM	μg/m³	NIOSH 0500 : 2005	310.77				
Remarks :								

Reviewed By :

 INDRANI BHATTACHARYA Dy. Technical Manager, Chemical Approved By:

Dr. SUMIT CHOWDHURY

Technical 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/57

								1 1			
Name of the	:	Shakambh	ari Ispat & Powe	r Ltd.		Type of Industry	Type of Industry : Steel & Power Unit				
Industry			-						8		
Address	:	Vill. – Mad	andih, P.O. – Bar	toria, P.S. – N	eturia,	Sampling Date :			24.03.2022		
		Dist – Puru	ılia, (WB)– 7231	Period of Analysis	Period of Analysis			26.03.2022 - 28.03.2022			
		4			Date of Issue	1	:	30.03.2022			
Sampling Plan	1 & I	Procedure	: ENV/SOP/0	1 Deviation	on from the Sampl	ng Method and Plan	:	No	Type of	:	Work Zone
									Sample		Air
Sample ID No		: ENV/65	/March/A/XVIII		Report No.	: ENV/65/March	TRO	4)/XV	VIII/21-22		

A] GENERAL INFORMATION

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

2. Duration of Sampling : 08 hrs. (11:00 a.m. – 07:00p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 35.0

2. Average Relative Humidity (%) : 72.0

3. Barometric Pressure (mm of Hg) : 754.0

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) 2001 & ASTM D 2914-01 reapproved	10.88
			2007: Sec. 11 (Vol. 11.07) : 2011	
2.	Concentration of NO ₂	μg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	31.52
	. /		2005 : Sec. 11 (Vol. 11.07) : 2011	

Remarks

Reviewed By:

 INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY
Technical 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/57

Name of the	:	Shakambh	ari	Ispat & Power Lt	d.			Type of Industry			Steel & Power Unit		
Industry													
Address	:	Vill Mad	and	lih, P.O. – Bartori	a, P.S Ne		Sampling Date			25.03.2022			
		Dist – Pur	ulia	, (WB)- 723121		Period of Analysis			26.03.2022 - 28.03.2022				
								Date of Issue		:	30.03.2022		
Sampling Plan	1 &	Procedure	:	ENV/SOP/01	Deviation	n from the Sampli	ng	Method and Plan	:	No	Type of	:	Work Zone
										Sample		Air	
Sample ID No		: ENV/65	/M	arch/A/XIX		Report No.	:	ENV/65/March/	TR(A)/XI	X/21-22		

A] GENERAL INFORMATION

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

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0

Average Relative Humidity (%) : 70.0
 Barometric Pressure (mm of Hg) : 755.0

4. Smell or Odour : No Remarkable Smell

C1 RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SPM	μg/m³	NIOSH 0500 : 2005	326.10
Rema	rks :			

d. de a hattachery

Reviewed By:

 INDRANI BHATTACHARYA Dy. Technical Manager, Chemical Approved By:

Dr. SUMIT CHOWDHURY

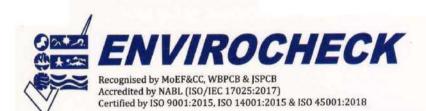
Technical Manager

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/57

Name of the Industry	:	Shakambh	ari	Ispat & Power Lt	d.		Type of Industry		:	: Steel & Power Unit				
Address	:	Vill. – Mad	land	lih, P.O. – Bartori	a, P.S Ne	eturia,	Sampling Date			25.03.2022				
		Dist - Pur	ulia	(WB)- 723121			Period of Analysis			26.03.2022 - 28.03.2022				
							Date of Issue	- 3	:	30.03.2022				
Sampling Plan	1 & I	Procedure	:	ENV/SOP/01	Deviation	n from the Samplin	g Method and Plan	:	No	Type of	:	Work Zone		
									9	Sample		Air		
Sample ID No		: ENV/65	/M	arch/A/XIX	•	Report No. :	ENV/65/March/	rr(4)/XI	X/21-22				

A] GENERAL INFORMATION

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

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0

2. Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 755.0

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) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	12.80
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	29.87
Remai	·ks :	No.	TO THE RESIDENCE OF THE PARTY O	

Reviewed By:

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

Indrawi Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY

Technical 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/57

Name of the	:	Shakambhari Ispat & Power Ltd.						Type of Industry		:	Steel & Pow	ver '	Unit
Industry													
Address	:	Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia,						Sampling Date		:	25.03.2022		
		Dist – Purulia, (WB) – 723121					Period of Analysis		:	26.03.2022 - 28.03.2022			
								Date of Issue		:	30.03.2022		
Sampling Plan & Procedure : ENV/SOP/01 Deviation from the Sa		n from the Sampli	ng	Method and Plan	:	No	Type of	:	Work Zone				
											Sample		Air
Sample ID No. : ENV/65/March/A/XX Report No. :						ENV/65/March/	ΓR(A)/XX	7/21-22				

GENERAL INFORMATION A]

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

2. **Duration of Sampling** 08 hrs. (10:30 p.m. - 06:30p.m.)

B] METEOROLOGICAL INFORMATION

33.0 1. Average Temperature (°C)

2. Average Relative Humidity (%) 68.0

3. Barometric Pressure (mm of Hg) 755.0

4. Smell or Odour No Remarkable Smell

RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS				
1.	Concentration of SPM	μg/m³	NIOSH 0500 : 2005	491.50				
Remarks :								

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattackaryya

Approved By:

Dr. SUMIT CHOWDHURY

Technical Manager

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

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

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

Branch Office: UAE • Qatar • Netherlands Overseas









FORMAT NO: ENV/FM/57

Name of the	:	Shakambhari Ispat & Power Ltd.						Type of Industry		:	Steel & Power Unit		
Industry													
Address	: Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia,						Sampling Date			: 25.03.2022			
		Dist - Pur	Purulia, (WB) - 723121					Period of Analysis		:	: 26.03.2022 - 28.03.2022		
								Date of Issue	- 13	:	30.03.2022		
Sampling Plan	1 & I	Procedure	:	ENV/SOP/01	Deviation	n from the Sampl	ng	Method and Plan		No	Type of	:	Work Zone
				3							Sample		Air
Sample ID No : ENV/65/March/A/XX Repor						Report No		ENV/65/March/	rr(A)/XX	7/21-22		•

A] GENERAL INFORMATION

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

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 33.0

2. Average Relative Humidity (%) : 68.0

3. Barometric Pressure (mm of Hg) : 755.0

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) 2001 & ASTM D 2914-01 reapproved	8.32
2.	Concentration of NO ₂	μg/m ³	2007: Sec. 11 (Vol. 11.07) : 2011 IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	32.46
	. ^		2005 : Sec. 11 (Vol. 11.07) : 2011	

Reviewed By :

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattackaryja

Approved By:

Dr. SUMIT CHOWDHURY

Technical 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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FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambh	ari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Pov	/er	Unit
Address	:	Vill. – Mad	land	lih, P.O. – Bartori	a, P.S. – Ne	turia,		Sampling Date		:	25.03.2022		
		Dist - Pur	ulia	, (WB)- 723121				Period of Analysis		:	26.03.2022	- 2	8.03.2022
							F	Date of Issue		:	30.03.2022		
Sampling Plan	ı &	Procedure	:	ENV/SOP/01	Deviation	n from the Sampli	ng	Method and Plan	:	No	Type of Sample	:	Work Zone Air
Sample ID No		: ENV/65	/M	arch/A/XXI		Report No.	•	ENV/65/March/	rr(<i>P</i>	\)/XX	F	l	AII

A] GENERAL INFORMATION

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

2. Duration of Sampling : 08 hrs. (11:30 p.m. – 07:30p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 35.0

2. Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SPM	μg/m³	NIOSH 0500 : 2005	293.56
Rema	arks :			

Reviewed By:

 INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattacharyja

Approved By:

Dr. SUMIT CHOWDHURY

Technical 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

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Overseas : UAE = Qatar = Netherlands

FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambh	ari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Pow	er i	Unit
Address	:	Vill. – Mad	anc	lih, P.O. – Bartori	a, P.S Ne	eturia,		Sampling Date		:	25.03.2022		
		Dist – Puri	ılia	, (WB)- 723121				Period of Analysis		:	26.03.2022	- 2	8.03.2022
								Date of Issue		:	30.03.2022		
Sampling Plar	ı & :	Procedure	:	ENV/SOP/01	Deviation	n from the Samplir	ıg	Method and Plan	:	No	Type of	:	Work Zone
											Sample		Air
Sample ID No	. Т	: ENV/65	$/\overline{M}$	arch/A/XXI		Report No.	:	ENV/65/March/	$\Gamma R(I$	(X)/X	ΚΙ/21- <mark>22</mark>		

A] GENERAL INFORMATION

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

2. Duration of Sampling : 08 hrs. (11:30 p.m. – 07:30p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 35.0
 Average Relative Humidity (%) : 70.0

3. Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.	RESULTS
NO.	Concentration of SO ₂	a./m3	IC F102 (Dowt 2) 2001 9 ACTM D 2014 01 recommend	7.68
1.	Concentration of 502	μg/m³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved	7.00
			2007: Sec. 11 (Vol. 11.07) : 2011	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	28.46
			2005 : Sec. 11 (Vol. 11.07) : 2011	
Remai	rks :			

Reviewed By:

 INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY
Technical Manager

RCC ROAD & PAVER BLOCK AREA INSIDE PLANT













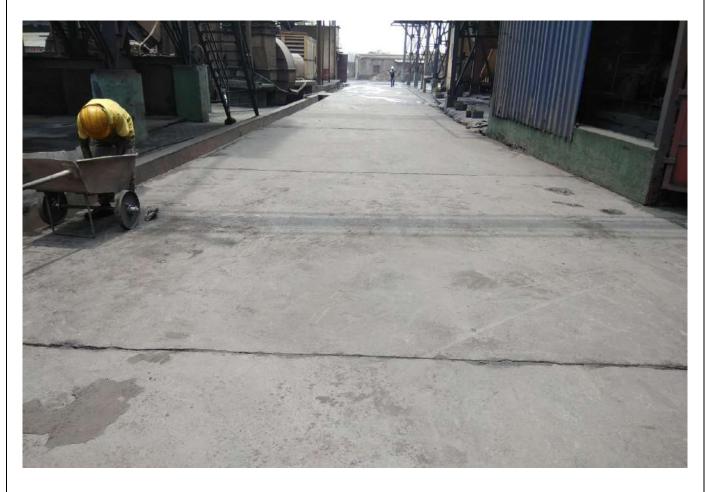
















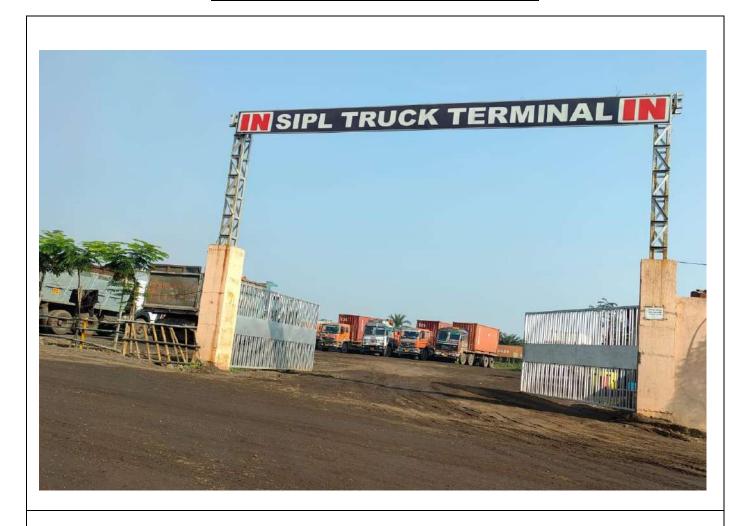


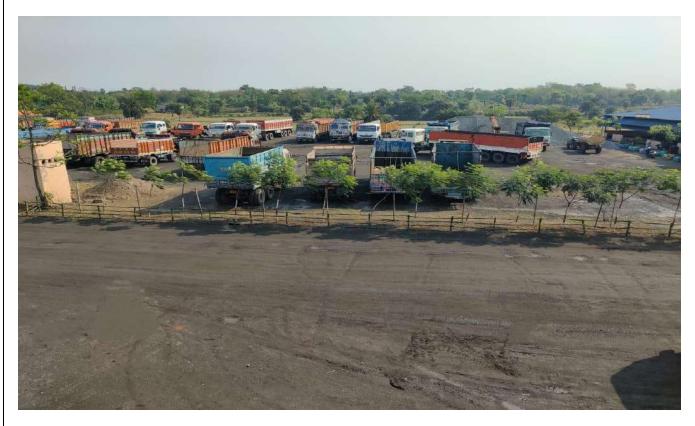




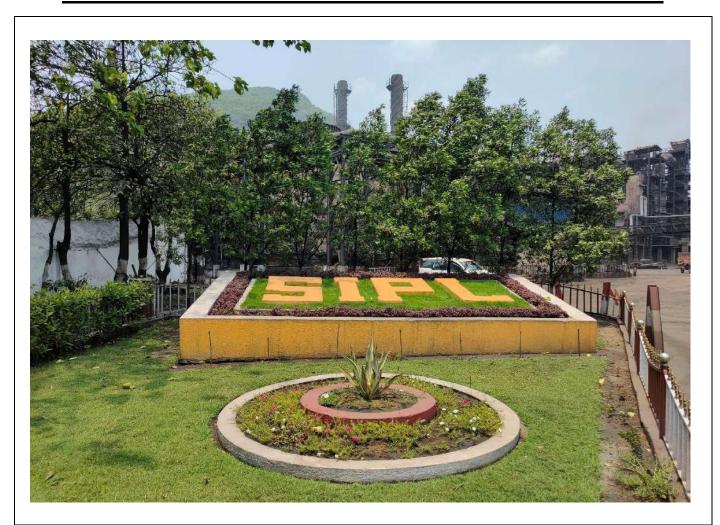


TRUCK PARKING AREA





PLANTATION/GREEN COVER WITH INDIGENOUS SPECIES



































































FORMAT NO: ENV/FM/37

Name Indust	of the try	:	Shakambhari	Ispat & Power Lt	td.			Type of Industry	:	Steel & Power Unit
Addre	SS .	:	Vill. – Madano	dih, P.O. – Bartori	a, P.S. – Ne	turia,		Sampling Date	:	23.03.2022 - 24.03.2022
			Dist – Purulia	, (WB)- 723121				Period of Analysis	:	26.03.2022 - 28.03.2022
								Date of Issue	:	30.03.2022
Sampl	ing Plar	1 & I	Procedure :	ENV/SOP/01	Deviation	n from the Samp	lin	g Method and Plan :	No	Type of : Ambient Air Sample
Sampl	e ID No.		: ENV/65/M	arch/A/XIV		Report No.	:	ENV/65/March/TR(A	1)/XI	IV/21-22
A]	GENER	AL I	NFORMATION							
1.			of Sampling		:	Near Security	Ga	te (Southern Side)		
2.	Durati	on (of Sampling			24 hrs. (10:0	0 a.	m. – 10:00 a.m.)		
B]	METEO	ROI	OGICAL INFOR	MATION	40					
1.	Averag	ge T	'emperature (^c	⁰ C)	:	28.5				
2.	Averag	ge R	lelative Humid	lity (%)	:	64.0				
3.	Barom	etr	ic Pressure (m	ım of Hg)	:	754.0				
4.	Smell	or C	dour		:	No Remarkab	le S	Smell		
5.	Weath	er (Condition		:	Clear sky				

Cl RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	μg/m³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	52.20
2.	Concentration of PM ₁₀	μg/m ³	IS 5182 (PART 23): 2006	79.55
3.	Concentration of SO ₂	μg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	8.10
4.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	29.48
5.	Concentration of CO	mg/m³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.42
6.	Concentration of Pb	$\mu g/m^3$	IS 5182 (Part 22) 2004	< 0.01
7.	Benzo (a) Pyrene (BaP)	ng/m³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	μg/m³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	< 0.74
9.	Ozone (O ₃)	μg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	μg/m³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m³	EPA IO 3.2, 1999	< 0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	< 0.01
13.	Mercury (Hg)	mg/m ³	EPA IO.5: 1999	< 0.002

Reviewed By:

INDRANI BHATTACHARYA
 Dy. Technical Manager, Chemical

Indraui Bhattacharyya

Approved By:

Dr. SUMIT CHOWDHURY
Technical 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

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Overseas : UAE = Qatar = Netherlands











FORMAT NO: ENV/FM/37

Name of the Industry	:	Shakambh	ari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Pow	ver l	Unit
Address	:	Vill. – Mad	anc	lih, P.O. – Bartori	a, P.S. – Ne	eturia,		Sampling Date		:	23.03.2022	- 2	4.03.2022
		Dist - Pur	ulia	, (WB)- 723121				Period of Analysis		:	26.03.2022	- 2	8.03.2022
								Date of Issue		:	30.03.2022		
Sampling Plan	1 & I	Procedure	:	ENV/SOP/01	Deviation	n from the Sampli	ng	Method and Plan		No	Type of	:	Ambient Air
								11			Sample		
Sample ID No		: ENV/65	/M	arch/A/XI		Report No.	:	ENV/65/March/7	TR(A)/XI	/21-22		

A] **GENERAL INFORMATION**

1. Location of Sampling Madandih Village (0.5 K.m. from Plant) (Eastern Side) 2.

24 hrs. (09:00 a.m. - 09:00 a.m.) **Duration of Sampling**

B] **METEOROLOGICAL INFORMATION**

30.0 1. Average Temperature (°C) 2. Average Relative Humidity (%) 64.0 3. Barometric Pressure (mm of Hg) 754.0

4. Smell or Odour No Remarkable Smell

5. Weather Condition Clear sky

RESULTS C1

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	μg/m³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	51.66
2.	Concentration of PM ₁₀	μg/m³	IS 5182 (PART 23) : 2006	84.52
3.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved	14.50
			2007: Sec. 11 (Vol. 11.07) : 2011	
4.	Concentration of NO ₂	$\mu g/m^3$	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	30.03
			2005 : Sec. 11 (Vol. 11.07) : 2011	

Reviewed By:

· INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY

Technical Manager

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

: 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 Ph. 033 25792889 Laboratory : info@envirocheck.in / envirocheck50@gmail.com . Website : www.envirocheck.in E-mail Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi

: UAE . Qatar . Netherlands Overseas











FORMAT NO: ENV/FM/37

Name of the	:	Shakambh	ari	Ispat & Power Lt	td.			Type of Industry		:	Steel & Pov	ver l	Unit
Industry													
Address	:	Vill Mad	and	dih, P.O. – Bartori	a, P.S Ne	eturia,		Sampling Date		:	23.03.2022	- 2	4.03.2022
		Dist – Pur	ulia	, (WB)- 723121				Period of Analysis		:	26.03.2022	- 2	8.03.2022
								Date of Issue		:	30.03.2022		
Sampling Plan	1 &	Procedure	:	ENV/SOP/01	Deviation	n from the Sampli	ng	Method and Plan	:	No	Type of	:	Ambient Air
											Sample		
Sample ID No		: ENV/65	/M	arch/A/XII		Report No.	:	ENV/65/March/	TR(A)/XI	I/21-22		

A] **GENERAL INFORMATION**

1. Location of Sampling Back Side of Captive Power Plant (Western Side) 2.

24 hrs. (10:30 a.m. - 10:30 a.m.) **Duration of Sampling**

B] **METEOROLOGICAL INFORMATION**

Average Temperature (°C) 1. 30.0 2. Average Relative Humidity (%) 64.0 3. Barometric Pressure (mm of Hg) 754.0

4. Smell or Odour No Remarkable Smell

5. Weather Condition Clear sky

RESULTS C1

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	μg/m³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	52.52
2.	Concentration of PM ₁₀	μg/m³	IS 5182 (PART 23) : 2006	80.13
3.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved	8.10
			2007: Sec. 11 (Vol. 11.07) : 2011	
4.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	28.46
			2005 : Sec. 11 (Vol. 11.07) : 2011	

Reviewed By:

· INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY

Technical Manager

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

: 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 Ph. 033 25792889 Laboratory : info@envirocheck.in / envirocheck50@gmail.com . Website : www.envirocheck.in E-mail Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi

: UAE . Qatar . Netherlands Overseas











FORMAT NO: ENV/FM/37

Name of the	:	Shakambha	ri Ispat & Power Lt	td.			Type of Industry		:	Steel & Pov	ver l	Jnit
Industry												
Address	:	Vill. – Madaı	ndih, P.O. – Bartori	a, P.S. – Ne	turia,		Sampling Date		:	23.03.2022	- 2	4.03.2022
		Dist – Purul	ia, (WB)- 723121				Period of Analysis		:	26.03.2022	- 2	8.03.2022
						Ī	Date of Issue		:	30.03.2022		
Sampling Plan	1 &	Procedure :	ENV/SOP/01	Deviation	from the Sampli	ng	Method and Plan	:	No	Type of	:	Ambient Air
										Sample		
Sample ID No	_	: ENV/65/	March/A/XIII		Report No.	:	ENV/65/March/	TR(/	4)/XI	II/21-22		

A] GENERAL INFORMATION

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

2. Duration of Sampling : 24 hrs. (11:00 a.m. – 11:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 32.0 2. Average Relative Humidity (%) : 66.0 3. Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	μg/m³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	52.47
2.	Concentration of PM ₁₀	μg/m³	IS 5182 (PART 23) : 2006	83.07
3.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved	7.89
			2007: Sec. 11 (Vol. 11.07) : 2011	
4.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	29.95
			2005 : Sec. 11 (Vol. 11.07) : 2011	

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY

Technical 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

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Overseas : UAE = Qatar = Netherlands











FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	:	Shakambhari Ispat & Power Ltd.				Type of Industry			ustry	:	Steel & Power Unit	
Address	:	Vill Madandih, P.O Bartoria, P.S					Sampling Date				:	25.03.2022
		N	Neturia, Dist – Purulia (WB)– 723121					Period of Analysis			:	28.03.2022 - 31.03.2022
							Date of Issue				••	02.04.2022
Sampling Plan		:	ENV/SOP/01	Deviation f				:	No	Type of	:	Industrial Effluent Water (Grab)
& Procedure				Sampling N	Лet	hod and				Sample		
				Plan								
Location :	cation : Cooling Water		ng Water	Sample ID : ENV/1			127/March/ F			Report		ENV/1127/March/TR(W)/M/
		cycle Storage		No.		W				No.		21-22
		nk		87								

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH value	4500H+B APHA 23rdEdition, 2017	-	6.86
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	30.0
3.	Oil & Grease	5520 Oil B/D APHA 23 rd Edition, 2017	mg/l	4.50
4.	Chemical Oxygen Demand	5200 COD B/C/D APHA 23 rd Edition, 2017	mg/l	80.0
5.	Biochemical Oxygen Demand for 3 days at 27°C	5210 BOD B APHA 23 rd Edition, 2017	mg/l	12.0
	Demand for 3 days at 27°C			

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indraui Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY

Technical 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

Overseas : UAE • Qatar • Netherlands

Annexure – 8









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/1127A/S/M(i)/21-22

4. Date of sampling : 25.03.2022
5. Reporting Date : 02.04.2022
6. Type of sample : E.S.P Bed Ash
7. Location : CFBC Boiler Ash

Sl. **PARAMETERS METHOD** UNIT **RESULTS** No. EPA 1311: 1992 1. Zinc (Zn) mg./l 6.80 APHA 23rd Ed., 3111 B: 2017 2. Copper (Cu) EPA 1311: 1992 mg./l 4.50 EPA 3050 B, 1996/EPA 200.6: 1998 3. Nickel (Ni) EPA 1311: 1992 2.50 mg./l APHA 23rd Ed., 3111 B: 2017 Lead (Pb) 4. EPA 1311: 1992 2.10 mg./l EPA 3050 B, 1996/EPA 200.9: 1998 5. Cadmium (Cd) EPA 1311: 1992 < 0.002 mg./l

EPA 3050 B, 1996/IS 3050 (Part 46)

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY
Technical 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

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/1127A/S/M(ii)/21-22

4. Date of sampling 5. Reporting Date

: 25.03.2022 02.04.2022

6. Type of sample

Slag

7. Location SMS Furnace Slag

Sl.	<u>PARAMETERS</u>	<u>METHOD</u>	<u>UNIT</u>	RESULTS
<u>No.</u>				
1.	Iron (Fe)	EPA 1311 : 1992 mg./l		6.80
	100	EPA 3050 B, 1996/EPA 200.9: 1998		
2.	Zinc (Zn)	EPA 1311 : 1992	mg./l	6.20
5 5		APHA 23 rd Ed., 3111 B : 2017	11-15-15	
3.	Copper (Cu)	EPA 1311 : 1992 mg./l 5.4		5.40
	No. of the last	EPA 3050 B, 1996/EPA 200.6 : 1998		
4.	Nickel (Ni)	EPA 1311 : 1992	mg./l	2.30
		APHA 23rd Ed., 3111 B: 2017		
5.	Lead (Pb)	EPA 1311 : 1992 mg./l 1.		1.20
		EPA 3050 B, 1996/EPA 200.9: 1998		
6.	Cadmium (Cd)	EPA 1311 : 1992	mg./l	<0.002
(80)	17 70 70 70	EPA 3050 B, 1996/IS 3050 (Part 46)		

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Indrawi Blattacharyya

Approved By:

Dr. SUMIT CHOWDHURY

Technical Manager

H.O.

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

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

Overseas

: UAE - Qatar - Netherlands

Annexure – 9A

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

Annexure – 9B

B.S.C REFRACTORIES AND

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

Shakambhari Ispat & Power Ltd.

Signed and delivered by the above

Name: Vinay Kumar

Degn: Director

Shakambhari Ispat & Power Ltd.

In presence of:

Witness No. 1:

Ayush Agermala Ayush Agermala Synif Rudas

Witness No. 2:

Annexure – 10

PHOTOGRAPHS OF CORPORATE SOCAL RESPONSIBILITY

Painting at Birinchidham Temple









Blanket Distribution





Food Grains Districution











Annexure – 11

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.
	(Address of Regd. office/Head/Office/City Office) ted at Vill- Madandih, P.O. Barteria,
P.S. Neturia, Dist- Puruli	
	(Detailed address of the manufacturing unit)
for a period from	upge 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 commental (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 at 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 Iron	9000 MT	
04			
05	WEST BEN	GAL	
06			
07			
08			
09			
10			
11			
12	- Contains and the second	ASSET IN COLUMN TO SERVICE AND ADDRESS OF THE PARTY OF TH	

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	NIL		KL.
04.	Daily discharge of domestic liquid effluent shall not exceed	5.0		KL
	Daily discharge of mind (in Latin 1 to 1 to 1) in the		NIL	222

06. The Applicant shall discharge liquid effluent to Soak Pit (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.

Cons	on	+ +	~

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		
			A STATE OF THE STA		
	42/				
		CONTROL MANAGEMENT			

- 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 & Pow	Mer	Pro.
------------------------------	-----	------

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	is		exceed	d Frequency of emission sampling		
	G.I., (in mts.)	if any):	WES	m/sec	SPM (mg/Nm³)	CO (%v/v)	AL			
S-I		SEE SEE								
S-2			SEE An	nexure	'A' at	tached	1			10
S-3								1	XI.	
S-4						er ei 7 Aug				
S-5			M							
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	Retary Kilns (03 nes.)
02	Coal & Dol	char 180 MT .	AFBC Boiler
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	an and a second constitution	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	Concentr paramete exceed	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.	0.00	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.,	
WEST	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.
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	Shakar	mbhar1	Ispa	at &	Pewer Lte	i.,	A STATE OF THE STA		
for its unit at	Vill:	Madan	dih,	P. 0:	Barteria	, 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	
		Divini Military		

- 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
 - Processing whereby water gets polluted and the pollutants
 are easily biodegradable
 → 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.	Velocity of gas emission		Concentrations of parameters not to 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								-		
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	7
Delechar	2480 TPM	~ T•	be used in AFBC E	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

SI No.	Stack height	ight system , if any) om GL	Volume Nm³/hr	Velocity of gaseous emission	Concentration	of paramete	rs not to exceed		Frequency of sampling	
	from GL (in mts.)		(m/sec)	(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					
5-10	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: 50-08-00-8/11/0064

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, as amended and Section 21 of the Air (Prevention and Con of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to:	itrol
Mls, Shakambhari Ispat & Power Limited	
	ice)
(hereinafter referred to as Applicant) for its unit located at EXISting unit premises in villi	
Madondih, P.OBartonia, P.S Neturia, Dist: - Puruli	g,
Pin -723121	
for a period from date of issue to 31/07/2023	
0 01 01	

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 President Shares 106 Seal President 106 Seal Shares 106 S

For and on behalf of the State Board

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

Envinenmental Engineer
W. B. Pollution Control Board
Operation & Execution Call

ANNEXURE

Shakambhari Ispat & Power Limited.	
VIII: Madandih, P.O Bastonia, 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	M. S. Billets	1,06,800 TPA
02	TMT bans/wine	1,06,800 TPA 1,80,000 TPA
03		
64		
05	WEST BE	ENGA
06		
07	Market was to be a second as a	
08		
09		
10		
11		1009
12		Na Property

- 102. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.
- 04. Daily discharge of domestic 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.)

Envinenmental Engineer
W. B. Poliution Control Board
Operation & Execution Centrol
Control

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		100000000000000000000000000000000000000
		AND DESCRIPTIONS	BELLEVICA .	
		WESTREN	$(\neg \Delta)$	
		TTEST WELL		
	1000	AND DESCRIPTION OF THE PARTY OF	CONTRACTOR NAMED	
	237 -127			
			- Williams	
			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.)

Environmental Engineer
W. B. Pollution Control Reard
Operation & Execution Call

- 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	Concent	rations o	f parame	ters not to	exceed	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	Sy y			
S-5			100			A				
S-6										
S-7										
S-8								3.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2		
S-9										
S-10										

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

Environmental Engineer
W. B. Pollution Control Beated......
Operation & Execution Call

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

Slag 975 MT/m. Land filling.	Type of waste	Quantity	Treatment	Disposal
	Slag			0 0 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 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 Springed...
Operation & Execution Call

Will: Madandih, P.O. - Bartonia, P.S. - Neturia,
Dit: - Purulia, 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.
- 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. / Env. Engr. / Asst. Env. Engr.)

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

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

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

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:

	(Address of Regd. office/Head/Office/City Office
(hereinafter referred to as Applicant) for its unit located at	existing unit premises in Vill:
	PS-Neturia, Dist-Purulia,
Pin-723124	
42-44	(Detailed address of the manufacturing unit
www.date od 1824.0	6 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 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./Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)
Environmental Engineer

W. B. Pollution Control Board Operation & Execution Cell

ANNEXURE

	is Consent is valid for the manufacture of ;-	
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	WES! BE	NGAL
06	And the second s	No. (No. Chicago Marine Co.)
07	Company of the Compan	THE OWNER OF THE PARTY OF THE P
08		
09		
10		
11	Manual Ecological Ecological	
12		N/SSF
2. The <i>Aj</i>	pplicant shall remain responsible for quantity and quali	ty of liquid effluent and air emissions.
	discharge of industrial liquid effluent shall not exceed.	
4. Daily	discharge of domestic liquid effluent shall not exceed	5.0 KI
5. Daily	discharge of mixed (industrial & domestic) liquid efflue	ent shall not exceedKL
6. The Ap	oplicant shall discharge liquid effluent to settling h Ol (On) nos outlets / outle	fank to municipal dnain place of discharge alls.
7. To brin	ng into any altered or new outlet/outfall or to change the pard and obtain prior permission of the Board in this effe	place of discharge, the Applicant shall have to inform

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

Environmental Engineer

W. B. Pollubon Control Boardinued......

Operation & Execution Cell

-				
CO,	LEV	630	100	100
6		Ser.		33
100		200	-	-

are easily biodegradable

Consent to	MIS. Shakambhari Depat & Power Kimited	
	at Villi Madandih, Po-Bartonia, P.S Neturia	
	Purulia, Pin-72-312-1.	

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Domestic	pH	Between: 5 5 to 9.0 7	Yearly
EXX.	A SOSTABOLS ALVAN	Total Suspended Solids	Not to exceed: 100 mg/l.	0
- 13		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 20 mg/1.	
		Chemical Oxygen Demand	Not to exceed : 250 mg/l.	
		Oil & Grease	Not to exceed: 10 mg/1.	10
				20
				The second
		CALL ON THE KI		
		W - S C - N	L - 12 L	
		CONTRACTOR OF THE PERSON NAMED IN	and the second second	
		AND AND AND ADDRESS OF THE PARTY OF THE PART		
- 3				
- 8	18			
		THE PERSON NAMED IN		
		Victoria de la constanti de la	83 (VEX.197)	
				-

09.	The Applicant falls in the	977 and Rules made thereun	
10.	Daily water consumption for the follow	ving purposes should not exce	ed:-
	 Industrial cooling, spraying in mine (Water used for gardening should b 		
9	Domestic purpose	8	- 5.0 KL
	 Processing whereby water gets poll 	uted and the pollutants	

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.)
Environmental Engineer
W. R. Pollution Control

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

Consent to M.S. Shakambhari Ispat & Power Limited

for its unit at VIII: Madandih, RO - Bantonia, R.S. - Neturia,

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;

Table-II

Stack No.	Stack height from	Stack attached to (sources and control system.	Volume Nm³/hr.	Velocity of gas emission	of gas			Frequency of emission sampling		
	GI., (in mts.)	if any);	WE:	m/sec	SPM (mg/Nm³)	(%v/i)	AL			
S-I	30 m existing	Ol no. Induction (25 Tou/be	Furnace tch)with		50	1			_	
S-2		bilter)	eD(bag		A 1820 E	A STATE OF	-			
S-3								1		
S-4	123	No.	TOTAL I		De Like	EN E	SSE T			
S-5			1						1 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 Ispat & Power Limited.

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

Dist: - Purulia, Pia - 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		1X25 MT/heat Induction.
02			The state of the s
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
Slag 825 MT/Mouth - la	ad billing.

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.)	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. Engr. / Asst. Env. Hingr.) Environmental Engineer

Consent to MIs. Shakambhaa's Ispal & Power Kimitel.

for its unit at VIII: Madandih, Ro-Bastonia, P.S-Netnaia,
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.
- 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.
- 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.

(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 Furnacemanufacturing of M.S.Billets-4700 MT/Month.

Environmental Engineer
West Bengal Pollution Control Board
Environmental Engineer

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. Shakam Bhari Ispat & Power Lfd. (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 Xeluria, 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
trial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at an 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.

Patris Shows a day of the state of the state

For and on behalf of the State Board

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

Consent to

ANNEXURE

Consent to MIS. Shakambhari Ispat & Power Hol.
for its unit at VIII: Madaulih, P.O Bartonia, P.S Neturia,
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	M. S. Billets	9700 MT/Moute
02	Ferro Manganese	2050 MT/Moult
03	Silico Manganese	2210 MT/Moul4.
04	Account to the second	22101111110004.
05		IGAL
06	The state of the s	
07	Access to the second se	established and office and
08	THE REAL PROPERTY.	and the same of th
09		
10	The state of the s	
11	Carried Land	
12	And I have been	

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

- 05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceedKL.
- 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.

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

Environmental Engineer

A. B. Pollution Control Board

Consent to Mfs. Shakambhari Fspat & Power LH.
for its unit at Villi Madandih, P.O. Bartonia, P.S Netwig
Dist-Purulia, Pin - 723121

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Domestic		Between: 5.5 to 9.0	Yearly
		Total Suspended Solids	Not to exceed: [O ang/1.	carry
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/1.	
		Chemical Oxygen Demand	Not to exceed: 250 mg/1.	F
14		Oil & Grease	Not to exceed: 10 mg/1.	. 380
	100	A STATE OF THE STA	A.	
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** 8	The state of the s	. A A A A A A A A A A A A A A A A A A A	Activities by	14
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W		State from 1200 F They Bress & C	E STEEL S	
			No. of Section 1	
		APON ELEKA A CAPATRICA CALA	Contract and Acceptance	
		three of any comment of the state of the second	2.00 KC 120 K 4/4/2012	
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			VALUE OF THE PROPERTY OF THE P	
		the same of the sa	Let a San Allery H.	
		The second of the second second	Ap 15 A 1 1 Mar	
1107-		The state of the s	56 (A40) No. 107	

- 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',000 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.

Consent to MIS. Shakambhani Ispat & Power Utol.

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.
- 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 Annexue-I

	1	Francis casa anno in so		Tab					- awasad	Frequency
Stack No.	Stack Stack attached height to (sources and from control system.	Volume Velocity -Nm³/hr. of gas emission		Concentrations of parameters not to exceed				of emission sampling		
70	GI., (in mts.)	if any):	WE:	Dm/sec	SPM (mg/Nm³)	(%v/v)				
S-I	/	- F272			BOYSH THEY'S	SACRESAN SPECIAL				
S-2	Name of the second		STATE OF THE STATE	III THE			Distance of the same of the sa			
S-3	122							1		
S-4		b				MAI				
S-5		5			\searrow					
S-6		=		4		/	/			
S-7						*		/		
S-8	*		150							
S-9		- (g	à	140						
5-10						V.				2 2 2 2

Env. Engr. / Asst. Env. Engr.)
Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

(5)	
Consent to MLS. Shakambhani Ispat & Power Hol.	Vanorino de
for its unit at Villi Madaudih, P.OBartonia, P.S Xetunia	
Dist-Purulia, Pin-723121.	>
<u> </u>	•••••

- 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	70		4
03			
04		260 G S H H 2 S 1 K 2 S 1 K 2	2 Howe.
05		.8	

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

Type of waste	Quantity	Treatment	Disposal
\	Market Land	ATEN OF THE STREET	30 5
. `	Aller Constant Constant	and State Con-	al.

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
Night Time (05 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 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
- 22. 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.)

Environmental Engineer W. B. Pollution Control Board 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)

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.)	t L		Velocity of gas emission m/sec	Concentration of parameters not to exceed			Frequency of emission sampling
	(m mes.)			mysec _	PM (mg/Nm ³)	CO (% v/v)		
S-1	30.0 m (common)	Induction Furnaces (2x25Ton/batch) provided with Individual APCD(Bag Filer)			50	1		Quarterly
S-2	30.0 m	Individual stack, individual APCD -Bag Filter provided to Submerged Electric Arc Furnaces(2x9MVA)	9		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.

	2	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		Edite Illinia

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.
- 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 Espett & Power Kinsit-O.
(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)
or a period from date of 188 12 10 31 07 12023
o 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
he 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 his 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 Mls. Shakambani Tepat & Power Kimited
for its unit at Villi Madaudih, P.O Bantonia, P.S Neturia,
Oist-Purmlia, 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	TMT bars/wines	1, 20, 100 TPA
02	(Rolling Mill-4007PD)	
03		
04		
05	WEST BE	NGAL
06		
07		
08		
09		
10		
11		
12		7/37

02.	The Applicant shall remain responsib	le for	quantity and	d quality	of liqu	nd effluent and	air emissions.
-----	--------------------------------------	--------	--------------	-----------	---------	-----------------	----------------

- 03. Daily discharge of industrial liquid effluent shall not exceed necycled KL

- 06. The Applicant shall discharge liquid effluent to Septic tank to Soakpit (place of discharge) through 01 (one) nos. outlets / outfalls.
- 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.)

Environmental Engineer

W. B. Pollution Control Roard Control & Control Contro

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60	2899	8

Consent to Mls. Shakambari Pepul & Power Limited	
for its unit at VIII: Madandih, P.O Bastonia, P.S Neturia,	
Dist-Purulia, Pin-723121	

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
ÓI	Mixed	pH	Between: 5.5 to 9.0	Yearly
-715D-W		Total Suspended Solids	Not to exceed: 10 omg/1.	0
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 20 mg/l.	
36		Chemical Oxygen Demand	Not to exceed : 2 0 mg/l.	
		Oil & Grease	Not to exceed: 10 mg/1.	
196	\			
		I II I II - CO wife I - I - I	∧ I	
		WESTBEN	TAL	

10. Daily water consumption for the following purposes 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 Limited
for its unit at VIII: Madaudih, Ro.-Bastania, 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.	o (sources and Nm³/hr. of gas	Velocity of gas emission						Frequency of emission sampling
	GI., (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						7		
S-4						y A				
S-5		9								
S-6										
S-7										
S-8				7577	7					
S-9										
S-10										

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

			(5)		
Consent to MLS.	Shakami	bari Is	pat R	Power	L d i

for its unit at VIII: Madandih, Ro. - Bartonia, 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		N.	
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) L _{eq}
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.)

Environmental Engineer

W. B. Pollution Control Borcdntinued......

Operation & Execution Control Cont

Consent to Mls. Shakambari Ispat & Power dimited	*************
for its unit at Vill: Madandih. P.O 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.
- 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

(Member Secretary Chief Engr. Sr. 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 KILMS are provided with WHRBS (10TPH 2 64 TPH)

ANNEXURE

Consent to MS. Shakambhari Ispat & Power Ltd.
for its unit at Vill Madandih, P.O Bantonia, 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	AND DESCRIPTION OF THE PERSON	
07		
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 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:	Tadandih, P.O Barte	onia, P.SNeturia,	
Dist-Puru	lia, Pin-723121		
	Table-I		
			Frequency

Nature of effluent	Parameters	Standard	Frequency of effluent sampling
Donnestic	pH	Between: Cocho Sun	
			Yearly
	Biochemical Oxygen Demand (3day at 27°C)		
	Chemical Oxygen Demand		
	On the Greate	Not to exceed: 0 mg/1.	1 6
	A CONTRACTOR OF THE PERSON OF		
		The state of the state of the state of	
			model 1 mm
	LINCT DELL	0 4 1	7.01-61-11
	WESTBEN		
	111111		
		Company of the Compan	
			Con Table
	WENTERS TO STATE OF THE PARTY O	THE RESIDENCE OF THE PARTY OF T	
	effluent	effluent	effluent Dewellie pH Total Suspended Solids Biochemical Oxygen Demand (3day at 27°C) Chemical Oxygen Demand Not to exceed: 30 mg/1. Not to exceed: 30 mg/1. Not to exceed: 30 mg/1.

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. Shakambhazi Ispat & Power Utol.
for its unit at Vill: - Madendih, P.O Bertoria, 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.				f parame	ters not	Frequency of emission sampling	
	G.I., (in mts.)	if any):	WE		SPM (mg/Nm³)	CO (%v/v)	AL			
S-I		-		See	Ann	exu	re-	I-		
S-2	1									3
S-3								1	,	
S-4							STATE OF THE PARTY			
S-5										
S-6										
S-7					FILE					
S-8						Sec. 19				
S-9										
S-10					-Mari					

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

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:-

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
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/Mould		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.)

Consent to MS. Shakambhasi Ispat & Power Utal.	
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 sys-
- 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.
- 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.
- 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. Howeli 27

Additional Conditions See Annexure. IT

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

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

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.)	nt G.L	Volume Nm³/hr	Velocity of gas emission m/sec	Concentration of parameters not to exceed			Frequency of emission 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)		-				
-	i	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

ACCURATION OF THE PROPERTY OF
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 Shakambhani Ispat & Power Hd.
(Address of Regd. office/Head/Office/City Office)
(hereinafter referred to as Applicant) for its unit located at existing premises Vill. Madandih
P.O Bartonia, P.S Neturia, Dist-Purulia, Pin-723121
for a period from date of issue to 3107/2023
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.

Concording Concording

For and on behalf of the State Board

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

ANNEXURE

Consent to Mle Shakambhari Ispat & Power Ltd.
for its unit at existing promises 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	Ferro Manganese on	2632 MT/Mouth
02	Silico Manganese or	2632 MT Mouth
03	Ferro Chrome on	2632 MT/Monta
04	Ferro Silicon or	2632 MT/ Mouth
05	Pig Iron on in combination of an	1 2632 MT/ Mouth
06	And the last of the state of th	The second secon
07		
08	No. of the last of	
09		
10		
11		
12	No a Notice of the	

02.	The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.	8
03.	Daily discharge of industrial liquid effluent shall not exceed necycles	KL.
04.	Daily discharge of domestic liquid effluent shall not exceed	KL
05.	Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed	KL
06.	The Applicant shall discharge liquid effluent to Septic Tank ofter treatment (place of through	discharge)
07.	To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall hav	e to inforn

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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-	U	02	10

MI (3)	
Consent to MIs. Shakambhari Ispat & Power Ltd.	**********
for its unit at existing premises VIII. Madandih, Po-Bartonia,	
P.S Aleturia, Dist-Purulia, Pin-723121	

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Mixed	pH	Between: 55 to 9.0	Yearly
- 40		Total Suspended Solids	Not to exceed: 10 Omg/1.	10019
8		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/1.	
		Chemical Oxygen Demand	Not to exceed: 250 mg/l.	
		Oil & Grease	Not to exceed: /o mg/1.	94
14		The state of the s		
			Z=====================================	
			English same	
		N. M. H. CONT. Co., Marrie Land, Green In.	1 APRIL 1/A B	
		MINISTER	117/41	
		W. W. Harri V.S. II	The state of the s	
		Market Stories Weavalders and Table 1	DAMESTIC STATES AND A STATE OF THE PARTY OF	
Lind)		MANUFACTURE OF STREET THE STREET	THE RESERVE THE PARTY OF THE PA	
		De CONTROL		
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			State	
		The same of the sa	CHICA CONTRACTOR OF THE PARTY O	
	The second		THE REPORT OF THE PROPERTY AND THE PROPE	
				- was
			WER AND ASSESSMENT OF THE PARTY	

09.	The Applicant falls in the	Red .		Category of the Water (Prevention		
	and Control of Pollution) Cess Act, 1977	and Rules	made thereunder	and the Applica	nt shall comply with the	
	provisions of the said Act and Rules made	thereunder	THE PARTY		82.50	

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

 - Domestic purpose
 Z.00 KI

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

 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. / Bnv. Engr. / Asst. Env. Engr.)

Sr. Environmental Engines W. B. Pollution Control Bath

Operation & Execution Cas

Continued.....

Consent to Mls. Shakambhari Ispat & Power Hd
for its unit at existing primises VIII. Madandih, P.O Bartonia,
P.S Neturia 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 Annexure 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 party of Street, or								
S-2						Mestaly.	State of the	esti		36
S-3								1	E	
S-4						911 AU 97 AU				
S-5		11	1							
S-6		\$1.9	B							
S-7						R				
S-8	*		8:	1 1111						
S-9				Un-				AV.S		
S-10		The second								

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

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

Continued......

No.		(5)	
Consent to MIC.	Shakambhari	Ispat & Power	en 112

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 but ming operation where the fuer is used
02			
03			
04			
05		10	

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

oe of waste Quantity	Treatment	Disposal
FERSING WELL STORY OF THE SECURITY OF	AN ARREST LOS CONTRACTOR AND A SECOND	
And the second s	A COMPANY AND SERVICE AND SERV	

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}
ay Time (06 a.m. to 99 p.m.)	75
ight 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.
- 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 Engs./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

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

Continued.....

Consent to MIS. Shakambhari Ispat & Power Ltd.
for its unit at existing premises Vill. Madardih, P.O Bortonia,
P.S Neturia, Diet - Punulia, 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.
- 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 - Til

(Member Secretary/Chief Engr. S. Sent Rigg: / 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.	Stack height from G.L (in mts.)	Stack attached to (sources and control system, if any)	Volume Nm³/hr		Concentration of parameters not to exceed		1 20	Frequency of emission sampling
				PM (mg/Nm ³)	CO (% v/v)			
3	30.0 m	Individual stack, individual APCD –Bag Filter provided to Submerged Electric Arc Furnaces(2x9MVA)	*	-	50	I		Quarterly
2	10.50 m	D.G.Sct(500 KVA) with canopy system	2		150			Quarterly

Sr. Environmental Engineer West Bengal Pollution Control Board

Sr. Environmental Engineer
W. B. Pollution 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 3050 MT/month	Treatment	Disposal
lico Manganese slag	2210 MT/month	Δ.	Re-use in process
erro chrome slag	3050 MT/month	i i	Land filling
erro Silicon slag	263 MT/month 1315 MT/month 88 MT/month	140	to be TSDF facility
Pig Iron slag		X (4)	Re-use in Induction Furnace
ust from SUAF de-dusting unit		(4)	To be sold to cement mfg unit
		-0	Reused in process

Sr. Environmental Engineer West Bengal Pollution Control Board

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W. B. Pollution Control Boars

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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 Control Board
Operation & Execution Cell

Annexure – 12A











TEST REPORT

1.	Name of the	Industry / Project		: Shakambhari Ispa	t & Power Limited.	20		
2.	Address			: Vill Madandih,	P.O - Bartoria, P.S - N	leturia, District - Purulia,		
				Pin - 723121				
3.	Type of Indu	istry		: Steel & Power Unit	t and the second			
4.	Sampling Pl	an & Procedure		: ENV/SOP/01				
5.		om the Sampling Method & Plan	1	: No	20 20			
6.	Type of Sam	ple		: Work Zone Noise				
7.	Sample ID			: 376/EC/M/N				
8.	Report ID			376/EC/M/N/I/21	-22			
9.	Date of Stud	y		: 23/03/2022				
10.	Reporting D	ate		: 31/03/2022				
11. Method No.				: IS: 9989 - 1981				
12. Time of Duration of Noise				: 20 Minutes				
13.	Height from	Ground Level		: 4 feet				
14.	Sample Mon	itoring by		Mr. Biswajit Dey				
		RESULT OF NO	ISE LE	VEL STUDY		Time :12:00 - 12:20 P.M		
				<u>DAY TIME</u>				
1. Lo	cation : Near	Store (Rolling Mill Division)						
Sl.	Unit	Minimum		Maximum	Leq	Remarks		
No.		dB(A)		dB(A)	dB(A)			
01.		80.2		82.6	81.56	East Side		
02.	dB(A)	81.4	83.9		82.83	West Side		
03.	dB(A)	83.5		86.2	85.06	North Side		
04.	dB(A)	80.2		82.7	81.63	South Side		
				Average dB(A) Leq	82.77			

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

Email: info@envirocheck.org /envirocheck50@gmail.com / Website: www.envirocheck.org

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









TEST REPORT

1.	Name of the	Industry / Project	:	Shakambhari Ispat	t & Power Limited.	200		
2.	Address		:	Vill Madandih,	P.O - Bartoria, P.S - N	Neturia, District - Purulia,		
				Pin - 723121				
3.	Type of Indi	ustry	:	Steel & Power Unit		10		
4.	Sampling Pl	an & Procedure	:	ENV/SOP/01				
5.	Deviation fr	om the Sampling Method & Plan	:	No				
6.	Type of Sam	ple	:	Work Zone Noise				
7.	Sample ID		:	376/EC/M/N				
8.	Report ID			376/EC/M/N/II/2:	1-22			
9.	Date of Stud	y	:	23/03/2022				
10.	Reporting D	ate	:	31/03/2022				
11. Method No.			:	: IS: 9989 - 1981				
12. Time of Duration of Noise			:	: 20 Minutes				
13.	Height from	Ground Level	:	: 4 feet				
14.	Sample Mon	nitoring by		Mr. Biswajit Dey				
		RESULT OF NOIS	SE LEV	EL STUDY		Time :12:30 - 12:50 P.M		
				<u>DAY TIME</u>				
2. Lo	cation : Near	Control Room of SMS Division						
Sl.	Unit	Minimum		Maximum	Leq	Remarks		
No.		dB(A)		dB(A)	dB(A)			
01.	dB(A)	79.4	82.5		81.22	East Side		
02.	dB(A)	80.6	82.9		81.90	West Side		
03.	dB(A)	81.4		84.2	83.02	North Side		
04.	dB(A)	78.7		82.9	81.29	South Side		
			A	verage dB(A) Leq	81.85			

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

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TEST REPORT

1.	1. Name of the Industry / Project				Shakambhari Ispat	& Power Limited.	27.00		
2.	Address			:	Vill Madandih,	P.O - Bartoria, P.S - N	eturia, District - Purulia,		
					Pin - 723121				
3.	Type of Indu	ıstry		:	Steel & Power Unit				
4.	Sampling Pl	an & Procedure		:	ENV/SOP/01		7		
5.	Deviation fr	om the Sampling Method & Pl	an	:	No	20.00			
6.	Type of Sam	ple			Work Zone Noise				
7.	Sample ID				376/EC/M/N				
8.	Report ID				376/EC/M/N/III/2	1-22			
9.	Date of Stud	y		:	23/03/2022				
10.	10. Reporting Date				31/03/2022				
11.	11. Method No.			:	: IS: 9989 - 1981				
12.	12. Time of Duration of Noise			: 20 Minutes					
13.	Height from	Ground Level		: 4 feet					
14.	Sample Mon	nitoring by			Mr. Biswajit Dey				
		RESULT OF	NOISE LE	SE LEVEL STUDY Time: 1:00 – 1:20 P.M					
					DAY TIME				
3. Lo	cation : In fro	ont of MCO Control Room (DRI	- 350 TI	PD	X 2)				
Sl.	Unit	Minimum			Maximum	Leq	Remarks		
No.		dB(A)			dB(A)	dB(A)			
01.	dB(A)	76.5			80.4	78.87	East Side		
02.	dB(A)	78.3	83.2		83.2	81.41	West Side		
03.	dB(A)	77.4			81.9	80.21	North Side		
04.	dB(A)	76.2			82.8	80.65	South Side		
				A	verage dB(A) Leq	80.28			

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			
2.	Address				Vill Madandih,	P.O - Bartoria, P.S - No	eturia, District - Purulia,		
					Pin - 723121		10		
3.	Type of Indu	ıstry			Steel & Power Unit				
4.	Sampling Pl	an & Procedure		:	ENV/SOP/01		7		
5.	Deviation fr	om the Sampling Method & Pla	an	:	No	2.2			
6.	Type of Sam	ple		:	Work Zone Noise				
7.	Sample ID			:	376/EC/M/N				
8.	Report ID				376/EC/M/N/IV/2	1-22			
9.	9. Date of Study			:	23/03/2022				
10.	10. Reporting Date				31/03/2022				
11.	11. Method No.			:	IS: 9989 - 1981				
12.	12. Time of Duration of Noise			:	: 20 Minutes				
13.	Height from	Ground Level		:	: 4 feet				
14.	Sample Mon	itoring by			Mr. Biswajit Dey				
		RESULT OF N	NOISE LE	LEVEL STUDY Time :1:30 - 1:50P.M			Time :1:30 - 1:50P.M		
					DAY TIME				
4. Lo	cation : In be	tween CPP - 12 MW and DRI -	100 TPI) A	rea				
Sl.	Unit	Minimum			Maximum	Leq	Remarks		
No.		dB(A)		dB(A)		dB(A)			
01.	dB(A)	78.4	80.6		80.6	79.64	East Side		
02.	dB(A)	77.3	81.2		81.2	79.67	West Side		
03.	dB(A)	78.4	82.3		82.3	80.77	North Side		
04.	dB(A)	80.6			82.4	81.59	South Side		
	Average dB(A) Leq 80.41								

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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TEST REPORT

1.	1. Name of the Industry / Project			:	: Shakambhari Ispat & Power Limited.				
2.	Address			:	Vill Madandih,	P.O - Bartoria, P.S - N	leturia, District - Purulia,		
					Pin - 723121		1.00		
3.	Type of Indu	ıstry		:	Steel & Power Unit				
4.	Sampling Pl	an & Procedure		:	ENV/SOP/01				
5.	Deviation fr	om the Sampling Method & P	lan	:	No	27.20			
6.	Type of Sam	ple		:	Work Zone Noise				
7.	Sample ID			:	376/EC/M/N				
8.	Report ID				376/EC/M/N/V/21	-22			
9.	Date of Stud	y		:	23/03/2022				
10.	0. Reporting Date			:	31/03/2022				
11.	11. Method No.			:	: IS: 9989 - 1981				
12.	Time of Dur	ation of Noise		:	: 20 Minutes				
13.	Height from	Ground Level		:	: 4 feet				
14.	Sample Mon	itoring by			Mr. Biswajit Dey				
		RESULT OF	NOISE LE	EVI	EL STUDY		Time :2:00 - 2:20 P.M		
					<u>DAY TIME</u>				
5. Lo	cation : Near	SAF Control Room (Ferro All	oy Divisio	on)					
Sl.	Unit	Minimum			Maximum	Leq	Remarks		
No.		dB(A)			dB(A)	dB(A)			
01.		81.2			85.6	83.93	East Side		
02.	dB(A)	80.3		84.9		83.18	West Side		
03.	dB(A)	81.8		84.5		83.36	North Side		
04.	dB(A)	80.2			83.7	82.29	South Side		
	Average dB(A) Leq 83.19								

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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Annexure – 12B









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: 376/EC/M/N/I/21-22

Sampling Locations:	Near Security Gate – Southern Side	Date of Study :	23/03/2022
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	68.5	70.9	69.86	
7:00 AM to 8:00 AM	70.9	73.4	72.33	1
8:00 AM to 9:00 AM	71.3	72.5	71.94	
9:00 AM to 10:00 AM	72.6	74.8	73.84	
10:00 AM to 11:00 AM	73.9	77.2	75.86	
11:00 AM to 12:00 PM	72.3	75.8	74.39	
12:00 PM to 1:00 PM	41.0	77.9	76.37	7
1:00 PM to 2:00 PM	71.2	74.5	73.16	73.49
2:00 PM to 3:00 PM	70.4	74.3	72.77	7
3:00 PM to 4:00 PM	74.2	76.7	75.63	1
4:00 PM to 5:00 PM	71.3	75.4	73.82	1
5:00 PM to 6:00 PM	72.3	77.2	75.41	
6:00 PM to 7:00 PM	68.2	75.9	73.57	
7:00 PM to 8:00 PM	67.5	72.3	70.53	
8:00 PM to 9:00 PM	66.2	70.4	68.79	7
9:00 PM to 10:00 PM	64.8	67.9	66.62	

Date of Study:	23/03/2022 to 24/03/2022	Night time :	10 PM to 6 AM
Date of Study.	23/03/2022 10 24/03/2022	Might time.	TO LIMITO O WIM

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	58.1	62.7	60.98	61.59
2:00 AM to 3:00 AM	57.9	63.5	61.55	
3:00 AM to 4:00 AM	56.8	64.6	62.26	
4:00 AM to 5:00 AM	60.2	64.1	62.57]
5:00 AM to 6:00 AM	62.5	64.6	63.68	

L_{min}: Minimum Noise level

L_{max} :Maximum Noise level

L_{eq}: Equivalent sound energy

Compiled by : (Signature) Dr. Ajoy Paul

Envirocheck Seal Date: 25/03/2022



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

Overseas: UAE * Qatar * Netherlands









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: 376/EC/M/N/II/21-22

Sampling Locations:	Madandih Village (0.5 km from Plant) – Eastern Side	Date of Study :	23/03/2022
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	40.0	50.8	48.14	
7:00 AM to 8:00 AM	42.5	51.6	49.09	
8:00 AM to 9:00 AM	43.8	51.0	48.75	1
9:00 AM to 10:00 AM	46.4	55.9	53.35	
10:00 AM to 11:00 AM	49.4	56.3	54.10	
11:00 AM to 12:00 PM	48.1	55.3	53.05	
12:00 PM to 1:00 PM	51.2	58.3	56.06	
1:00 PM to 2:00 PM	52.1	59.6	57.30	54.09
2:00 PM to 3:00 PM	53.5	59.2	57.22	
3:00 PM to 4:00 PM	52.8	59.6	57.41	1
4:00 PM to 5:00 PM	51.6	59.2	56.89	
5:00 PM to 6:00 PM	50.9	58.3	56.02	1
6:00 PM to 7:00 PM	43.7	55.8	53.05	
7:00 PM to 8:00 PM	40.7	50.6	48.01	
8:00 PM to 9:00 PM	41.9	44.7	42.98	
9:00 PM to 10:00 PM	41.5	43.6	42.68	

Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	40.2	43.5	42.16	
11:00 PM to 12:00 AM	40.0	42.8	41.62	
12:00 AM to 1:00 AM	39.4	41.6	40.64	
1:00 AM to 2:00 AM	38.6	40.2	39.47	44.33
2:00 AM to 3:00 AM	40.6	41.9	41.30	
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	
5:00 AM to 6:00 AM	45.9	51.2	49.31	1

L_{min}: Minimum Noise level

L_{max}: Maximum Noise level

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

Compiled by : (Signature) Dr. Ajoy Paul

Envirocheck Seal Date: 25/03/2022

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 (033-25792891/25497490, Fax: 033-25299

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

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

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Overseas: - UAE - Qatar - Netherlands









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: 376/EC/M/N/III/21-22

Sampling Locations:	Near Power Plant Control Room – Western Side	Date of Study :	23/03/2022
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	62.5	70.6	68.22	
7:00 AM to 8:00 AM	63.8	72.6	70.13	
8:00 AM to 9:00 AM	64.6	73.5	71.02	
9:00 AM to 10:00 AM	65.9	73.8	71.44	
10:00 AM to 11:00 AM	67.2	75.5	73.09	
11:00 AM to 12:00 PM	68.2	74.6	72.49	
12:00 PM to 1:00 PM	68.5	75.7	73.45	
1:00 PM to 2:00 PM	69.1	74.9	72.90	71.69
2:00 PM to 3:00 PM	67.9	78.7	76.04	
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	
5:00 PM to 6:00 PM	64.7	72.1	69.82	
6:00 PM to 7:00 PM	64.9	68.6	65.96	
7:00 PM to 8:00 PM	63.9	70.8	65.15	
8:00 PM to 9:00 PM	65.1	73.5	71.08	
9:00 PM to 10:00 PM	63.3	71.2	68.84	

Date of Study: 23/03/2022 to 24/03/2022 Night	ht 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	62.5	66.2	64.73	
11:00 PM to 12:00 AM	60.2	64.5	62.86	
12:00 AM to 1:00 AM	60.5	69.9	67.36	
1:00 AM to 2:00 AM	59.9	64.3	62.63	66.73
2:00 AM to 3:00 AM	59.1	62.5	61.12	
3:00 AM to 4:00 AM	60.9	68.7	66.36	
4:00 AM to 5:00 AM	65.8	71.2	69.29	
5:00 AM to 6:00 AM	66.9	72.5	70.55	

L_{min}: Minimum Noise level

L_{max}: Maximum Noise level

L_{eq}: Equivalent sound energy

Compiled by : (Signature)

Dr. Ajoy Paul Date: 25/03/2022

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

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Overseas: • UAE • Qatar • Netherlands

Envirocheck Seal









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: 376/EC/M/N/IV/21-22

Sampling Locations:	Near Laboratory Building (SMS Division) – Northern Side	Date of Study :	23/03/2022
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	62.8	69.9	67.66	
7:00 AM to 8:00 AM	63.6	70.2	68.05	
8:00 AM to 9:00 AM	64.8	71.4	69.25	
9:00 AM to 10:00 AM	67.9	78.6	75.94	
10:00 AM to 11:00 AM	66.1	73.8	71.47	
11:00 AM to 12:00 PM	67.2	76.9	74.33	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	70.66
2:00 PM to 3:00 PM	63.9	70.8	65.15	
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	
6:00 PM to 7:00 PM	66.1	70.2	67.16	
7:00 PM to 8:00 PM	67.5	71.6	69.50	
8:00 PM to 9:00 PM	64.1	68.5	66.83]
9:00 PM to 10:00 PM	63.6	66.4	65.22	

Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	62.8	64.6	63.79	
11:00 PM to 12:00 AM	60.6	63.5	62.29	
12:00 AM to 1:00 AM	60.2	62.8	61.69	
1:00 AM to 2:00 AM	60.5	66.8	64.70	64.28
2:00 AM to 3:00 AM	59.9	62.5	61.39	
3:00 AM to 4:00 AM	58.4	61.7	60.36	
4:00 AM to 5:00 AM	62.5	68.6	66.54	
5:00 AM to 6:00 AM	64.7	69.5	67.73	

L_{min}: Minimum Noise level

L_{eq}: Equivalent sound energy

Compiled by : (Signature)

Date: 25/03/2022

Envirocheck Seal

Dr. Ajoy Paul



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

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

Annexure – 13

DATE: 08/11/2021

Health checkup details of Employees

	DATE: O GITTI							July March			PARAM	ETERS					
Sl. No.	Employee's Name (Mr.)	Father's name (Shri)	Designatio n	D.O.B.	Weight	PR	ВР	CBG	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	Ren
1	Birendra Varma	Laxmi Narayan	Fitter	01-01-1979	56		130/80		"B"	Positive	Normal		Normal	Distance 6/6	N6 Near	Normal	
2	Pankaj Kumar Yadav	Ram Shran Yadav	Welder	01-01-1995	65	92	108/80	99 mg/dl	"B"	Positive							
3	Ashish Pal	Lochan Pal	Electrician	02-03-1987	61	90	130/80	409 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 with glass +1.50 D(BE)	Normal	
4	Sanjay Halder	Maharaj Halder	Electrician	25-11-1982	67	74	100/80	96 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
5	Raghunath Sutradhar	Late Bijay Chandra Sutradhar	Senior Electrician	30-07-1974	65	96	110/90	128 mg/dl	"AB"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal	
6	Prasanta Karmakar	Late Monindra Karmakar	Senior Electrician	04-09-1983	79	105	140/90	141 mg/dl	"O"	Negative	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
7	Jhantu Mandal	Durjodhan Mandal	Junior Electrician	14-05-1996	65	86	130/80	107 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
8	Ranjeet Kumar	Hare Krishan Singh	Electrician	10-02-1992	69	104	130/90	260 mg/dl	"O"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.00) BE	Normal	
9	Sanjay Kumar	Nokhe Lal Bhagat	Electrician	15-05-1980	76	113	136/97		"A"	Positive	Normal		Normal	Distance 6/6	N6 Near	Normal	
10	Nitish Mukherjee	Bidhubhusan Mukherjee	Senior Electrician	14-02-1990	70		110/70	102 mg/dl	"0"	Positive			Normal	Distance 6/6	N6 Near	Normal	
11	Balvir Singh	Ranjit Singh	Junior Electrician	31-12-1987	69	80	120/90	97 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	Near BE=+1.50D	Normal	
12	Loknath Gorai	Ananda Gorai	Junior Fitter	02-01-1986	58		120/80	125 mg/dl	"0"	Positive	Normal		1	Distance 6/9.(+1.00) BE	N6 Near	Normal	
13	Vijay Kumar Sharma	Raj Kishor Shrma	Assistant Fitter	01-01-1985	78	99	140/90	119 mg/dl	"B"	Negative			Normal	Distance 6/6	N6 Near	Normal	
14	Pappu Kumar Singh	Amar Singh	Fitter	01-01-1977	79	84	130/80	109 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
15	Arjun Kumar Singh	Parma Singh	Fitter	01-01-1989	67	118	130/90	120 mg/dl	"A"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal	
16	Anil Kumar Singh	Ramsaran Mahato	LAB Assistant	22-12-1975	68	80	130/70	95 mg/dl	"A"	Negative			Normal	Distance 6/6	N6 Near	Normal	
17	Uday Nonia	RAMSWARUP NONIA	Junior Electrician	25-05-1984	57	84	117/76	104 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	Near=+1.00(BE)	Normal	
18	Anant Kumar	Umapati Singh	Fitter	10-06-1986	59		110/70	119 mg/dl	"A"	Positive	Normal		Normal			1718	
19	Khaleda Sk.	MUSLIM	Operator	01-01-1982	66	109	136/70	127 mg/dl	"A"	Positive		Y N		Distance 6/6	N6 Near	Normal	
20	Taraknath Gorai	Ananda Gorai	Helper	15-09-1979	81	74	140/80	119 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	No Near	↑ Normal	

DATE: 08/1/2021

Health checkup details of Employees

	DATE: SOLITION		Designatio	0	A Contract		Assessment Salay	week to be come			PARAN	METERS					
S1. No.	Employee's Name (Mr.)	Father's name (Shri)	Designatio n	D.O.B.	Weight	PR	ВР	СВС	Blood		ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	Ret
21	Papinder Singh	TIGER GURU SHARAN SINGH	Technician	26-10-1993	56		110/70	119 mg/dl	"B"	Positive				6/9 Distance, (BE=- 0.75D)6/6 with glass	N6 BE Near	Normal	
22	Bikash Kumar Dutta	MANIK CHANDRA DUTTA	Helper	01-01-1987	50	87	109/74	103 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
23	Gautam Goswami	Bipul Goswami	Operator	11-11-1987	79	76	140/90	148 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
24	Rakesh Kumar	Samsar Chand	Senior Operator	01-04-1976	59	90	120/80	145 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
25	Rajiv Kumar Sharma	Kailash Sharma	Operator	01-01-1985	61	67	120/80	96 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6		Normal	
26	Gautam Ram	PANCHANAND RAM	Operator	01-01-1991	82	111	144/90	109 mg/dl	"B"	Positive			Normal	Distance 6/6	BE	Normal	
27	Sujit Paramanik	GANESH CHANDRA PARAMANIK	Assistant Fitter	16-02-1980	64	96	130/90	90 mg/dl	"A"	Positive	Normal		Normal	Distance 6/6	No with glass(+1.50D	Normal	
28	Satish Kumar	Gulabchand	CNC Operator	01-07-1992	82	104	150/100	151 mg/dl	"A"	Positive			Normal	Distance 6/6	No Near	Normal	AM
29	Md Sabir Ansari	Ramparash Ray	Operator	01-01-1976	58	90	120/90	107 mg/dl	"A"	Positive	Normal		Normal				
30	Ashim Dey	Late Amar Dey	Senior Operator	25-02-1991	56		110/80	119 mg/dl	"B"	Positive				Distance 6/6 with glass(- 0.25D)	Near N6 BE	Normal	
31	Radhawendra Jha	LAKSHAMIKANT JHA	LAB Assistant	08-03-1976	61	80	130/80	92 mg/dl	1 "O"	Positive	Abnorma	a Normal	l Normal	Distance 6/6	5 N6 Near	Normal	1
32	Sunil Kumar Palai	Nilmadhab Palai	Shift Incharge	18-06-1989	58	101	110/70	117 mg/dl	"O"	Positive	Abnorma	a Normal	d Normal	Distance 6/6		Normal	-
33	Saikat Santikary	BIDHAN CHANDRA SANTIKARY	Store Keeper	25-04-1994	62		130/80	409 mg/dl	"O"	Positive	Normal	Normal	1 Normal	Distance 6/6	N6 with 6 glass + 1.50 D(BE)	Normal	1
34	Sk Mustakin	SK SHAKUR	Welder	13-05-1990	57		110/70	128 mg/dl	"AB"	Positive	Normal	Normal	1	Distance 6/6	6 N6 Near	Normal	1
35	Ganesh Kumar Maurya	Bhagwan Maurya	Senior Electrician	01-04-1992	61		130/90	120	"B"	Positive		Normal	l Normal	Distance 6/6	6 N6 Near	Normal	1
36	Arindam Mukherjee	Sinil Mukherjee	Electrician	22-04-1986	66	109	136/70	107	"B"	Positive	Normal	l Normal	d Normal	Distance 6/6	6 N6 Near	Normal	1
37	Sailender Patel	Purushatam Patel	Fitter	01-01-1975	68	80	130/70	95 mg/dl	"O"	Positive	Normal	Normal	d Normal	Distance 6/6	6 N6 Near	Normal	1
38	Durga Prasad Lakshman	Late Mangobinda Lakshman	Electrician	12-01-1981	58	74	100/80	96 mg/dl	п "В"	Positive	Normal	1	Normal	Distance 6/6	N6 with 6 glass(+1.00) BE	Normal	1

RMO
SHRI HOSPITA
Near Reliance Petrol Pur

DATE: 08/11/2021

Health checkup details of Employees

	DATE: USI III D		Designation								PARAM	ETERS					
Sl. No.	Employee's Name (Mr.)	Father's name (Shri)	Designatio n	D.O.B.	Weight	PR	ВР	CBG	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	R
39	Pintu Singh	Birender Singh	Senior Electrician	01-01-1986	69	80	120/80	125 mg/dl	"AB"	Positive	Normal		Normal	Distance 6/6	N6 Near	Normal	
40	Rabindra Kumar	Prakash Kumar	Senior Fitter	01-07-1979	79	84	130/80	107 mg/dl	"AB"	Positive			Normal	Distance 6/6	N6 Near	Normal	
41	Rambirajan Paswan	Late Jahwar Ram	Fitter	01-01-1983	78	99	140/90	119 mg/dl	"A"	Positive	Normal		Normal	Distance 6/6	Near BE=+1.50D	Normal	
42	Sanjeet Kumar	JAGESHWAR PANDIT	Junior Fitter	01-02-1984	57	84	117/76	119 mg/dl	"A"	Negative	Normal			Distance 6/9.(+1.00) BE	N6 Near	Normal	
43	Rizwanali Khan	Late Shamshul Haque Khan	Electrician	04-11-1970	59	80	110/90	128 mg/dl	"O"	Positive			Normal	Distance 6/6	N6 Near	Normal	
44	Manas Chakraborty	PRANAB CHAKRABORTY	Senior Electrician	11-09-1992	62	84	130/90	260 mg/dl	"O"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
45	Ramanand Singh	DAYANAND SINGH	Fitter Cum Welder	01-01-1975	58		130/70	95 mg/dl	"O"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal	
46	Rajen Chouhan	Mahesh Chouhan	Assist. Operator Cum Fitter	10-01-1981	66	109	136/70	127 mg/dl	"A"	Positive			Normal	Distance 6/6	N6 Near	Normal	
47	Shyam Lal Das	Late Hiralal Das	Electrician	03-05-1985	58	74	110/70	128 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	Near=+1.00(BE)	Normal	
48	Sunil Yadav	ARJUN YADAV	Welder	01-01-1980	55		100/80	96 mg/dl	"B"	Positive	Normal		Normal		STORE !		
49	Rajesh Kumar Singh	LT UMANATH SINGH	Senior Fitter	05-10-1988	75	87	140/90	119 mg/dl	"B"	Positive				Distance 6/6	N6 Near	Normal	
50	Rajesh Kumar	Late Jagdish Mahato	Fitter	01-07-1992	54	76	108/80	99 mg/dl	"0"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
51	Bikash Kumar	Raghunandan Thakur	Fitter	10-03-1988	63	90	130/80	409 mg/dl	"B"	Positive				6/9 Distance, (BE=- 0.75D)6/6 with glass	N6 BE Near	Normal	
52	Ajay Kumar Bharti	SHALIGRAM KAMTI	Senior Electrician	26-02-1987	56	67	100/80	96 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
53	Rajkishor Ram	Badri Ram	Fitter	01-01-1973	60	111	110/90	128 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
54	Umakant Yadav	Ram Bahor Yadav	Fitter	01-07-1984	70	96	140/90	141 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
55	Joerge Petter	Patrick Pitter	Fitter	14-01-1990	72	104	130/80	107 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
56	Shiv Kumar	Surendra Singh	Electrician	02-04-1980	56	92	130/90	260 mg/dl	"O"	Positive			Normal	Distance 6/6) BE	Normal	
57	Raghunath Pal	Biswanath Pal	Junior Electrician	11-03-1998	72	90	130/70	95 mg/dl	"A"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.50D	Normal	

DATE: 09/1/2021

Health checkup details of Employees

-	mployee's Name (Mr.) F	D		T								PARAM	ETERS	11571				
S1. No.	Employee's Name (Mr.)	Father's name (Shri)	Designatio n	D.O.B.	Weight	PR	ВР	CBG	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	R	
58	Sonu Kumar Singh	Surendra Singh	Fitter	20-10-1987	52	74	117/76	104 mg/dl	"B"	Negative			Normal	Distance 6/6	N6 Near	Normal		
59	Bhim Show	SURESH SHOW	Fitter	05-08-1989	56	96	110/70	119 mg/dl	"B"	Positive	Normal		Normal					
60	Shidhan Yadav	Indrajit Yadav	Electrician	01-01-1989	68	105	136/70	127 mg/dl	"O"	Positive				Distance 6/6 with glass(- 0.25D)	Near Nő BE	Normal		
61	Lalan Yadav	Chaturanand Yadav	Fitter	01-05-1991	65	86	140/80	119 mg/dl	"O"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal		
62	Hiralal Yadav	SUKHDEO YADAV	Cutter	10-02-1996	59	104	110/70		"B"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal		
63	Rakesh Kumar	GHAMNDI YADAV	Cutter	01-01-1992	52	113	109/74	103 mg/dl	"О"	Positive	Normal	Normal	Normal	Distance 6/6	N6 with glass +1.50 D(BE)	Normal		
64	Vijay Kumar Singh	LATE WAKIL SINGH	Senior Fitter	21-02-1982	76		140/90	148 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal		
65	Rupesh Kumar	Manoranjan Singh	Fitter	20-04-1993	68	80	120/80	145 mg/dl	"O"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal		
66	Rohit Kumar Yadav	Amaerjeet Yadav	Helper	04-03-1995	63		120/80	96 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal		
67	Arup Ganguli	Panchanan Ganguli	Helper	02-10-1985	79	99	144/90	109 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal		
68	Rajesh Pal	Nanda Dulal Paul	Electrician	11-05-1986	74	84	130/90	90 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.00) BE	Normal		
69	Vicky Yadav	RAMBILASH RAI	Fitter	01-01-1988	82	118	150/100	151 mg/dl	"B"	Positive	Normal		Normal					
70	Sanjay Prasad	BALESHWAR MAHTO	Fitter	08-02-1981	64	80	120/90	107 mg/dl	"A"	Positive				Distance 6/6 with glass(- 0.25D)	Near N6 BE	Normal		
71	Sitaram Gorai	DULAL GORAI	Helper	06-04-1993	55		110/80	119 mg/dl	"B"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal		
72	Rabi Shaw	JAMUNA PRASAD SHAW	Welder	17-06-1985	72	99	130/80	92 mg/dl	"O"	Negative	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal		
73	Kaushal Kumar	BHAGWAN YADAV	Fitter	26-06-1987	64	84	110/70	117 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 with glass + 1.50 D(BE)	Normal		
74	Rambalee Kumar	PARAS SINGH	Senior Fitter	05-01-1984	73	118	130/80	409 mg/dl	"A"	Positive	Norma	Normal		Distance 6/6	N6 Near	Normal	1	
75	Nivas Kumar	Upendra Prasad Sah	Electrician	25-10-1987	58	80	110/70	128 mg/dl	"O"	Positive		Norma	Normal	Distance 6/6	N6 Near	Normal		
76	Sandip Roy	Shibshankar Roy	Helper	11-02-2000	65	84	130/90	120 mg/dl	"B"	Positive	Norma	Norma	Normal	Distance 6/6	N6 Near	Normal		

SHRI HOSPITAL
Near Reliance Petrol Pumpsies

DATE :09/11/2021

Health checkup details of Employees

	DATE OF THE			T									PARAM	ETERS					
Sl. No.	Employee's Name (Mr.)	Father's name (Shri)	Designatio n	D.O.B.	Weight	PR	BP	CBG	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	Re		
77	Surjakanta Rajak	Banshi Rajak	Chemist	13-06-1986	67		136/70	127 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal			
78	Kumar Harsh Yadav	Jamindar Prasad Yadav	Helper	03-02-1995	72	109	130/70	95 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.00) BE	Normal			
79	Ranjeet Kumar	Paltu Singh	Fitter	25-01-1983	65	74	100/80	96 mg/dl	"O"	Positive	Normal		Normal	Distance 6/6	N6 Near	Normal			
80	Manoj Ray	Shiv Ray	Fitter	01-01-1996	68	200	120/80	125 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 Near	Normal			
81	Swapan Bauri	Nimai Bauri	Welder	27-06-1997	72	87	130/80	107 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	Near BE=+1.50D	Normal			
82	Ramsagar Yadav	Jitanarayan Yadav	Electrician	24-04-1987	80	76	140/90	119 mg/dl	"O"	Positive	Normal			Distance 6/9.(+1.00) BE	N6 Near	Normal			
83	Md Nawab Ali	Md Shaukat Ali	Senior Fitter	12-01-1982	59	90	117/76	119 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 Near	Normal			
84	Raj Kumar	Ram Pravesh Singh	Fitter	15-02-1991	56	67	110/90	128 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal			
85	Shyamjee Kumar	Rajdev Yadav	Fitter	07-03-1992	70	111	130/90	260 mg/dl	"B"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal			
86	Raj Kumar	Pramod Singh	Electrician	16-08-1998	77	96	130/70	95 mg/dl	"A"	Positive			Normal	Distance 6/6	N6 Near	Normal			
87	Santanu Adhikary	CHANDRASHEKHAR ADHIKARY	Electrician	21-05-1993	74	104	136/70	127 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	Near=+1.00(BE)	Normal			
88	Subrata Das	Shyamsundar Das	Welder	11-12-1997	67	90	110/70	128 mg/dl	"O"	Positive	Normal		Normal		16 5				
89	Sachin Karmakar	Late Mahadev Karmakar	Assistant	11-01-1971	62	-	100/80	96 mg/dl	"O"	Positive				Distance 6/6	N6 Near	Normal			
90	Anil Kumar	Dasharath Saw	Electrician	02-05-1992	78	80	140/90	119 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal			
91	Sunil Kumar Singh	Ramjee Singh	Foreman	01-01-1983	74	101	108/80	99 mg/dl	"B"	Positive				6/9 Distance, (BE=- 0.75D)6/6 with glass	N6 BE Near	Normal			
92	Gulab Prasad	Mahadev Lal	Foreman	05-02-1983	82	87	130/80	409 mg/dl	"B"	Positive	Normal			Distance 6/9.(+1.00) BE	N6 Near	Normal			
93	Sandeep Thakur	Shivnandan Thakur	Senior Foreman	09-03-1976	59	76	100/80	96 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 Near	Normal			
94	Arup Chaudhuri	NIKHIL CHAUDHURI	Senior Electrician	01-01-1987	57	90	110/90	128 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal			
95	Jitendra Kumar Mahato	MADAN MAHATO	Assistant Foreman	01-01-1983	64	67	140/90	141 mg/dl	"A"	Positive		Normal	Normal	Distance 6/6	N6 Near	Norma			

RMO
SHRI HOSPITAL
Near Rehance Petrol Pump

	DATE: 09(11)	1			- W. W. S. S.				- well-series	A NEW TOWN	PARAM	ETERS					
Sl. No.	Employee's Name (Mr.)	Father's name (Shri)	Designatio n	D.O.B.	Weight	PR	BP	свс	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	R
96	Anil Prasad Ram	LATE RAMANAND RAM	Electrician	18-11-1978	67	80	130/80	107 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 Near	Normal	
97	Prasanta Bhattacharya	Late Sagardas Bhattacharva	Control Room	14-06-1967	59	74	130/90	260 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	Near=+1.00(BE)	Normal	
98	Chiranjit Kumbhakar	Swapan Kumbhakar	Control Room	13-02-1996	62	80	100/80	96 mg/dl	"AB"	Positive	Normal		Normal				
99	Jotirmoy Thakur	Tapan Thakur	Control Room	13-08-1995	70	84	110/90	128 mg/dl	"B"	Positive				Distance 6/6	N6 Near	Normal	
100	Satyendra Roy	Late Gyanendra Roy	Tapper	30-11-1983	82	99	140/90	141 mg/di	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
101	Suklal Tudu	Ratan Tudu	Tapper	01-01-1987	59	84	130/80	107 mg/dl	"O"	Positive				6/9 Distance, (BE=- 0.75D)6/6 with glass	N6 BE Near	Normal	
102	Chotan Mukherjee	Late Sadhan Mukherjee	Control Room	09-09-1986	54		130/90	260 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
103	Swadesh Musib	Swapan Musib	Electrician	23-03-1995	74	109	136/97		"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
104	Sudip Ruidas	Madan Ruidas	Control Room	17-10-1993	67	74	110/70	102 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
105	Rabindranath Bera	Late Gopal Chandra Bera	Senior Electrician	07-06-1966	62		120/90	97 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
106	Mahabir Bauri	Late Kalo Bauri	Senior Fitter	13-02-1985	78	87	120/80	125 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 with glass(+1.50D) BE	Normal	
107	Rajesh Singh	Sanatan Sing	Tapper	18-09-1988	74	76	140/90	119 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.50D	Normal	
108	Ali Hussen	Md Salim	Technician	01-03-1979	82	90	130/80	109 mg/dl	"AB"	Positive			Normal	Distance 6/6	N6 Near	Normal	
109	Amar Kumar Bagdi	Basudeb Bagdi	MRP Operator	04-09-1997	59	67	130/90	120 mg/dl	"O"	Positive	Normal		Normal				
110	Dhananjay Mahanta	Ashke Mahanta	Control Room Operator	01-01-1987	57	111	130/70	95 mg/dl	"O"	Positive				Distance 6/6 with glass(- 0.25D)	Near N6 BE	Normal	
111	Sanjoy Mandal	Biswabasu Mandal	Florklift Operator	03-08-1978	64	96	117/76	104 mg/dl	"O"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal	
112	Shantanu Mahato	Ashni Mahato	Florklift Operator	17-12-1990	67	104	110/70	119 mg/dl	"B"	Positive	Abnorma	Normal	Normal	Distance 6/6	A CHARLES	Normal	
113	Lakhikanta Patar	SUDHAMOY PATAR	Tapper	21-05-1994	63	90	136/70	127 mg/dl	"O"	Positive	Norma	Normal	Normal	Distance 6/6	N6 with glass +1.50 D(BE)	Normal	

RMO
SHRI HOSPITAL
Near Reliance Petrol Pump,

DATE: 10/11/2021

Health checkup details of Employees

			Designatio								PARAM	ETERS					
SI. No.	Employee's Name (Mr.)	Father's name (Shri)	n Designatio	D.O.B.	Weight	PR	ВР	СВС	Blood Group	RH factor	ECG	X-RAY	Audiom	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	Re
114	Bhagwan Rawani	Mohan Rawani	Florklift Operator	01-01-1975	59		140/80	119 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
115	Jiten Ghosh Gope	Janaki Ghosh Gope	MRP Operator	01-01-1975	65	80	110/70		"O"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal	
116	Subash Das	Late Sahdev Das	Senior Tapper	01-01-1975	78	101	109/74	103 mg/dl	"0"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
117	Vikash Mahato	Nandalal Mahato	Electrician	18-10-1990	69		140/90	148 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
118	Subhamoy Mandal	Dipak Mandal	Junior Electrician	14-07-1996	59		120/80	145 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.00) BE	Normal	
119	Sumanta Maji	Gunamoy Maji	Technician	02-04-2000	62		120/80	96 mg/dl	"0"	Positive	Normal		Normal	Distance 6/6	N6 Near	Normal	
120	Subhajit Biswas	Biswajit Biswas	Senior Operator	03-12-1996	70	109	144/90	109 mg/dl	"O"	Positive			Normal	Distance 6/6	N6 Near	Normal	
121	Debasish Layek	Sudhakar Layek	Electrician	14-02-1989	82	80	130/90	90 mg/dl	"O"	Positive	Normal		Normal	Distance 6/6	Near BE=+1.50D	Normal	
122	Sambhu Bagdi	Ajit Bagdi	Tapper	02-04-1977	59	74	150/100	151 mg/dl	"B"	Positive	Normal			Distance 6/9.(+1.00) BE	N6 Near	Normal	
123	Bharatchandra Mandi	Late Purna Chandra Mandi	Таррег	18-08-1969	54	80	120/90	107 mg/dl	"A"	Positive			Normal	Distance 6/6	N6 Near	Normal	
124	Parmeswar Murmu	Late Shuna Murmu	Tapper	01-01-1974	74	84	110/80		.o.	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
125	SK Firdous	Sk Jahir	Tapper	01-01-1990	67	99	130/80	92 mg/dl	"0"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal	
126	Chintu Verma	Bijay Kumar Verma	Control Room	24-09-1993	62	84	110/70	117 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 Near	Normal	
127	Piyush Kumar	Pankaj Kumar Choudhary	Batching Operator	16-09-1992	78	113	130/80	409 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	Near=+1.00(BE)	Normal	
128	Chandan Nonia	Siyasharan Nonia	Florklift Operator	01-01-1985	74		110/70	128 mg/dl	"AB"	Positive	Normal		Normal				
129	Debu Mahato	Late Niru Mahato	Tapper	01-01-1983	82	99	130/90	120 mg/dl	"O"	Positive				Distance 6/6	N6 Near	Normal	1
130	Samiran Mahato	Ashwini Mahato	Forklift Operator	18-08-1986	59	84	136/70	127 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
131	Prasenjit Banerjee	Bidyapati Banerjee	Forklift Operator	04-04-1992	57	118	130/70	95 mg/dl	"B"	Positive				6/9 Distance, (BE=- 0.75D)6/6 with glass	N6 BE Near	Normal	
132	Ajeet Kumar Pandey	Ramji Pandey	Control Room	06-11-1996	64	80	100/80	96 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
133	Balaram Mandal	Prasanta Mandal	Control Room	25-02-1999	67	84	120/80	125 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	No.

RMO SHRI HOSPITAL Near Reliance Petrol Pump, K

DATE: (oful)024

Health checkup details of Employees

	DATE: (O(TC) P		Designatio		12/12/1						PARAM	ETERS					
SI. No.	Employee's Name (Mr.)	Father's name (Shri)	n	D.O.B.	Weight	PR	ВР	CBG	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	Re
134	Joydeb Banerjee	Late Gurupada Banerjee	Tapper	15-02-1979	63		130/80	107 mg/dl	"O"	Negative	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
135	Apurba Ghosh	Late Parimal Ghosh	Batching Operator	05-03-1999	59	109	140/90	119 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
136	Amit Maji	Fatick Maji	Electrician	25-08-1996	65	74	117/76	119 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 with glass(+1.50D) BE	Normal	
137	Suno Kisku	Late Sunil Kisku	MRP Operator	21-03-1998	69		110/90	128 mg/dl	"A"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.50D	Normal	
138	Jagannath Das	Kailash Das	Control Room	08-05-1995	59	- 87	130/90	260 mg/dl	"O"	Positive			Normal	Distance 6/6	N6 Near	Normal	
139	Nandalal Mondal	Subhash Chandra Mondal	Electrician	25-02-1987	62	76	130/70	95 mg/dl	"B"	Positive	Normal		Normal				1
140	Sajal Mondal	SUBHAS CHANDRA MONDAL	Senior Electrician	23-01-1982	70	90	136/70	127 mg/dl	"B"	Positive				Distance 6/6 with glass(- 0.25D)	Near N6 BE	Normal	
141	Debi Prasad Mondal	SATISH CHANDRA MANDAL	Senior Electrician	09-11-1971	82	67	110/70	128 mg/dl	"O"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal	
142	Sudhakar Mahato	манарев манато	Senior Electrician	22-10-1974	59	111	100/80	96 mg/dl	"AB"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal	
143	Tarakeswar Kushbaha	JAGANNATH KUSHBAHA	Motor Winder	17-04-1976	54	96	140/90	119 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 with glass +1.50 D(BE)	Normal	
144	Sujit Sinha	LATE HIRALAL SINHA	Electrician	03-02-1982	74	104	108/80	99 mg/dl	"O"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	The second
145	Biplab Sarkar	MALAY KUMAR SARKAR	Electrician	22-04-1992	67	90	130/80	409 mg/dl	"AB"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal	
146	Pradyot Kumar Khan	AJIT KUMAR KHAN	Electrician	22-11-1972	62		100/80	96 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
147	Md Irfan	MD SHABAN	Shift Incharge	04-07-1989	78	80	110/90	128 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
148	Md Kalim	SHEK SALIM	Technician	06-11-1981	74	101	140/90	141 mg/dl	"B"	Negative	Normal		Normal	Distance 6/6	N6 with glass(+1.00) BE	Normal	
149	Purusottam Bhuyan	BHANUCHARAN BHUYAN	Control Room	01-04-1981	82		130/80	107 mg/dl	"O"	Positive	Normal		Normal				
150	Manoranjan Behera	KAILASH CHANDRA BEHERA	Control Room Operator	13-03-1978	59		130/90	260 mg/dl	"B"	Positive				Distance 6/6 with glass(- 0.25D)	Near N6 BE	Normal	
151	Shekhar Mandal	BIJAY MANDAL	Control Room	01-01-1986	57		130/70	95 mg/dl	"B"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal	

RMO SHRI HOSPITAL Near Reliance Petrol Pump

DATE: 11/11/2021

Health checkup details of Employees

ED III	DATE: COLOR		Designatio					4 4 4 4		La La Maria	PARAM	ETERS					
Sl. No.	Employee's Name (Mr.)	Father's name (Shri)	n	D.O.B.	Weight	PR	BP	CBG	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	Re
152	Nazibul Sekh	Abdul Shaikh	Control Room Operator	04-05-1985	64	109	117/76	104 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 with glass +1.50 D(BE)	Normal	
153	Rakesh Goswami	DILIP GOSWAMI	Operator	17-12-1994	67	80	110/70	119 mg/dl	"0"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
154	Rakesh Gour	SRIDAM CHANDRA GOUR	Operator	07-01-1982	63	74	136/70	127 mg/dl	"A"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal	
155	Jamil Ahamed	TAJAMMUL HUSSAIN	Operator	25-12-1987	79	80	140/80	119 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
156	Rajen Das	LAKSHMI NARAYAN DAS	Operator	01-01-1975	65	84	110/70		"O"	Positive	Normal	Normal	Normal	Distance 6/6		Normal	
157	Dolon Mandal	MANIK CHANDRA MONDAL	Operator	16-03-1992	59	99	109/74	103 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.00) BE	Normal	
158	Utpal Digar	SASTI PADA DIGAR	Welder	19-02-1975	74	84	140/90	148 mg/dl	"O"	Positive	Normal		Normal	Distance 6/6	N6 Near	Normal	
159	Taraknath Karmokar	SANATAN KARMAKAR	Welder	01-01-1974	63		120/80	145 mg/dl	"O"	Positive			Normal	Distance 6/6	No Near	Normal	
160	Sanjay Mahato	ASWINI MAHATO	Fitter	13-09-1986	59	99	120/80	96 mg/dl	"O"	Positive	Normal		Normal	Distance 6/6	Near BE=+1.50D	Normal	
161	Sourav Mitra	SHAKTI PADA MITRA	Junior Fitter	25-03-1979	78	84	144/90	109 mg/dl	"O"	Positive	Normal			Distance 6/9.(+1.00) BE	N6 Near	Normal	
162	Sahid Ansari	SAHABUDDIN ANSARI	Assistant Fitter	01-01-1977	74	118	130/90	90 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 Near	Normal	
163	Bipin Gorai	BADAL CHANDRA GORAI	Fitter	01-01-1986	87	80	150/100	151 mg/dl	"O"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
164	Umesh Sharma	BHARAT SHARMA	Fitter	01-01-1985	65	84	120/90	107 mg/dl	,O.,	Positive		Normal	Normal	Distance 6/6	No Near	Normal	
165	Bijoy Bouri	BAHADUR BAURI	Junior Fitter	21-07-1987	57	4. AT 8	110/80		"A"	Positive			Normal	Distance 6/6	N6 Near	Normal	
166	Debashis Gorai	SANTOSH KUMAR GARAI	Junior Fitter	22-11-1988	64	109	130/80	92 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	Near=+1.00(BE)	Normal	
167	Rabindranath Das	SHANTI BOURI	Fitter	01-01-1971	62	74	110/70	117 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	N6 Near	Normal	
168	Rajib Maji	Aloke kumar Maji	Electrician	01-01-1992	59		130/80	409 mg/dl	"O"	Positive				Distance 6/6	N6 Near	Normal	
169	Prakash Kumar Pranava	Upendra Prasad	Fitter	15-12-1990	66	87	110/70	128 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
170	Mithun Chouchan	Late Hublal Chouchan	Fitter	15-03-1990	69	76	130/90	120 mg/dl	"O"	Positive				6/9 Distance, (BE=- 0.75D)6/6 with glass	N6 BE Near	Normal	

RMO
SHRI HOSPITAL
Near Reliance Petrol Pump, K

	DATE: 11 11 2	021									PARAM	ETERS					
l. No.	Employee's Name (Mr.)	Father's name (Shri)	Designatio n	D.O.B.	Weight	PR	ВР	СВС	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	1
171	Debasis Mondal	Damodar Mondal	Fitter	07-04-1992	74	90	136/70	127 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	-
172	Dharani Kumar	Khudiram Kumar	Fitter	09-06-1973	72	67	130/70	95 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	+
173	Devilal Mahto	Late Shambhunath Mahto	Welder	03-01-1972	62	111	100/80	96 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	+
174	Giridhari Sahoo	Laxman Sahoo	Assistant Fitter	06-05-1989	78	96	120/80	125 mg/dl	"O"	Positive	Normal	Normal		Distance 6/6	N6 Near N6 with	Normal	+
175	Santosh Kumar	LAKSHMI KANT KUMAR	Electrician	23-02-1982	74	104	130/80	107 mg/dl	"A"	Positive			Normal	Distance 6/6	glass(+1.50D) BE	Normal	
176	Ravi Shankar Kumar	Rajendra Mahto	Operator	05-01-1989	82	90	140/90	119 mg/dl	"O"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.50D	Normal	
177	Prince Roy	Krishna Kumar Rai	Control Room	05-07-1983	59		117/76	119 mg/dl	"A"	Negative			Normal	Distance 6/6	N6 Near	Normal	
178	Mukesh Kumar Dubey	Permeshwar Dubey	Control	05-01-1985	57	80	110/90	128 mg/dl	"B"	Positive	Normal		Normal				
179	Bablu Kumar	Ramshakal Sah	Rigger	01-01-1997	64	101	130/90	260 mg/dl	"O"	Positive				Distance 6/6 with glass(- 0.25D)	Near N6 BE	Normal	
180	Somenath Paul	SUNIL PAUL	Operator	30-07-1985	67	87	130/70	95 mg/dl	"B"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal	
181	Sanjoy Mahato	SUDHIR MAHATO	Assistant	07-03-1989	70	76	136/70	127 mg/dl	"B"	Positive	Abnorma	Normal	Normal	Distance 6/6		Normal	
182	Md Firoz	MAHAMMOD RAJJU	Fitter	15-08-1988	82	90	110/70	128 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 with glass +1.50 D(BE)	Normal	
183	Ajay Mishra	LATE DUDH NATH MISHRA	Electrician	15-07-1993	59	67	100/80	96 mg/dl	"O"	Positive	Normal	Norma		Distance 6/6	N6 Near	Normal	
184	Laxmikanta Mahapatra	LAXMAN MAHAPATRA	Operator	18-02-1982	85	80	140/90	mg/dl	"B"	Positive		Norma	Normal	Distance 6/6	N6 Near	Normal	
185	Madhab Gorai	RADHA GOBINDA GORAI	Operator	20-08-1995	74	74	108/80	99 mg/d	1 "B"	Positive	Norma	Norma	Normal	Distance 6/6	N6 Near	Normal	
186	Sk Hasibul Hasan	SK KHOSNABI	Fitter	19-10-1987	67	80	130/80	409 mg/dl	"O"	Positive	Norma	Norma	l Normal	Distance 6/6	N6 Near	Normal	
187	Aditya Kumar	VIJAY PANDAY	Electrician	02-02-1992	62	84	100/80	96 mg/d	"O"	Positive	Norma	1	Normal	Distance 6/6		Normal	1
188	Bimal Kumar	RAM MURTI SINGH	Welder	05-03-1987	78	99	110/90	128 mg/dl	"B"	Positive	Norma	1	Norma	Distance 6/6	N6 Near	Norma	1
189	Soumen Bouri	PRAMATHA BOURI	Motor Winder	27-09-1984		84	140/90	141 mg/dl	"B"	Positive			Norma	Distance 6/0	N6 Near	Norma	1

RMO SHRI HÖSPITAL Vear Reliance Petrol Pump, Sign

DATE: tilu/2021

Health checkup details of Employees

	DATE: "IUI N										PARAM	ETERS					1
Sl. No.	Employee's Name (Mr.)	Father's name (Shri)	Designatio n	D.O.B.	Weight	PR	вр	свб	Blood	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	Ren
190	Ambuj Mahato	BIJOY MAHATO	Senior	23-06-1987	82		130/80	107 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	Near BE=+1.50D	Normal	
191	Subrata Das	VIVAKANAND DAS	Fitter Electrician	20-08-1997	59	87	130/90	260 mg/dl	"B"	Positive	Normal			Distance 6/9.(+1.00) BE	N6 Near	Normal	
192	Dharmjeet Kumar	Laxman Paswan	Rigger	02-10-1995	57	76	108/80	99 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 Near	Normal	
193	Santanu Kumar Patra	Madan Mohan Patra	Fitter	20-06-1973	64	90	130/80	409 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
194	Mrinmoy Chakraborty	Jiban Chakraborty	Electrician	05-11-1991	67	67	100/80	96 mg/dl	"B"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal	
195	Sumit Gorai	Bhaduri Gorai	Junior	25-12-1988	63	111	110/90	128 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 Near	Normal	
196	Partha Sarathi Mondal	Dulai Chandra Mondal	Electrician Senior Electrician	09-05-1994	59	96	140/90	141 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	Near=+1.00(BE)	Normal	
197	Pivari Mahato	Late Lilu Mahato	Senior Fitter	16-08-1990	65	104	130/80	107 mg/dl	"B"	Positive	Normal		Normal	Anda.	1571		
198	Rajendra Prasad Mondal	Jaidy Mandal	Welder	18-08-1989	69	90	130/90	260 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	-
199	Rajib Kumar Atha	Ajay Kumar Atha	Senior Technician	14-04-1992	59		110/70		"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
200	Aditya Dev Burman	Atul Dev Burman	Assistant Fitter	14-06-1998	62	80	109/74	103 mg/dl	"B"	Positive	Normal	Normal	Normal	6/9 Distance, (BE=- 0.75D)6/6 with glass	N6 BE Near	Normal	
201	Jitendra Nath Roy	Late Dilip Roy	Fitter	04-03-1994	70	101	140/90	148 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
202	Manik Mukherjee	Late Chakradhar	Fitter	01-01-1977	82	87	120/80	145 mg/dl	"A"	Positive	Norma	Normal	Normal	Distance 6/6	No Near	Normal	
203	Pawan Kumar Singh	Mukherji Sambaboo Singh	Control Room	18-05-1978	59	76	120/80	96 mg/dl	"B"	Positive	Norma	Norma	Normal	Distance 6/6	No Near	Normal	-
204	Kunal Adhikari	Paritosh Adhikari	Control Room	09-11-1996	54	90	144/90	109 mg/dl	"B"	Positive	Norma	Norma	1	Distance 6/6		Normal	-
205	Sukdeb Ghorai	Late Haripada Ghorai	Senior Fitter	30-09-1983	74	67	130/90	90 mg/dl	"B"	Positive			Norma	Distance 6/6	N6 with 5 glass(+1.50D) BE	Normal	
206	Madhusudan Roy	Late Fatik Roy	Control Room Operator	11-04-1985	67	80	150/100	151 mg/dl	"B"	Positive	Norma	1	Norma	Distance 6/6	N6 with glass(+1.50D	Norma	
207	Prasenjit Mahato	Haripada Mahato	Senior Electrician	01-04-1991	62	74	120/90	107 mg/dl	"A"	Positive			Norma	Distance 6/	6 N6 Near	Norma	-
208		Uday Karmakar	Welder	02-02-1984	78	80	110/80		"B"	Positive	Norma	d	Norma	Distance 6/	6 N6 Near	Norma	1

SHRI HOSPITAL

*Jear Reliance Petrol Pump, Kulti

DATE: 12/11/2021

Health checkup details of Employees

-	DATE: 2111 L										PARAM	ETERS			т		-
1. No.	Employee's Name (Mr.)	Father's name (Shri)	Designatio n	D.O.B.	Weight	PR	ВР	СВС	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	F
209	Manish Kumar Singh	Lallan Dhari Singh	Electrician	21-05-1993	74	84	130/80	92 mg/dl	"A"	Negative				Distance 6/6 with glass(- 0.25D)	Near N6 BE	Normal	
210	Kazal Hazra	Late Shaktidhar Hazra	Fitter	01-01-1981	82	99	110/70	117 mg/dl	"AB"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal	-
211	Dipak Char	GOPINATH CHAR	Operator	16-12-1980	59	84	130/80	409 mg/dl	"O"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal	
212	Kaushal Kumar Gupta	Sudhir Parsad Gupta	2nd Class Boiler Attendant	12-07-1981	57	74	140/90	148 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 with glass + 1.50 D(BE)	Normal	
213	Sanjay Kumar Kushwaha	Late Narayan Mahato	1st Class Boiler Operator	16-06-1983	64		120/80	145 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6	No Near	Normal	
214	Pankaj Kumar Yadav	Jawahar Yadav	Turner	23-01-1990	67	87	120/80	96 mg/dl	"B"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal	1
215	Vishal Kumar	Virendra Choudhary	Fitter	06-08-1995	63	76	144/90	109 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	1
216	Sahid Akhtar	Late Md Alam	Senior Electrician	10-01-1978	59	90	130/90	90 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	1
217	Suman Das	Late Satya Das	Technician	22-09-1994	79	80	150/100	151 mg/dl	"AB"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.00) BE	Normal	
218	Amrendra Singh	Ramchandra Singh	Fitter	03-01-1984	65	111	120/90	107 mg/dl	"B"	Positive	Normal		Normal				1
219	Dip Gorai	Chandi Gorai	Field Operator	28-07-1990	59	96	140/90	148 mg/dl	"O"	Positive				Distance 6/6 with glass(- 0.25D)	Near N6 BE	Normal	
220	Vikram Kumar	Shri Paswan	Guide Fitter	02-01-2000	54	104	120/80	145 mg/dl	"B"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Norma	+
221	Bipan Das	Late Ajit Das	Electrician	04-03-1991	74	90	120/80	96 mg/dl	"AB"	Positive	Abnorma	Normal	Normal	Distance 6/6		Norma	
222	Ajit Kumar	Late Dinesh Pandit	Sapper	25-12-1988	74	-	144/90	109 mg/dl	"0"	Positive	Normal	Normal	Normal	Distance 6/6	N6 with glass +1.50 D(BE)	Norma	
223	Duryodhan Mallick	Late Madhu Mallick	Fitter	01-01-1987	62	80	130/90	90 mg/dl	"A"	Positive	Norma	Normal		Distance 6/6	N6 Near	Norma	
224	Gopal Pramanik	Late Rijhu Pramanik	Senior Electrician	19-04-1988	78	101	150/100	151 mg/dl	"A"	Positive		Norma	Normal	Distance 6/6	N6 Near	Norma	1
225	Swarup Bag	Ajit Bag	Welder	14-02-1983	74	87	120/90	107 mg/dl	"B"	Positive	Norma	Norma	Normal	Distance 6/0	N6 Near	Norma	1
226	Jagannath Dan	Shyamapada Dan	Field Operator	04-03-1989	82	76	110/80		"B"	Positive	Norma	Norma	Norma	Distance 6/	N6 Near	Norma	1

RMO SHRI HOSPITAL 'Jear Reliance Petrol Pump, K

DATE: 12/11/221

Health checkup details of Employees

5 50			Designatio							all BU	PARAM	ETERS					
I. No.	Employee's Name (Mr.)	Father's name (Shri)	n	D.O.B.	Weight	PR	ВР	СВС	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	Re
227	Bikash Mondal	Niranjan Mondal	Field Operator	29-06-1999	59	90	130/80	92 mg/dl	"0"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.00) BE	Normal	
228	Ritesh Kumar Singh	Guni Singh	Field Operator	20-12-1996	57	67	110/70	117 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	N6 Near	Normal	
229	Sourav Giri	Jamini Giri	Field Operator	03-10-1997	64	80	130/80	409 mg/dl	"A"	Positive			Normal	Distance 6/6	N6 Near	Normal	
230	Pradeep Kumar Napit	Late Govind Chandra Napit	Senior Fitter	04-01-1977	67	74	110/70	The second second	"0"	Positive	Normal		Normal	Distance 6/6	Near BE=+1.50D	Normal	
231	Abhishis Das	Manohar Das	Helper	20-04-1996	63	80	109/74	103 mg/dl	"AB"	Positive	Normal			Distance 6/9.(+1.00) BE	N6 Near	Normal	
232	Rahul Sharma	Ramashankar Shrma	Assistant Fitter	11-07-1997	59	84	140/90	148 mg/dl	"O"	Positive			Normal	Distance 6/6	N6 Near	Normal	
233	Aloke Majee	Murulidhar Majee	Senior Electrician	08-01-1986	65	99	120/80	145 mg/dl	"B"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
234	Amresh Pandey	Norng Pandey	Fitter	05-04-1985	78	84	120/80	96 mg/dl	"O"	Negative		Normal	Normal	Distance 6/6	N6 Near	Normal	
235	Rakesh Chakraborty	Prabhat Chakraborty	AHP Operator	01-09-1977	69		144/90	109 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 Near	Normal	
236	Somnath Rana	Joygurucharan Rana	Control Room	02-05-1994	59	92	130/90	90 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	Near=+1.00(BE)	Normal	
237	Robin Banerjee	Late Gour Banerjee	Welder	02-02-1990	62	90	150/100	151 mg/dl	"B"	Positive	Normal		Normal				
238	Md. Hasan Ansari	Chand Akhtar	AHP Operator	06-04-1987	70	74	120/90	107 mg/dl	"A"	Positive				Distance 6/6	N6 Near	Normal	
239	Deshbandhu Samanta	Sannyasi Charan Samanta	Senior Fitter	13-01-1983	82	96	110/80		"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
240	Sujit Pramanik	Late Shyam Chand Pramanik	Senior Electrician	21-02-1988	59	105	130/80	92 mg/dl	"A"	Positive				6/9 Distance, (BE=- 0.75D)6/6 with glass	N6 BE Near	Normal	
241	Shanta Tantubay	Sadananda Tantubay	Welder	01-04-1991	54	86	110/70	117 mg/dl	"B"	Positive	Normal			Distance 6/9.(+1.00) BE	N6 Near	Normal	
242	Jyotirmay Atha	Ajit Kumar Atha	Control Room	02-02-1994	74	104	130/80	409 mg/dl	"A"	Positive			Normal	Distance 6/6	N6 Near	Normal	
243	Ankit Kumar Yadav	Mohan Chandra Yadav	Helper	15-11-1995	67	113	140/90	148 mg/dl	"0"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
244	Hemanta Rajak	Gour Rajak	Operator	01-05-1998	62	109	120/80	145 mg/dl	"B"	Negative		Normal	Normal	Distance 6/6	N6 Near	Normal	
245	Manojit Kumar	Nirod Kumar	Welder	15-03-1997	78	80	120/80	96 mg/dl	"A"	Positive			Normal	Distance 6/6	N6 Near	Normal	



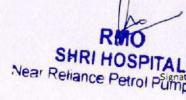
-	DATE: 12/11/2		T T			WITCHS.		V TIEN			PARAM	ETERS					
Sl. No.	Employee's Name (Mr.)	Father's name (Shri)	Designatio n	D.O.B.	Weight	PR	ВР	CBG	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	R
246	Mithun Bouri	Late Sankar Bouri	Welder	20-04-1992	74	74	144/90	109 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	Near=+1.00(BE)	Normal	1
247	Nayan Bouri	Biswanath Bouri	Welder	05-01-1993	82	80	130/90	90 mg/dl	"B"	Positive	Normal		Normal				
248	Mahadev Das	Late Madhusudan Das	Welder	05-07-1979	79	84	150/100	151 mg/dl	"0"	Positive				Distance 6/6	N6 Near	Normal	
249	Khokan Digar	Ajit Digar	Rigger	02-03-1994	57	99	120/90	107 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	1
250	Baneswar Ray	Paresh Ray	Junior Fitter	07-02-1996	64	84	130/80	148 mg/dl	"B"	Negative				6/9 Distance, (BE=- 0.75D)6/6 with glass	N6 BE Near	Normal	
251	Sunil Thakur	Sarvan Thakur	AHP Operator	16-08-1982	67	74	120/80	145 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
252	Kajal Paramanik	Prabodh Paramanik	Welder Cum Gas	03-08-1988	63	90	120/80	96 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	1
253	Pandab Bauri	Ratan Bauri	Welder Cum Gas	17-01-1982	59	74	144/90	109 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
254	Rohit Kumar Rout	Nand Lal Raut	Fitter	08-09-1995	65	96	130/90	90 mg/dl	"AB"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
255	Gautam Rajwar	Biswanath Rajwar	CHP Operator	01-01-1981	84	105	150/100	151 mg/dl	"A"	Positive			Normal	Distance 6/6	N6 with glass(+1.50D) BE	Normal	
256	Shibasankar Patra	Umakanta Patra	Senior Technician	08-04-1996	59	86	120/90	107 mg/dl	"O"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.50D)	Normal	
257	Kush Maji	Upendra Maji	Electrician	24-05-1990	62	104	110/80		"B"	Positive			Normal	Distance 6/6	N6 Near	Normal	4
258	Surai Majhi	Late Thakura Majhi	Electrician	12-06-1997	70	113	130/80	92 mg/dl	"AB"	Positive	Normal		Normal				
259	Subhnarayan	Lalluram	Fitter	05-08-1992	82		110/70	117 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6 with glass(- 0.25D)	Near N6 BE	Normal	
260	Nasiruddin	Late Alauddin Ansari	CHP Operator	19-10-1981	59	99	130/80	409 mg/dl	"0"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal	
261	Srikanta Mandal	Ashok Mandal	Fitter	29-11-1990	54	84	140/90	148 mg/dl	"B"	Positive	Abnorma	Normal	Normal	Distance 6/6		Normal	4
262	Sumit Datta	Basanta Kumar Datta	Pulpit Operator	25-03-1995	74	118	120/80	145 mg/dl	"O"	Positive	Norma	Normal	Normal	Distance 6/6	N6 with glass +1.50 D(BE)	Normal	
263	Pankaj Paswan	Indradeo Paswan	Field Operator	15-06-1988	67	80	120/80	96 mg/dl	"O"	Positive	Norma	Normal		Distance 6/6	N6 Near	Norma	1

RMO SHRI HOSPITAL Near Reliance Petrol Pump Signa

DATE: 15/11/22/

Health checkup details of Employees

			Designatio				te neine				PARAM	ETERS					
Sl. No.	Employee's Name (Mr.)	Father's name (Shri)	n	D.O.B.	Weight	PR	ВР	CBG	Blood Group	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	Re
264	Santosh Kumar	Late Ram Jatan Singh	Fitter	11-03-1988	62	84	144/90	109 mg/dl	"B"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal	
265	Manbodh Mandal	Late Gopal Mandal	Fitter	08-05-1985	78		130/90	90 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
266	Kanai Bauri	Madhusudan Bauri	Assistant Fitter	12-03-1994	61		110/70	151 mg/dl	"O"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
267	Binay Pandit	Binod Pandit	Operator	10-06-1991	82	74	120/90	107 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.00) BE	Normal	
268	Bablu Garai	Sakari Garai	Fitter	28-01-1986	59		109/74	103 mg/dl	"B"	Positive	Normal		Normal	Distance 6/6	N6 Near	Normal	
269	Sanjeet Kumar	Late Subash Ray	Fitter	13-02-1994	57	87	140/90	148 mg/dl	"B"	Positive			Normal	Distance 6/6	N6 Near	Normal	
270	Ramkrishna Bauri	Late Gurupada Bauri	Belt Jointer	01-01-1986	64	76	120/80	145 mg/dl	"0"	Positive	Normal		Normal	Distance 6/6	Near BE=+1.50D	Normal	
271	Rahul Kumar Yadav	Dadan Yadav	Assistant Fitter	23-08-1998	67	90	120/80	96 mg/dl	"0"	Positive	Normal			Distance 6/9.(+1.00) BE	N6 Near	Normal	
272	Rupesh Kumar	Lalbabu Singh	Senior Guide	16-06-1992	63	67	144/90	109 mg/dl	"AB"	Positive	I ion i		Normal	Distance 6/6	N6 Near	Normal	
273	Rohit Kumar Mahanta	Janak Kumar Mahanta	Data Entry Operator	19-04-1998	59	111	130/90	90 mg/dl	"0"	Positive	Normal	Normal		Distance 6/6	N6 Near	Normal	
274	Bappaditya Mandal	Rakhahari Mandal	Electrician	04-02-1992	65	96	150/100	151 mg/dl	"A"	Negative		Normal	Normal	Distance 6/6	N6 Near	Normal	
275	Satyendra Samanta	Tapan Kumar Samanta	Technician	27-07-1992	I E IVE	104	120/90	107 mg/dl	"A"	Positive			Normal	Distance 6/6	N6 Near	Normal	
276	Satyanarayan Gauda	Raju Gauda	Fitter	05-05-1991	63	90	110/80	En and	"B"	Positive	Normal	Normal	Normal	Distance 6/6	Near=+1.00(BE)	Normal	
277	Indrajeet Yadav	Atma Ram Yadav	2nd Class Boiler Operator	01-07-1988	78		130/80	92 mg/dl	"O"	Positive	Normal		Normal	Distance 6/6	N6 Near	Normal	
278	Arun Kumar Patra	Gaurahari Patra	Senior Electrician	10-09-1986	60	80	110/70	117 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
279	Nayan Bhandary	Kiriti Bhandary	Control Room	15-11-1989	72	101	130/80	409 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
280	Biplab Majumder	Santosh Kumar Majumder	Foreman	01-02-1978	82		140/90	148 mg/dl	"B"	Positive				6/9 Distance, (BE=- 0.75D)6/6 with glass	N6 BE Near	Normal	
281	Ravi Kumar Singh	Bijay Singh	Control Room	15-09-1995	65		120/80	145 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
283	Pijush Maiti	Arumay Maiti	Fitter	05-09-1990	56	186	120/80	96 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	



	DATE: 15 11 4	021						of Employ			DATA	FTFDE					
Sl. No.	Employee's Name (Mr.)	Father's name (Shri)	Designatio n	D.O.B.	Weight	PR	вр	CBG	Blood	RH factor	ECG	X-RAY	Audiom atry	Eye Vision (Distance)	Eye Vision (Near)	Colour Vision	Ren
284	Rohit Kumar	Chandrasekhar	Senior Fitter	17-11-1993	86	109	144/90	109 mg/dl	"A"	Positive	Normal	Normal	Normal	Distance 6/6	N6 Near	Normal	
285	Aalok Kumar Singh	Kishore Singh	Fitter	01-01-1995	70	80	130/90	90 mg/dl	"O"	Negative	Normal	Normal		Distance 6/6		Normal	
286		Subodh Chatterjee	Electrician	08-03-1994	84	74	150/100	151 mg/dl	"O"	Positive			Normal	Distance 6/6	N6 with glass(+1.50D) BE	Normal	
287	Sudhakar Singh	Onkarnath Singh	Senior Fitter	01-01-1984	65	80	120/90	107 mg/dl	"A"	Positive	Normal		Normal	Distance 6/6	N6 with glass(+1.50D	Normal	
288	Sandeep Kumar Sinha	Krishnadeo Prasad Sinha	Fitter	10-10-1986	55	84	110/80		"O"	Positive			Normal	Distance 6/6	N6 Near	Normal	
289	Bipadtaran Chowbey	Ashok Chowbey	Belt Jointer	05-01-1993	64	99	130/80	92 mg/dl	"O"	Negative	Normal		Normal	Distance 6/6	N6 Near	Normal	
290	Sourav Konar	Madhusudan Konar	Technician	15-05-1997	58	84	110/70	117 mg/dl	"O"	Positive				Distance 6/6 with glass(- 0.25D)	Near N6 BE	Normal	
291	Barun Samanta	Sasanka Samanta	Senior Fitter	19-08-1994	75	109	130/80	409 mg/dl	"AB"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal	
292	Avishek Giri	Ganesh Giri	Electrician	18-03-1995	82	80	140/90	148 mg/dl	"O"	Positive	Abnorma	Normal	Normal	Distance 6/6	N6 Near	Normal	
293	Subham Mishra	Kailash Mishra	Field Operator	09-07-1996	65	74	120/80	145 mg/dl	"B"	Positive	Normal	Normal	Normal	Distance 6/6	N6 with glass +1.50 D(BE)	Normal	
294	Subhajit Dutta	Late Gopal Dutta	Field Operator	03-09-1994	60	80	120/80	96 mg/dl	"O"	Positive	Normal	Normal	1	Distance 6/6	No Near	Normal	
295	Chandi Kumar Shaw	Udayshankar Shaw	Forklift Operator	12-04-1988	85	84	144/90	109 mg/dl	"B"	Positive		Normal	Normal	Distance 6/6	N6 Near	Normal	
296	Mintu Mondal	Gouranga Mondal	Electrician	23-06-1992	72	99	130/90	90 mg/dl	"B"	Positive	Norma	Norma	Normal	Distance 6/6	N6 Near	Normal	



Annexure – 14

F. No. J-11011/201/2013-IA II (I)

Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan Jor Bagh Road, Aliganj, New Delhi - 110003 E-mail: satish.garkoti@nic.in Tel: 011-24695316

Dated: 21st December, 2016

To

M/s Shakambhari Ispat and Power Ltd., Village Pavatpur, Radhamadhabpur, Madand, PO-Bortoria, District Purulia, West Bengal.

Subject: Expansion of Integrated Steel Plant (from existing 0.074 MTPA Steel Billets to 0.3 MTPA Rolled products and 0.2 MTPA Billet) with captive power plant of 99 MW [65 MW (6 MW existing + 59 MW proposed) from AFBC and 34 MW (6 MW existing + 28 MW proposed) from WHRB] of M/s Shakambhari Ispat and Power Ltd., located at Village Pavatpur, Radhamadhabpur, Madandih, PO-Bortoria, District Purulia, West Bengal – Environmental Clearance regarding.

Sir,

This has reference to your online application No. IA/WB/IND/48189/2014 Dated 6th February, 2016 along with copies of EIA/EMP report seeking environmental clearance under the provisions of the EIA Notification, 2006 for the project mentioned above. An application for proposed integrated Steel plant of M/s Shakambhari Ispat and Power Ltd. was initially received in the Ministry on 05.03.2013 for obtaining Terms of References (TORs) as per EIA Notification, 2006. The revised Form- I was received on 04.11.2014. The project was appraised by the Expert Appraisal Committee (Industry) during its meeting held on 11.12.2014 and prescribed TORs to the project for undertaking detailed EIA study for the purpose of obtaining environmental clearance. Accordingly, the Ministry of Environment, Forest and Climate Change had prescribed TORs to the project vide letter No. J-11011/201/2013-IAII(I) dated 13th April, 2015. The proposed project activity is listed at S.No. 3(a) under Category 'A' of the Schedule of EIA Notification 2006.

- 2.0 It is an existing steel plant located at Village Pavatpur, P.O. Bartoria, P.S. Neturia, District Purulia, West Bengal. The proposal is for enhancement of integrated steel plant production from 0.074 MTPA Steel Billets to 0.3 MTPA Rolled products and 0.2 MTPA Billet. The power plant capacity will be enhanced from 12 MW to 99 MW [6 MW to 65 MW from AFBC and 6 MW to 34 MW from WHRB]. The project site lies at 23° 36° 52" N Latitude and 86° 47' 12" E Longitude. The project site is well connected by road and rail. The National Highway NH-2 is about 27 Km away from the existing site. The nearest railway station is Ramkanali, which is about 7.5 km away from the site. Raniganj and Durgapur are the nearest cities where market facilities are available.
- 3.0 The company has already acquired 177.19Acres land at Madandih in Bartoria, Purulia, West Bengal in which their existing plant is running and the expansion will be

accommodated in the vacant space of this land. The project essentially aims at installing facilities for the manufacture of 0.5 MTPA steel billets and converts 0.3 MTPA billets to rolled product and balance billets for sale or supply to sister units. The configuration of the existing and the proposed plant is as under:

Sl.No.	Facilities	C C	onfiguratio	ns	Product	Production	End Use	
		Existing	Expansion	Final	el crasidadel	18 19 N	Use	
1. %	Coal Washery	O waiter se	0.74 MTPA	0.74 MTPA	Clean Coal Middlings Rejects	0.33 MTPA 0.28 MTPA 0.05 MTPA	DRI AFBC Sale	
2.	Rolling Mill	400 TPD	600 TPD	1,000 TPD	Rolled product	3,00,000 TPA	Sale	
3.	Iron Ore Beneficiat ion	Tava? Savat Tava? Savat Tavat Ta	0.63 MTPA	0.63 MTPA	Beneficiated IO Tailings	0.394 MTPA 0.236 MTPA	Pellet Sale/ Landfill	
4.	Sinter Plant	Newvei	1X20 m ²	1X20 m ²	Sinter	1,98,000 TPA	MBF	
5.	Pellet Plant		1X1870 TPD	1X1870 TPD	Pellet	5,82,000 TPA	DRI	
6.	DRI with Pre- heater	3x100TP D	4x350 TPD	3x100TP D 4x350 TPD	Sponge Iron	5,44,000 TPA	IF	
7.	MBF	Tiff) ,etuni	1x350m ³	1x350m ³	Hot metal	t metal 2,49,900 TPA		
8.	Ferro Alloy Plant	r becque namerine	2X12 MVA 2X12 MVA	2X12 MVA 2X12 MVA	Fe-Mn Si-Mn	36,608TPA 26,542 TPA	IF .	
9.	IF with LRF & or AOD	1x8T,2x1 5T,2x12T ,8H	2X35T, 4X25T	1x8T,2x1 5T 2X35T,4 X25T	Billet	5,23,950TP A with Ferro-alloys	Rolling Mill	
10.	Oxygen Plant	- Bara and	225 m ³	225 m ³	Oxygen	28 Ass shari	MBF	
11.	Lime Plant	el yawa n	250 TPD	250 TPD	Calcined Lime	80,000 TPA	DRI/Bill et/Sinter	
12.	AFBC	6MW	59 MW	65 MW	- Line	65 MW Power	Internal Use	
13.	WHRB	6MW	28 MW	34 MW	1 - a or lagro	34 MW Power	Internal Use	

The details of raw material required for the plant is presented in the following table.



Sl. No.	Raw Material	Quantity in TPA	Sourcing	Mode of transport Road	
1.	Coke	1,92,871	Local purchase		
2.	Coal for Washery	7,76,816	Eastern Coal Field	Rail	
3.	Imported Coal	2,60,064	Imported Coal	Ship	
4.	Mn ore	1,31,974	MOIL/Odisha	Rail/Road	
5.	Dolomite	24,488	Madhya Pradesh	Rail/Road	
6.	Iron ore lump	3,49,460	Odisha/Jharkhand	Rail/Road	
7.	Iron Ore fines(Pellet plant)	6,00,000	Essel Mining/Sirajjudin & co	Rail/Road	
8.	Iron Ore fines(Sinter plant)	1,82,952	Odisha/Jharkhand	Rail/Road	
9.	Bentonite'	6,000	Import	Ship	
10.	Scrap	9,000	In plant generation	Road	
11.	Cashing Sheet	265	Local Purchase	Road	

- 4.0 It has been mentioned that in order to control pollution ESPs will be provided with stacks for DRI kilns, Sinter plant and CFBC; Bag filter with stack for IFs, Pellet Plant, Lime Plant and Raw Material Handling Plant (RMHP). It has been proposed to plant about 50,000 local trees @ 10,000 trees per year to develop green belt (with >15,000 trees per ha) to control dust and noise pollution. Zero discharge would be adopted for the plant and 98.5% of water to be cleaned and recycled. The waste water generated will be used in green belt development and dust suppression. The Blast Furnace slag will be sent to the cement plant, the BF sludge to the ceramic plant, fly ash will be sent to the brick kilns, coal washery reject will be sent to briquette making, iron ore tailings for sale for tile making, dolo char will be burnt in AFBC and excess ash will be stored within the plant premises for the period of 2 years. For future storage of iron ore tailing and excess ash, the proponent will submit the land acquisition details to the Ministry.
- 5.0 It is estimated that the water requirement for the proposed expansion would be about 559 m³/hr i.e. 13,416 m³/day. The water will be drawn from the Damodar water reservoir in Damodar river, which is 13 km away from project site through DVC in phases. Clearance to draw 0.55 MGD has already been obtained. The total power requirement for the plant is 136.4MW, out of which 99 MW will be sourced from CPP and balance 37.4 MW will be drawn from DVC. The clearance for drawing 50 MW power from DVC grid is in place.
- 6.0 The Public Hearing for the proposed expansion project was held on 14th October, 2015 at Sampriti Sadan i.e Panchayat Samity Hall in Neturia of Purulia District of West Bengal under the chairmanship of Additional District Magistrate (Development), District Purulia.
- 7.0 The proposal was considered by the Expert Appraisal Committee (EAC) for Industry-I Sector during its 4th meeting of held on 25th 26th February, 2016 and 7th meeting held on 30th May to 1st June, 2016 and recommended the project for Environmental Clearance and stipulated Specific Conditions along with other environmental conditions while considering for accord of environmental clearance.
- 8.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I)

and hereby decided to grant environmental clearance to the above mentioned expansion of integrated Steel Plant (from existing 0.074 MTPA Steel Billets to 0.3 MTPA Rolled products and 0.2 MTPA Billet) with captive power plant of 99 MW [65 MW (6 MW existing + 59 MW proposed) from AFBC and 34 MW (6 MW existing + 28 MW proposed) from WHRB] of M/s Shakambhari Ispat and Power Ltd., under the provision of EIA Notification 2006, as amended, subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITION:

- 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.
- ii. No dumping is permitted in the abandoned coal mines 2B and 2C in nearby Parbelia Village. The iron ore tailing 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.
- 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 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.
- iv. The ETP for Mini Blast Furnace effluent should be designed to meet Cyanide standard as notified by the MoEFCC.
- v. No effluent shall be discharged outside the plant premises and 'zero' discharge shall be adopted.
- 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.
- 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.
- 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,

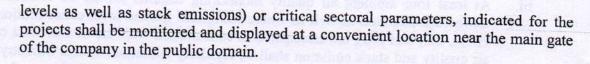
- dust suppression and green belt development. ETP sludge should be disposed off scientifically.
- ix. All the coal fines, char from DRI plant shall be utilized and no char shall be used for briquette making or disposed off anywhere else. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.
- 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.
- xii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- 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.
- xv. Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic 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.
- 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.
- 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.
- 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.
- 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.

- xx. All the commitments made to the public during Public Hearing/public consultation meeting shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- 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 report in this regard shall be submitted to the Ministry's Regional Office.
- xxii. 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 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.
- 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 non-compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.
- xxiv. The project proponent shall provide for solar light, system for all common areas, street lights, villages, parking around project area and maintain the same regularly.
- xxv. The project proponent shall provide for LED lights in their offices and residential areas.
- xxvi. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

B. GENERAL CONDITIONS:

i. The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government.

- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
- 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, PM_{2.5}, SO₂ and NO_X 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 Bhubneswar and the SPCB/CPCB once in six months.
- 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 form time to time. The treated wastewater shall be utilized for plantation purpose.
- v. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- 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.
- viii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in 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.
- 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 (MoEFCC) 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 Bhubneswar. The funds so provided shall not be diverted for any other purpose.
- x. 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.
- 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 MOEFCC at Bhubneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, SO₂, NOx (ambient



- xii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubneswar / CPCB / SPCB shall monitor the stipulated conditions.
- 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 MOEFCC at Bhubneswar by e-mail.
- xiv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEFCC) at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubneswar.
- 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.
- 9.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 10.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- 11.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

(Dr. Satish C. Garkoti) Scientist 'F'

Copy to:-

1. The Secretary, Department of Environment, Government of West Bengal.

2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.

3. The Chairman, West Bengal State Pollution Control Board, Paribesh Bhawan, Building No. 10-A, Block-LA, Sector 3, Salt Lake City, Kolkata – 700 091.

4. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandersekharpur, Bhubaneswar – 751023.

5. Guard File / Record File/Monitoring file.

(Br. Satish C. Garkoti) Scientist 'F'

F. No. J-11011/201/2013-IA.II (I) Government of India Ministry of Environment, Forest and Climate Change

(Impact Assessment Division)

Indira Paryavaran Bhawan Jor Bagh Road, Aligani, New Delhi - 110003

E-mail: dirind-moefcc@gov.in

Tel: 011-24695368

Dated: 29th April, 2020

To

Shri Deepak Kumar Aggarwal, Director, M/s. Shakambari Ispat and Power Limited, Village Pavatpur, Radhamadhabpur, Madandih, PO - Bortoria. District Purulia, West Bengal.

Subject:

Expansion of Integrated Steel Plant (from existing 0.074 MTPA Steel Billets to 0.3 MTPA Rolled products and 0.2 MTPA Billet) with captive power plant of 99 MW [65 MW (6 MW existing + 59 MW proposed) from AFBC and 34 MW (6 MW existing + 28 MW proposed) from WHRB] of M/s. Shakambhari Ispat and Power Limited located at Village Pavatpur, Radhamadhabpur, Madandih. PO-Bortoria, District Purulia, West Bengal - Amendment in Environmental Clearance -reg.

Sir,

This refers to the application of M/s. Shakambhari Ispat and Power Limited made vide online proposal no. IA/WB/IND/48189/2014 dated 30th November, 2018 seeking amendment in the environmental clearance accorded by the MoEF&CC, New Delhi on 21st December, 2016 vide letter No. J-11011/201/2013-IA II(I) accorded for expansion of Integrated Steel Plant (from existing 0.074 MTPA Steel Billets to 0.3 MTPA Rolled products and 0.2 MTPA Billet) with captive power plant of 99 MW [65 MW (6 MW existing + 59 MW proposed) from AFBC and 34 MW (6 MW existing + 28 MW proposed) from WHRB] located at Village Pavatpur, Radhamadhabpur, Madandih, PO-Bortoria, District Purulia, West Bengal.

The proposal cited above was considered during the 3rd meeting of Reconstituted Expert Appraisal Committee [REAC] (Industry-I) held on 9-11th January, 2019. The EAC proceedings of the proposal cited above is given as below.

Details submitted by the project proponent:

M/s Shakambhari Ispat & Power Limited has implemented some of the facilities and some of the facilities are yet to be implemented. It is proposed to change some of the configuration without increasing the overall production capacities.

The units / capacities for which Environmental clearance has been accorded from 3.0 MoEF&CC, the implemented units, the units not implemented along with amendment required for units, are presented below:

Sl. No.	Faciliti es	Capacities as per EC letter No. J- 11011/201/2013- IAII(1) dated 21.12.2016		Existing Status		1			
				Implemen ted	Unit not	Amendment Required (Final Configuration)		Remarks	
		Configura tion	Producti on	capacities	Implemen ted	Configura tion	Producti on		
1	Inductio n Furnace with Caster	1x8 T 2X15 T 2x12 T 2x35T 4x25T	5,23,950 TPA	1x8T 2X15 T 2x12T 2x25T	2x25T 2x35T	9x25 T	5,23,950 TPA	5x25T Induction Furnaces shall be installed by replacing already implement ted 1x8T 2x12T, 2x15 T and by revising 2x35T capacity furnaces	
		232 Т		112 T	120 T	225 T		which is yet to be implemented. Total number ounits reduced from 11 to 9.	
2	Sponge Iron / DRI with Pre- Heater	3x100 TPD 4x350 TPD	5,44,000 TPA	3x100 TPD, 2x350 TPD	2x350 TPD	3x100 TPD, 2x350 TPD, 1x600 TPD, 1X100 TPD	5,44,000 TPA	1x600 TPD and 1x100 TPD DR Kiln shall be installed instead of 2x350 TPD DR Kilns (no yet impleme ted) to	
		1700 TPD		1000 TPD	700 TPD	1700 TPD		achieve better producti ty, high steam generati , less lan & water	

SI. No.	Faciliti es	Capacities as per EC letter No. J- 11011/201/2013- IAII(I) dated 21.12.2016		Existing Status					
				Implemen ted	Unit not	Amendment Required (Final Configuration)		Remarks	
		Configura tion	Producti on	capacities	Implemen ted	Configura tion	Producti on		
					· · ·			requireme nt.	
	AFBC / CFBC	65 MW	65 MW	32 MW	33 MW	62 MW	62 MW	Capacity of AFBC/CF BC reduced from 65 MW to 62 MW. Capacity of WHRB increased from 34 MW to 37 MW due to improved steam generation from proposed combinati on of (1x600TP D +1 x100 TPD) DRI.	
3	WHRB	34 MW	34 MW	20 MW	14 MW	37 MW	37 MW		
	TOTAL CPP	99 MW		52 MW	47 MW	99 MW			
4.	Ferro Alloy Plant	2x12 MVA 2x12 MVA	FeMn- 36,608T PA SiMn- 26,542 TPA	•	2x12 MVA 2x12 MVA	4x9 MVA FeMn / SiMn/ FeCr/ FeSi /Pig Iron	63150 TPA	Size of each SAF is reduced from 12 MVA to 9MVA, thereby reducing the total	
		4X12 63150 MVA TPA		4X12 MVA		63150 TPA	installed capacity from 48MVA to 36 MVA.		
5.	Rolling Mill	1000 TPD	3,00,000 TPA	600 TPD	400 TPD	1000 TPD	3,00,000 TPA		
6	Coal Washer y	0.74 MTPA	Clean Coal- 0.33MTP A	-	0.74 MTPA	0.74 MTPA	Clean Coal- 0.33MTP A	No Change	

SI. No.	Faciliti es	Capacities as per EC letter No. J- 11011/201/2013- IAII(I) dated 21.12.2016		Existing	g Status	Amendment Required (Final Configuration)		Remarks
				Implemen ted	Unit not			
		Configura tion	Producti on	capacities	Implemen ted	Configura tion	Producti on	
			Middling s- 0.28MTP A Rejects- 0.05 MTPA				Middling S- 0.28MTP A Rejects- 0.05 MTPA	
7	Iron Ore Benefici ation	0.63 MTPA	Beneficia ted IO- 0.394 MTPA Tailings - 0.236 MTPA	_	0.63 MTPA	0.63 MTPA	Beneficia ted IO- 0.394 MTPA Tailings - 0.236 MTPA	
8	Sinter Plant	1x20 m ²	1,98,000 TPA	2	1x20 m ²	1x20 m ²	1,98,000 TPA	
9	Pellet Plant	1x1870 TPD	5,82,000 TPA	(€0)	1x1870 TPD	1x1870 TPD	5,82,000 TPA	
10	MBF	1x350 m ³	2,49,900 TPA		1x350 m ³	1x350 m ³	2,49,900 TPA	
11	Oxygen Plant	225 m ³		•	225 m ³	225 m ³	170	
12	Lime Plant	250 TPD	80,000 TPA	-	250 TPD	250 TPD	80,000 TPA	

- The salient features of the amendment proposal are as follows, 4.0
 - Overall coal consumption shall be reduced by 38,160 TPA resulting in reduced pollution load.
 - ✓ Overall Dust load shall be reduced by 11,515 kg/annum ✓ Land requirement shall be reduced by 2.25 acres.

 - ✓ Power generation shall be increased by 3 MW through WHRB and reducing same through CFBC Boiler.
 - Rolling Mill based on direct charging of hot Billets. No Reheating Furnace.
 - ✓ DRI Dolochar shall be 100% consumed in the Power Plant. Other iron bearing dust and mill scales shall be consumed in Sinter Plant.
- EIA Consultant: M/s. Envirotech East Pvt. Ltd., NABET Accreditation as per QCI 5.0 NABET list of 17th December, 2018.

Observations of the committee:

The committee observed that the overall production capacity will remain unchanged and the larger configuration will reduce the pollution load.

Recommendations of the committee:

After detailed deliberations, the committee recommended for amendment in the 7.0 configuration as proposed in the table given at paragraph 3 above.

- 8.0 The Ministry of Environment, Forest and Climate Change (MoEF&CC) has considered the aforesaid proposal based on the recommendations of the Expert Appraisal Committee (Industry 1) and hereby decided to grant amendment in the EC dated 21/12/2016 as mentioned in the table given at paragraph 3 above subject to the following additional condition:
 - 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.
- 9.0 All other terms and conditions mentioned in the earlier EC letter no. J-11011/201/2013-IA.II(I) dated 21/12/2016 shall remain unchanged.
- 10.0 The PP shall obtain fresh environmental clearance in case of change in scope of the project if any.

This issues with the approval of Competent Authority.

Yours faithfully,

(A.K. Agrawal)
Director

Copy to:-

- 1. Secretary, Department of Environment, Government of West Bengal, Secretariat Kolkata.
- 2. Deputy Director General (Central), Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandrasekharpur, Bhubneshwar-751 023.
- 3. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
- 4. Chairman, West Bengal State Pollution Control Board, Paribesh Bhawan, 10A- Block LA, Sector -III, Salt Lake City, Kolkatta 700 098.
- 5. Member Secretary, Central Ground Water Authority, West Block –II, Wing -3, Sector I, R.K.Puram, New Delhi 110086.
- 6. District Collector, Purulia District, State of West Bengal.
- 7. Guard File / Record file / Monitoring file.

8. MOEF&CC Website.

(A.K. Agrawał)

Director

Annexure – 15

ENVIRONMENTAL DATA DISPLAY BOARD

