

SHAKAMBHARI ISPAT & POWER LTD.

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

Ref:-SIPL/SMC/MoEFCC/APRIL-SEPT, 2021

Date: 04.12.2021

To,
The IGF & Incharge
GOI, MoEF&CC,
Integrated Regional Office, Kolkata
IB-198, Salt Lake City, Sector-III
Kolkata - 700106

SUB: Six Monthly (April 2021 to Sept. 2021) 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 April 2021 to Sept. 2021) 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

MADANDIF

PURILITIA

Engl: on above

Encl: as above

Copy to:

The Sr. Environmental Engineer, West Bengal Pollution Control Board, Asansol Regional Office, Dr. B.C. Roy Road, KSTP, PO-Ramkrishna Mission, Dist.-Paschim Bardhaman (WB)-713305



SIX MONTHLY COMPLIANCE REPORT

April, 2021- September, 2021



PREPARED BY:

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

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:

APRIL-2021 TO SEPTEMBER-2021

PROJECT LOCATION:

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



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

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	:	April, 2021–September, 2021

SI.	CONDITIONS	COMPLIANCE STATUS
No.	FIG CONDITION	
111	FIC 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 OCEMS connected to CPCB portal to monitor the air emissions. Latest stack monitoring report is attached as Annexure-1 .
ii.	No dumping is permitted in the abandoned coal mines 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.	No dumping being done in the abandoned coal mines 2B and 2C nearby Parbelia village. Adequate arrangement has been made proper handling of above materials.
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. Fixed type water sprinklers for dust suppression at raw material handling system along the conveyor, finished product house area, cooler discharge, along with Kiln axis and all other strategic locations. SIPL have deployed movable water tankers for dust suppression 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.	It will be complied with. No Mini Blast Furnace has been installed so far.
V.	No effluent shall be discharged outside the plant premises and 'zero' discharge shall be adopted.	We are adapting recycle and reuse practice 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	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 appearated to control

	below 50 mg/Nm3 and installing energy efficient technology.	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.
vili.	Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent should be treated and used for ash handling, dust suppression and green belt development. ETP sludge should be disposed off scientifically.	All possible attempts are made to ensure optimal use of water within the factory premises. We have rain water harvesting pond to harvest the rain water and reduce the water consumption.
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.	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 95% 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 92% 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-3 We have already purchased automated road sweeping 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 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.

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

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. Latest 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 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. Copy of the agreement is enclosed as Annexure-9 Induction Furnace slag, silico manganese slag and bottom ash are being used for land filling and road construction 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. Copy of the agreement is enclosed as Annexure-9
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.
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.	Progressive measures have taken for extensive plantation by using indigenous species as per guideline. Some pictures of plantation are attached as Annexure-5.

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29.04.2020

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 study material to the school students, repairing & coloring of school buildings, vehicle parking, Drinking water to nearby village people. Drinking water system at nearby Harmadih Govt. Hospital. Ladies toilet facility at Shri Biranchidham Temple, Football kit to the local youth. Monetary support for cultural programs in local communities etc. We have dedicated HR & IR personnel to look after the welfare activities and redressing of issues if any.
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.	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 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. 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 inter-alia address (i) Standard operating process/procedure to being	Complied. SIPL have implemented standard operating procedure to look into any infringement/deviation/violation of environmental or forest norms/conditions.

Ref: MoEF&CC F. No. J-11011/201/2013-IA II (I) Date: 21.12.2016 and EC amendment, date 29 04.2020

	into focus any infringement/deviation/ violation	SIPL have also the Hierarchical system/ Administrative
	of environmental or forest norms/conditions, (ii)	order to deal with environmental issues and compliance
	Hierarchical system or Administrative order of	of EC conditions.
	the Company to deal with environmental issues	CMD
	and ensuring compliance to the environmental	CMD
	clearance conditions and (iii) System of reporting	EO-CORPORATE
	of noncompliance/ violation environmental	
	norms to the Board of Directors of the company	Head Environment Management Lell Unit Head
	and/or stakeholders or shareholders.	Operation Head
		Environment Health Safety
		Env. Officer / Engs. Modical Officer Safety Officer
	v'	SIPL have in placed reporting system for non - compliance
		/ violation of environmental norms.
		Board of Directors
		CMD
		ED - CORPORATE
		Island Environment Management Cell Unit Head
		Exhibitorinate (Caper Meast) Surface (Caper Meast)
		Ene Officer / Engg Medical Officer Seriety Officer
xxiv.	The project proponent shall provide for solar	Solar lighting system have been installed at required
	light system for all common areas, street lights,	places.
	villages, parking around project area and	
	maintain the same regularly.	
xxv.	The project proponent shall provide for LED	Complied.
	lights in their offices and residential areas.	
xxvi.	Provision shall be made for the housing of	It is being complied.
	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.	
GENE	RAL CONDITIOS:	Y
i.	The project authorities must strictly adhere to	It is being adhered as per the stipulation made by WBPCB
	the stipulations made by the West Bengal	and State Government. Consent to Operate obtained
	Pollution Control Board and State Government.	from WBPCB is attached as Annexure –11.
ii.	No further expansion or modification in the	No further modification or expansion will be undertaken
	plant shall be carried out without prior approval	without prior approval of the MoEF&CC.
	of the Ministry of Environment, Forests and	
	Climate Change (MoEF&CC).	
iii.	At least four ambient air quality monitoring	Ambient Air Quality Monitoring being carried on as per
	stations should be established in the downward	direction in consideration of maximum ground level
	direction as well as where maximum ground	concentration of PM ₁₀ , PM _{2.5} , SO ₂ , and NO _x .
	level concentration of PM10, PM _{2.5} , SO ₂ and NO _x	Latest Ambient Air Quality monitoring report and stack
0	are anticipated in consultation with the SPCB.	monitoring report is enclosed as Annexure-6 &
	Data on ambient air quality and stack emission	Annexure-1

	shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar 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 from time to time. The treated wastewater shall be utilized for plantation purpose.	Being complied.
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.
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 structure has been developed within the plant premises to harvest the rain water.
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 recommended in EIA/EMP reports. Socio-economic development of local community has already undertaken through different CSR activities and generating the employment for people of surrounding villages.
ix.	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEF&CC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	Requisite funds being released towards capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by MoEF&CC. Accordingly necessary facilities like ESPs followed by silos for de-dusting during boiler operation, bag filters along with dust extraction system, Water sprinkling system for fugitive dust suppression, water tankers 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	Clearance letter is sent to concerned local body. The EC

	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.	copy is attached as Annexure-13
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	Being complied. Compliance status being periodically uploaded on the company website http://shakambhariispat.com/environmental-compliance
	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.	
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	Six monthly reports on the status of the compliance of the stipulated environmental conditions including result of monitored data being 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.
	Ministry at Bhubaneswar/ CPCB/SPCB shall monitor the stipulated conditions.	11.05.2020
xiii.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional	Being complied. The environment statement (Form-V) for Financial Year 2020-21 has been 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. The submitted copy of Environment Statement is attached as Annexure-14.
	Office of the MoEF&CC at Bhubaneswar by e- mail.	Complied
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	Complied.
	advertised within seven days from the date of issue of the clearance letter, at least in two local	E MAN OH!

Ref: MoEF&CC F. No. J-11011/201/2013-IA II (I) Date: 21.12.2016 and EC amendment, 021ed: 29.04.2020

	newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and copy of the same should be forwarded to the Regional Office at Bhubaneswar	
XV.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Financial closure as well as date of start of land development work has already been informed.
Addi	tional condition as per EC Amended F. No. J-11011/	201/2013-IA.II (I) dated 29th 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













TEST REPORT

FORMAT NO: ENV/FM/38

Name of the	:	Shakambl	ıari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Pow	er l	Unit
Industry											440		
Address : Vill. – Madandih, P.O. – Bartoria, P.S. – Ne					a, P.S Ne	turia,		Sampling Date : 22.09.2021					
		Dist – Pur	ulia	(WB)-723121			Period of Analysis		:	25.09.2021 - 25.09.2021			
							Date of Issue		:	27.09.2021			
Sampling Plan	1 & I	Procedure		ENV/SOP/01	Deviation	from the Sampli	ng	Method and Plan		No	Type of	:	Stack
											Sample		Emission
Sample ID No. : ENV/64A/Sep./A/I					Report No.	:	ENV/64A/Sep./T	R(A)/I/2	1-22			

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln (No. 1 & 2) (100 TPD each) (attache	Rotary Kiln (No. 1 & 2) (100 TPD each) (attached 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 (each)	Height of sampling port	:	15.0		
			(mtr.) (from G.L.)				
Emission Due to	:	Oxidation of Coal & Reduction of Fe-Ore					
Fuel Used	:	Coal	Permanent Platform & Ladder	•	: Yes		
Working Fuel	:	Rated - 5.63 MT/hr./Kiln					
Consumption		Working - 5.12 MT/hr./Kiln					
Pollution Control Device	:	W.H.R.B with E.S.P			·		

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.					
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	138.0
2.	Barometric Pressure	mm of Hg.	-	:	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	10.26
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	81726.76
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	778.95
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	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D		40.54
	Matter (at 10.8% CO ₂)		3685/D 3685M-98 (reapproved 2005) : Sec. 11		
	b) Concentration of Particulate		(Vol. 3 11.07): 2011	:	45.04
	Matter (at 12% CO ₂)				
Remar	Matter (at 12% CO ₂)		(-	

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager

Approved By:

Dr. AJOY PAUL Quality Manager

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

Overseas : * UAE * Qatar * Netherlands













TEST REPORT

FORMAT NO: ENV/FM/38

Name of the	:	Shakambh	nari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Pow	er l	Jnit
Industry													
Address	:	Vill. – Mad	land	lih, P.O. – Bartori	a, P.S Ne	turia,		Sampling Date		:	22.09.2021		
		Dist - Pur	ulia	, (WB)- 723121				Period of Analysis		:	25.09.2021	- 2	5.09.2021
								Date of Issue		:	27.09.2021		
Sampling Plan	ı &	Procedure	:	ENV/SOP/01	Deviation	n from the Sampli	ng	Method and Plan	:	No	Type of		Stack
											Sample		Emission
Sample ID No. : ENV/64A/Sep./A/II Report No. : ENV/64A/Sep./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	ed to common Stack)			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	35	.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)		2.0	
Capacity	:	100 TPD	Height of sampling port (mtr.) (from G.L.)		15	.0
Emission Due to	:	Oxidation of Coal & Reduction of Fe-Ore				
Fuel Used	:	Coal	Permanent Platform & Ladder	•	:	Yes
Working Fuel	:	Rated - 5.63 MT/hr./Kiln				
Consumption		Working - 5.12 MT/hr./Kiln				
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)	-:-	142.0
2.	Barometric Pressure	mm of Hg.		:	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)		11.14
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	: 4	88752.06
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	· :	759.07
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003		10.6
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	-:	<1.0
8.	a) Concentration of Particulate	mg/Nm ³			66.21
	Matter (at 10.6% CO ₂)	O,	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D		
	b) Concentration of Particulate		3685/D 3685M-98 (reapproved 2005):	:	74.95
	Matter (at 12% CO ₂)		Sec. 11 (Vol. 3 11.07) : 2011		

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager

Approved By:

Dr. AJOY PAUL Quality Manager

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TEST REPORT

FORMAT NO: ENV/FM/38

Name of the	:	Shakambl	nari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Pov	er l	Unit
Industry													
Address	:	Vill. – Mac	lanc	lih, P.O. – Bartori	a, P.S Ne	turia,		Sampling Date		:	23.09.2021		
		Dist – Pur	ulia	(WB)-723121				Period of Analysis		:	25.09.2021	- 2	5.09.2021
								Date of Issue		:	27.09.2021		
Sampling Plar	1 &	Procedure	:	ENV/SOP/01	Deviation	n from the Sampli	ng	Method and Plan	:	No	Type of	:	Stack
											Sample		Emission
Sample ID No.	Sample ID No. : ENV/64A/Sep./A/V Report No. : ENV/64A/Sep./TR(A)/V/21-22												

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	AFBC Boiler			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	60.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	2.10
Capacity	:	36 TPH (Running – 34 TPH)	Height of sampling port (mtr.) (from G.L.)	:	20.0
Emission Due to	:	Oxidation of Coal & Dolochar			
Fuel Used	:	Coal & Dolochar	Permanent Platform & Ladden	•	: Yes
Working Fuel	:	Coal – 150 TPD & Dolochar – 132 TPD			
Consumption					
Pollution Control Device	:	E.S.P			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1	Flue Gas Temperature	°C.	IS 11255 (Part 1)		144.0
2.	Barometric Pressure	mm of Hg.			755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)		9.44
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)		81989.09
5.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003		481.62
6.	Concentration of NO _x (at 6% O ₂)	mg/Nm ³	IS: 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009: Sec 11 (Vol. 11.07): 2011	:	146.17
7.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003		10.2
3.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	:	<1.0
9.	a) Concentration of Particulate Matter (at 10.2% CO ₂)	mg/Nm³	IS 11255 (Part – 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005):	:	13.90
	b) Concentration of Particulate Matter (at 12% CO ₂)	mg/ Mm	Sec. 11 (Vol. 3 11.07) : 2011	:	16.35

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager

Approved By:

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TEST REPORT

FORMAT NO: ENV/FM/38

Name of the	:	Shakambh	ıari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Pow	er l	Unit
Industry													
Address	:	Vill Mad	land	lih, P.O. – Bartori	a, P.S Ne	turia,		Sampling Date		:	23.09.2021		
		Dist – Pur	ulia	(WB)-723121				Period of Analysis		:	25.09.2021	- 2	5.09.2021
								Date of Issue		:	27.09.2021		
Sampling Plan	1 & I	Procedure		ENV/SOP/01	Deviation	from the Sampli	ng	Method and Plan		No	Type of	:	Stack
											Sample		Emission
Sample ID No.	. Т	: ENV/64	A/S	Sep./A/VI		Report No.	:	ENV/64A/Sep./T	R(A)/VI/	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	0.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	1.0)
Capacity	:	25 MT/Heat x 5	Height of sampling port (mtr.) (from G.L.)	:	19	0.0
Emission Due to	:	Melting of Pig Iron, Sponge Iron and Scrap				
Fuel Used	:	Electrically Operated	Permanent Platform & Ladder	•	:	Yes
Working Fuel	:	Yes				
Consumption						
Pollution Control Device	:	Bag Filter				

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	58.0
2.	Barometric Pressure	mm of Hg.		:	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	9.36
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	23648.14
5.	Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	-:	21.47
	Matter		3685/D 3685M-98 (reapproved 2005):		
			Sec. 11 (Vol. 3 11.07) : 2011		

Remarks : During monitoring all furnaces were in operation.

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager

Approved By:

Dr. AJOY PAUL Quality Manager

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TEST REPORT

FORMAT NO: ENV/FM/38

Name of the	:	Shakambl	nari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Pow	er l	Unit
Industry													
Address	:	Vill. – Mac	land	lih, P.O. – Bartori	a, P.S Ne	turia,		Sampling Date		:	23.09.2021		
		Dist - Pur	ulia	, (WB)- 723121				Period of Analysis		:	25.09.2021	- 2	5.09.2021
								Date of Issue		:	27.09.2021		
Sampling Plan	ı &	Procedure	:	ENV/SOP/01	Deviation	from the Sampli	ng	Method and Plan	:	No	Type of	:	Stack
											Sample		Emission
Sample ID No	Sample ID No. : ENV/64A/Sep./A/VII Report No. : ENV/64A/Sep./TR(A)/VII/21-22												

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln No. 1 & 2 (attached to common Stac	ck)		
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)		
Materials of Construction	:	Concrete	Stack I.D. at sampling point (mtr.)	:	2.60
Capacity	:	350 TPD x 2	Height of sampling port (mtr.) (from G.L.)	:	51.2
Emission Due to	:	Oxidation of Coal & Reduction of Fe-Ore			
Fuel Used	:	Coal	Permanent Platform & Ladden	•	: 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)	-:	172.0
2.	Barometric Pressure	mm of Hg.		:	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)		10.66
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	132135.77
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		11.8
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003		<1.0
3.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D		25.80
	Matter (at 11.8% CO ₂)	G.	3685/D 3685M-98 (reapproved 2005):		
	b) Concentration of Particulate		Sec. 11 (Vol. 3 11.07): 2011	:	26.24
	Matter (at 12% CO ₂)				
Remar	ks : During monitoring both kilns v	vere in operation			

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager

Approved By:

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TEST REPORT

FORMAT NO: ENV/FM/38

Name of the	:	Shakambl	ıari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Power Unit			
Industry														
Address	:	Vill. – Mac	land	lih, P.O. – Bartori	a, P.S Ne	turia,		Sampling Date			23.09.2021			
		Dist – Pur	ulia	(WB)-723121				Period of Analysis			25.09.2021 - 25.09.2021			
								Date of Issue	:	27.09.2021				
Sampling Plan	1 & I	Procedure		ENV/SOP/01	Deviation	from the Sampli	ng	Method and Plan		No	Type of	:	Stack	
											Sample		Emission	
Sample ID No.		: ENV/64	A/S	Sep./A/VIII		Report No.	:	ENV/64A/Sep./T	R(A)/VII	I/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 & Ladder	•	: Yes
Working Fuel	:	Coal – 12.5MT/hr. & Dolochar – 8.33 MT/hr.			
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)	-:	182.0
2.	Barometric Pressure	mm of Hg.			755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)		8.79
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	: 40	106963.53
5.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003		12.2
6.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003		<1.0
7.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	-:	11.46
	Matter (at 12.2% CO ₂)		3685/D 3685M-98 (reapproved 2005):		
	b) Concentration of Particulate		Sec. 11 (Vol. 3 11.07) : 2011	:	11.27
	Matter (at 12% CO ₂)				

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager

Approved By:

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TEST REPORT

FORMAT NO: ENV/FM/38

Name of the	:	Shakambl	ıari	Ispat & Power Lt	d.			Type of Industry			Steel & Power Unit		
Industry													
Address	:	Vill. – Mac	land	lih, P.O. – Bartori	a, P.S. – Ne	turia,		Sampling Date			22.09.2021		
		Dist - Pur	ulia	(WB)-723121				Period of Analysis			25.09.2021 - 25.09.2021		
								Date of Issue		:	27.09.2021		
Sampling Plar	1 & I	Procedure	:	ENV/SOP/01	Deviation	from the Sampli	ng	Method and Plan	:	No	Type of	:	Stack
											Sample		Emission
Sample ID No. : ENV/64A/Sep./A/III						Report No.	:	ENV/64A/Sep./T	R(A	()/III/	/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 & Ladden	ſ	: Yes
Working Fuel	:	Nil	The second second		
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)	-:	63.0
2.	Barometric Pressure	mm of Hg.			755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)		7.70
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)		62093.42
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	45.62
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	0.8
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	:	21.74
	Matter		3685/D 3685M-98 (reapproved 2005):		
			Sec. 11 (Vol. 3 11.07) : 2011		

Remarks

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager

Approved By:

Dr. AJOY PAUL Quality Manager

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TEST REPORT

FORMAT NO: ENV/FM/38

Name of the	:	Shakambl	ıari	Ispat & Power Lt	d.			Type of Industry		:	Steel & Power Unit			
Industry														
Address	:	Vill. – Mac	land	lih, P.O. – Bartori	a, P.S Ne	turia,		Sampling Date			22.09.2021			
		Dist – Pur	ulia	(WB)-723121				Period of Analysis			25.09.2021 - 25.09.2021			
								Date of Issue	:	27.09.2021				
Sampling Plan	1 & I	Procedure		ENV/SOP/01	Deviation	from the Sampli	ng	Method and Plan		No	Type of	:	Stack	
											Sample		Emission	
Sample ID No.		: ENV/64	A/S	Sep./A/IV		Report No.	:	ENV/64A/Sep./T	R(A)/IV/	21-22			

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF (No.2)				
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	32	.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	1.8	30
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)	:	75.0
2.	Barometric Pressure	mm of Hg.		:	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	8.30
4.	Quantity of Gas flow	Nm³/hr.	IS 11255 (Part III)	:	64611.03
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	32.02
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	1.2
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	-:	<1.0
8.	Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	26.58
	Matter	-	3685/D 3685M-98 (reapproved 2005):		
			Sec. 11 (Vol. 3 11.07) : 2011		

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager

Approved By:

Dr. AJOY PAUL Quality Manager

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Annexure - 2













FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambh	ari	Ispat & Power Lt	td.		Type of Industry	:	Steel	& Power U	nit		
Address	:	Vill Mad	lanc	lih, P.O. – Bartori	ia, P.S Ne	eturia,	Sampling Date	:	22.09.2021				
		Dist – Purulia, (WB)– 723121					Period of Analysis	:	25.09.2021 - 25.09.2021				
							Date of Issue	:	27.09.2021				
Sampling Plar	1 &	Procedure	:	ENV/SOP/01	Deviation	n from the Samp	oling Method and Plan	:	No	Type of	:	Work Zone	
										Sample			
Sample ID No.		: ENV/64	A/S	Sep./A/XVII	Report No. : ENV/64A/Sep./			TR(A)/XVII/21-22					

GENERAL INFORMATION A]

1. Location of Sampling Rolling Mill Division (Near Store) 2. **Duration of Sampling** 08 hrs. (10:20 a.m. - 06:20 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) 28.0 2. Average Relative Humidity (%) 67.0 3. Barometric Pressure (mm of Hg) 755.0

4. Smell or Odour : No Remarkable Smell

RESULTS C1

METHOD NO.	RESULTS
NIOSH 0500 : 2005	320.50

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager

Approved By:

Dr. AJOY PAUL

Quality Manager

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Overseas : * UAE * Qatar * Netherlands









FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambl	ari	Ispat & Power Lt	d.	Type of Industry	:	Steel	& Power U	nit	
Address	:	Vill. – Mac	lanc	lih, P.O. – Bartori	a, P.S. – Neturia,	Sampling Date	:	22.0	9.2021		
		Dist - Pur	ulia	(WB)-723121		Period of Analysis	:	25.09.2021 - 25.09.2021			
						Date of Issue	:	27.0	9.2021		
Sampling Plan	1 &	Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan			No	Type of	:	Work Zone
									Sample		
Sample ID No.		: ENV/64	A/S	Sep./A/XVII	Report No.	: ENV/64A/Sep./7	rR(A	A)/XVI	I/21-22		

A] GENERAL INFORMATION

Location of Sampling
 Rolling Mill Division (Near Store)
 Duration of Sampling
 08 hrs. (10:20 a.m. – 06:20 p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 28.0
 Average Relative Humidity (%) : 67.0
 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	8.20
			2007: Sec. 11 (Vol. 11.07): 2011	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	31.50
			2005 : Sec. 11 (Vol. 11.07) : 2011	

Reviewed By:

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By:

Hand

Dr. AJOY PAUL Quality Manager

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

Overseas : • UAE • Qatar • Netherlands













FORMAT NO: ENV/FM/57

Name of Industry		:	Shakambhai	ri Ispat & Power L	.td. Type of Industry			:	Steel & Power Unit		
Address		:	Vill. – Madar	ndih, P.O. – Bartor	ia, P.S. – Ne	turia,	Sampling Date	:	22.09.2021		
			Dist - Puruli	ia, (WB)- 723121				:	25.09.2021 - 25.09.2021		
							Date of Issue	:	27.09.2021		
Samplin	g Plar	1 & I	Procedure :	ENV/SOP/01	Deviation	from the Sam	oling Method and Plan	:	No Type of : Work Zone Sample		
Sample l	ID No.		: ENV/64A	/Sep./A/XVI		Report No.	: ENV/64A/Sep./T	R(A	A)/XVI/21-22		
A] <u>G</u>	GENERAL INFORMATION										
1. L	ocati	on (of Sampling			Near Control	Room (SMS Division)				
2. D	Ourati	on (of Sampling		: 08 hrs. (10:00 a.m. – 06:00 p.m.)						
B] <u>M</u>	1ETEO	ROI	OGICAL INFO	RMATION							
1. A	lvera	ge T	emperature	(°C)		27.0					
2. A	lvera	ge R	elative Humi	idity (%)	: 755.0						
3. B	Barom	etr	c Pressure (1	mm of Hg)	: 67.0						
4. S	mell	or C	dour		: No Remarkable Smell						
C] <u>RE</u>	ESULT	<u>ΓS</u>							24		

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SPM	μg/m³	NIOSH 0500 : 2005	210.80

Reviewed By:

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Approved By:

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FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambh	iari	Ispat & Power Lt	td.		Type of Industry : Steel & Power Unit							
Address	:	Vill. – Mac	lan	dih, P.O. – Bartori	a, P.S. – Ne	eturia,	Sar	npling Date	:	22.09.2021				
		Dist - Pur	ulia	, (WB)- 723121			Per	riod of Analysis	:	25.09.2021 - 25.09.2021				
							Dat	e of Issue	:	27.09.2021				
Sampling Plan	ı &	Procedure	:	ENV/SOP/01	Deviation	n from the Samp	ling	Method and Plan	:	No	Type of		Work Zone	
											Sample			
Sample ID No		: ENV/64	A/	Sep./A/XVI		Report No.	:	ENV/64A/Sep./T	'R(A	A)/XVI	/21-22			

A] GENERAL INFORMATION

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

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

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 27.0
 Average Relative Humidity (%) : 755.0
 Barometric Pressure (mm of Hg) : 67.0

4. Smell or Odour : No Remarkable Smell

Cl RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved	7.20
			2007: Sec. 11 (Vol. 11.07) : 2011	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	28.20
			2005 : Sec. 11 (Vol. 11.07) : 2011	

Reviewed By :

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Approved By:

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TEST REPORT

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	:	23.09.2021		
		Dist - Purulia, (WB)- 723121	Period of Analysis : 25.09.2021 - 25.09.2021				
			Date of Issue	:	27.09.2021		
Sampling Plan	ı &	Procedure : ENV/SOP/01 Deviation from the Sam	pling Method and Plan	:	No Type of : Work Zone		
					Sample		
Sample ID No		: ENV/64A/Sep./A/XV Report No.	: ENV/64A/Sep./T	'R(<i>I</i>	A)/XV/21-22		
A] GENER	AL I	NFORMATION		Į.	//		

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

2. **Duration of Sampling** 08 hrs. (10:20 a.m. - 06:20 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) 30.0 2. Average Relative Humidity (%) 66.0 3. Barometric Pressure (mm of Hg) 755.0

4. Smell or Odour No Remarkable Smell

RESULTS C1

SL. PARAMETERS NO.	UNIT	METHOD NO.	RESULTS
. Concentration of SPM	μg/m³	NIOSH 0500 : 2005	230.10

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FORMAT NO: ENV/FM/57

Name of the	:	Shakambl	ari	Ispat & Power Lt	d.		Type of Industry	:	Steel	& Power U	nit	
Industry												
Address	:	Vill. – Mad	land	lih, P.O. – Bartori	a, P.S. – Ne	turia,	Sampling Date	:	23.09.2021			
		Dist - Pur	ulia	(WB)-723121			Period of Analysis	:	: 25.09.2021 - 25.09.2021			2021
							Date of Issue	:	27.09	9.2021		
Sampling Plar	1 & I	Procedure		ENV/SOP/01	Deviation	from the Samp	ling Method and Plan	:	No	Type of		Work Zone
							-			Sample		
Sample ID No. : ENV/64A/Sep./A/XV						Report No.	: ENV/64A/Sep./T	R(A	1)/XV/	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. (10:20 a.m. – 06:20 p.m.)

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 30.0
 Average Relative Humidity (%) : 66.0
 Barometric Pressure (mm of Hg) : 755.0

4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved	6.80
			2007: Sec. 11 (Vol. 11.07): 2011	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	26.50
			2005 : Sec. 11 (Vol. 11.07) : 2011	

Reviewed By:

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FORMAT NO: ENV/FM/57

Name of the	:	Shakambl	nari	Ispat & Power Lt	d.		Type of Industry	:	Steel					
Industry														
Address	:	Vill. – Mac	lanc	lih, P.O. – Bartori	a, P.S. – Ne	eturia,	Sampling Date	:	23.09.2021					
		Dist - Pur	ulia	, (WB)- 723121			Period of Analysis	:	25.09	9.2021 - 25	.09.	2021		
							Date of Issue	:	27.09	9.2021				
Sampling Plan	Sampling Plan & Procedure : ENV/SOP				Deviation from the Sampling Method and Plan			:	No	Type of	:	Work Zone		
						_				Sample				
Sample ID No. : ENV/64A/Sep./A/XIV						Report No.	: ENV/64A/Sep./7	'R(A)/XIV	/21-22				

GENERAL INFORMATION A]

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

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) 32.0 2. Average Relative Humidity (%) 66.0 3. Barometric Pressure (mm of Hg) 755.0

4. Smell or Odour : No Remarkable Smell

C] **RESULTS**

METERS UNIT	METHOD NO.	RESULTS
ion of SPM μg/m³	NIOSH 0500 : 2005	261.50

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FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambl	ıari	Ispat & Power L	td.		Type of Industry	:	Steel	& Power U	nit	
Address	: Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia,						Sampling Date	:	23.09.2021			
		Dist - Pur	ulia	, (WB)- 723121			Period of Analysis	:	25.09.2021 - 25.09.2021			
							Date of Issue	:	27.09	9.2021		
Sampling Plar	ı &	Procedure	:	ENV/SOP/01	Deviation	n from the Samp	oling Method and Plan	:	No	Type of	:	Work Zone
										Sample		
Sample ID No.		• ENV/64	1A /	Sen /A/XIV		Report No	• ENV/64A/Sen/7	'R(/	VIX/(A	/21-22		

A] GENERAL INFORMATION

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

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

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 32.0
 Average Relative Humidity (%) : 66.0
 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	8.20
			2007: Sec. 11 (Vol. 11.07) : 2011	
2.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	28.50
			2005 : Sec. 11 (Vol. 11.07) : 2011	

Reviewed By:

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TEST REPORT

FORMAT NO: ENV/FM/57

Name of the	:	Shakambl	ıari	Ispat & Power Lt	td.		Type of Industry	:	Steel	& Power U	nit	
Industry												
Address	:	Vill Mac	land	lih, P.O. – Bartori	a, P.S. – Neturia,		Sampling Date	:	22.09	9.2021		
		Dist - Pur	ulia	(WB)-723121			Period of Analysis	:	25.09	9.2021 - 25	.09.	2021
							Date of Issue	:	27.09	9.2021		
Sampling Plar	1 &	Procedure	:	ENV/SOP/01	Deviation from the	Samp	ling Method and Plan	:	No	Type of	:	Work Zone
						_	-			Sample		
Sample ID No.		: ENV/64	IA/S	Sep./A/XIII	Report N	lo.	: ENV/64A/Sep./T	R(A	A)/XIII	/21-22		
		•			· -							

GENERAL INFORMATION A]

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

2. **Duration of Sampling** 08 hrs. (09:50 p.m. - 05:50 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) 30.0 2. Average Relative Humidity (%) 68.0 3. 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	280.50

Remarks

Reviewed By:

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FORMAT NO: ENV/FM/57

Name of the Industry	:	Shakambl	ıari	Ispat & Power Lt	id.		Type of Industry	:	Steel	& Power U	nit	
Address	:	Vill. – Mad	land	lih, P.O. – Bartori	a, P.S. – Ne	eturia,	Sampling Date	:	22.09	9.2021		
		Dist - Pur	ulia	, (WB)- 723121			Period of Analysis	:	25.09	9.2021 - 25	.09.	2021
					Date of Issue :			27.09.2021				
Sampling Plan	Sampling Plan & Procedure : ENV/SOP/01 Deviation		n from the Samp	oling Method and Plan	:	No	Type of		Work Zone			
								Sample				
Sample ID No.	Sample ID No. : ENV/64A/Sep./A/XIII					Report No.	: ENV/64A/Sep./7	rR(/	A)/XIII	/21-22		

A] GENERAL INFORMATION

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

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

B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 30.0
 Average Relative Humidity (%) : 68.0
 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	9.20
			2007: Sec. 11 (Vol. 11.07) : 2011	
2.	Concentration of NO_2	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	31.50
			2005 : Sec. 11 (Vol. 11.07) : 2011	

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Annexure - 3

RCC ROAD & PAVER BLOCK AREA INSIDE PLANT



































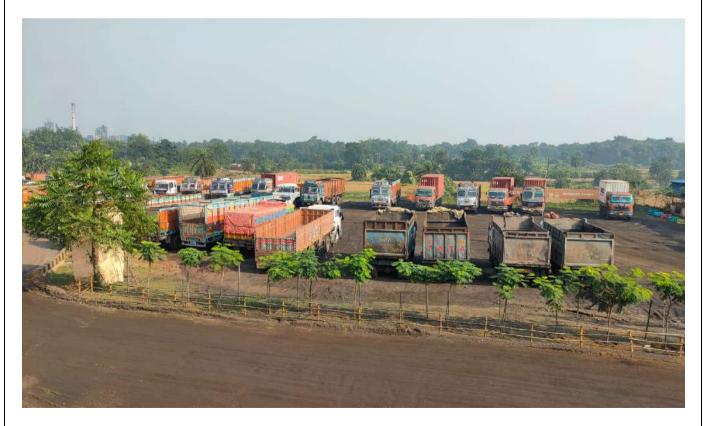




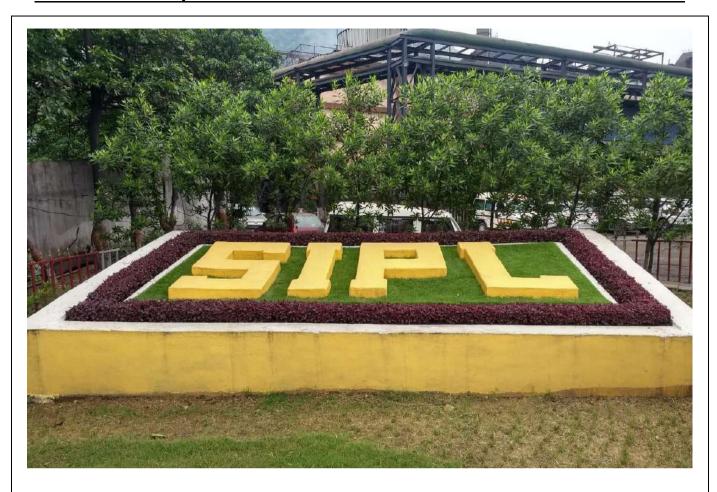


TRUCK PARKING AREA





PLANTATION/GREEN COVER WITH INDIGENOUS SPECIES









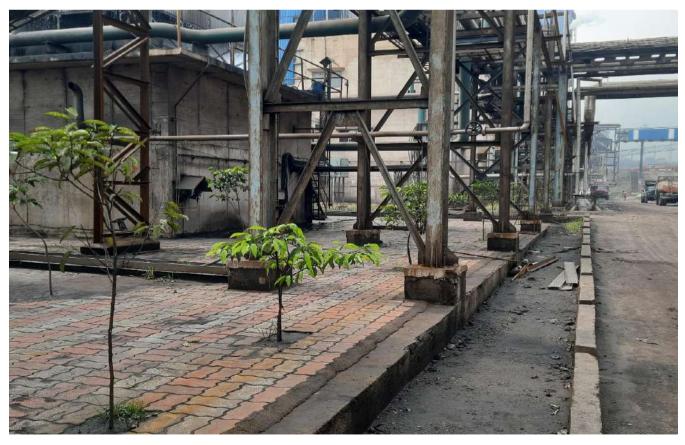








































FORMAT NO: ENV/FM/37

Name of the	ie :	Shakambl	ıari	Ispat & Power L	td.			Type of Industry	:	Steel	& Power U	nit	
Industry													
Address	:	Vill. – Mad	land	lih, P.O. – Bartori	– Bartoria, P.S. – Neturia,			Sampling Date	:	23.09.2021 - 24.09.2021			2021
		Dist - Pur	ulia	, (WB)- 723121				Period of Analysis	:	25.09.2021 - 25.09.2021			2021
								Date of Issue	:	27.09	9.2021		
Sampling	Plan &	Procedure	:	ENV/SOP/01	Deviation	on f	rom the Sam	pling Method and Plan	:	No	Type of	:	Ambient Air
											Sample		
Sample ID	No.	: ENV/64	IA/S	Sep./A/XII]	Report No.	: ENV/64A/Sep./7	rR(/	A)/XII/	21-22		
A] GEI	A] GENERAL INFORMATION												
1. Loc	1. Location of Sampling : Near Security Gate (Southern Side)												
2. Du	2. Duration of Sampling : 24 hrs. (10:30 a.m. – 10:30 a.m.)												

B] **METEOROLOGICAL INFORMATION**

1. Average Temperature (°C) 25.0 2. Average Relative Humidity (%) 57.0 3. Barometric Pressure (mm of Hg) 755.0

4. Smell or Odour No Remarkable Smell

Weather Condition 5. Clear sky

\mathbf{C} RESULTS

C]	<u>KLSULTS</u>			
SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM2.5	μg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	54.43
2.	Concentration of PM ₁₀	μg/m ³	IS 5182 (PART 23) : 2006	87.80
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	9.49
4.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	27.97
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.32
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)	$\mu g/m^3$	IS 5182 (Part-IX): 1974	<10.0
10.	Ammonia (NH ₃)	μg/m ³	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/m³	EPA IO 3.2, 1999, APHA 23rd Ed 3114C: 2017	< 0.01
13.	Mercury (Hg)	mg/m ³	EPA IO.5: 1999	< 0.002

Reviewed By:

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FORMAT NO: ENV/FM/37

Name of the	:	Shakambl	ıari	Ispat & Power Lt	d.		Type of Industry	:	Steel	& Power U	nit	
Industry												
Address	:	Vill. – Mac	land	ih, P.O. – Bartori	Sampling Date	:	23.09	9.2021 - 24	.09.	2021		
		Dist - Pur	ulia	(WB)- 723121			Period of Analysis	:	25.09.2021 - 25.09.2021			
							Date of Issue	:	27.09	9.2021		
Sampling Plan	1 & I	Procedure	:	ENV/SOP/01	Deviation	n from the Samp	ling Method and Plan	:	No	Type of	:	Ambient Air
										Sample		
Sample ID No. : ENV/64A/Sep./A/XI Report No. : ENV/64A/Sep./TR(A)/XI/21-22												

Α	GENERAL INFORMATION)N

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

Duration of Sampling 24 hrs. (10:00 a.m. - 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) 25.0 2. Average Relative Humidity (%) 58.0 3. Barometric Pressure (mm of Hg) 755.0

Smell or Odour No Remarkable Smell 4.

Weather Condition 5. Clear sky

C] **RESULTS**

SL.	PARAMETERS	UNIT	METHOD NO.	RESULTS
NO.	Concentration of PM _{2.5}	μg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	48.45
2.	Concentration of PM ₁₀	μg/m ³	IS 5182 (PART 23) : 2006	80.08
3.	Concentration of SO ₂	μg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved	7.22
			2007: Sec. 11 (Vol. 11.07) : 2011	
4.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	26.52
			2005 : Sec. 11 (Vol. 11.07) : 2011	

Reviewed By:

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Overseas : • UAE • Qatar • Netherlands















FORMAT NO: ENV/FM/37

Name of the	:	Shakambhari Ispat & Power Ltd.					Тур	e of Industry	:	Steel	& Power U	nit	
Industry													
Address	:	Vill. – Mac	land	lih, P.O. – Bartori	San	npling Date	••	22.09.2021 - 23.09.2021					
		Dist – Pur	Dist – Purulia, (WB) – 723121					iod of Analysis	••	25.09.2021 - 25.09.2021			
							Dat	e of Issue	:	27.09.2021			
Sampling Plan	n &	Procedure	:	ENV/SOP/01	Deviation	n from the Samp	ling	Method and Plan	:	No	Type of	:	Ambient Air
											Sample		
Sample ID No. : ENV/64A/Sep./A/X						Report No.	:	ENV/64A/Sep./T	'R(A	A)/X/2	1-22		

Α	GENERAL INFORMATION)N

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

Duration of Sampling 24 hrs. (10:00 a.m. - 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) 24.0 2. Average Relative Humidity (%) 64.0 3. Barometric Pressure (mm of Hg) 755.0

Smell or Odour No Remarkable Smell 4.

Weather Condition 5. 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	51.63
2.	Concentration of PM ₁₀	μg/m³	IS 5182 (PART 23) : 2006	84.16
3.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved	7.63
			2007: Sec. 11 (Vol. 11.07) : 2011	
4.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	30.95
			2005 : Sec. 11 (Vol. 11.07) : 2011	
Rema	rks :			

Reviewed By:

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Approved By:

Dr. AJOY PAUL Quality Manager

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

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













FORMAT NO: ENV/FM/37

Name of the	:	Shakambhari Ispat & Power Ltd.					Тур	oe of Industry	:	Steel	& Power U	nit	
Industry													
Address	:	Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia,						npling Date	:	22.09.2021 - 23.09.2021			
		Dist - Purulia, (WB) - 723121					Per	riod of Analysis	:	25.09.2021 - 25.09.2021			
							Dat	e of Issue	:	27.09.2021			
Sampling Plan	n &	Procedure	:	ENV/SOP/01	Deviation	n from the Samp	ling	Method and Plan		No	Type of	:	Ambient Air
											Sample		
Sample ID No. : ENV/64A/Sep./A/IX						Report No.	:	ENV/64A/Sep./T	'R(A	1)/IX/2	21-22		

1. Near Laboratory Building (SMS Division) (Northern Side) Location of Sampling 2.

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) 25.0 2. 58.0 Average Relative Humidity (%) 3. Barometric Pressure (mm of Hg) 755.0

Smell or Odour No Remarkable Smell 4.

Weather Condition 5. Clear sky

RESULTS \mathbf{C}

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS			
	Concentration of PM _{2.5}	μg/m³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	53.81			
2.	Concentration of PM_{10}	μg/m³	IS 5182 (PART 23) : 2006	86.46			
3.	Concentration of SO ₂	μg/m³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved	12.38			
			2007: Sec. 11 (Vol. 11.07) : 2011				
4.	Concentration of NO ₂	μg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved	36.15			
			2005 : Sec. 11 (Vol. 11.07) : 2011				

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager

Approved By:

Dr. AJOY PAUL Quality Manager

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

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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001: 2018











FORMAT NO. ENV/FM/40

TEST REPORT

Name of the	:	Shakambhari I	spat& Power Ltd.		Type	of Industry	:	Steel & Power Unit
Industry								All
Address	:	Vill Madandi	h, P.O. – Bartoria, P.	S. –	Sampl	ling Date	:	23.09.2021
		Neturia, Dist -	Purulia (WB)- 7231	121	Period of Analysis			24.09.2021 - 30.09.2021
					Date o	of Issue	:	01.10.2021
Sampling Plan		: ENV/SOP/01	Deviation from	:	No	Type of	:	Industrial Effluent Water (Grab)
& Procedure			the Sampling			Sample		2.2
			Method and					11 11
			Plan					
Location :	Co	ooling Water	Sample ID : E	ENV/5	81/Sep	./W Report	;	: ENV/581/Sep./TR(W)/M/21-
	Re	ecycle Storage	No.			No.		22
	Ta	ınk						

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH value	4500H+B APHA 23rdEdition, 2017	-	6.92
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	14.0
3.	Oil & Grease	5520 Oil B/D APHA 23 rd Edition, 2017	mg/l	<1.0
4.	Chemical Oxygen Demand	5200 COD B/C/D APHA 23 rd Edition, 2017	mg/l	15.0
5.	Biochemical Oxygen	5210 BOD B APHA 23 rd Edition, 2017	mg/l	3.0
	Demand for 3 days at 27°C			

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager

Approved By:

Dr. AJOY PAUL Quality Manager

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

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









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/581A/S/M(i)/21-22

4. Date of sampling
5. Reporting Date
6. Type of sample
7. Location
1 22.09.2021
2 30.09.2021
E.S.P Bed Ash
Ash Dumping Yard

<u>Sl.</u> No.	<u>PARAMETERS</u>	<u>METHOD</u>	<u>UNIT</u>	RESULTS
1.	Zinc (Zn)	EPA 1311 : 1992	mg./l	6.80
		APHA 23 rd Ed., 3111 B : 2017		
2.	Copper (Cu)	EPA 1311 : 1992	mg./l	6.50
		EPA 3050 B, 1996/EPA 200.6 : 1998	100	
3.	Nickel (Ni)	EPA 1311 : 1992	mg./l	1.40
		APHA 23rd Ed., 3111 B: 2017		
4.	Lead (Pb)	EPA 1311 : 1992	mg./l	1.80
		EPA 3050 B, 1996/EPA 200.9 : 1998		
5.	Cadmium (Cd)	EPA 1311 : 1992	mg./l	< 0.002
		EPA 3050 B, 1996/IS 3050 (Part 46)		

Reviewed By:

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By:

Hand

Dr. AJOY PAUL Quality Manager

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@anvirachack ara /anvirachackE0@amail.com / Wahaita : unuw anvirachack ara









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/581A/S/M(ii)/21-22

4. Date of sampling : 22.09.20215. Reporting Date : 30.09.2021

6. Type of sample : Slag
7. Location : SMS Slag

<u>Sl.</u> No.	<u>PARAMETERS</u>	<u>METHOD</u>	<u>UNIT</u>	RESULTS
1.	Zinc (Zn)	EPA 1311 : 1992	mg./l	7.40
		APHA 23 rd Ed., 3111 B : 2017		
2.	Copper (Cu)	EPA 1311 : 1992	mg./l	5.80
		EPA 3050 B, 1996/EPA 200.6: 1998		
3.	Nickel (Ni)	EPA 1311 : 1992	mg./l	1.40
		APHA 23 rd Ed., 3111 B: 2017		
4.	Lead (Pb)	EPA 1311 : 1992	mg./l	1.80
		EPA 3050 B, 1996/EPA 200.9: 1998		
5.	Cadmium (Cd)	EPA 1311 : 1992	mg./l	< 0.002
		EPA 3050 B, 1996/IS 3050 (Part 46)		

Reviewed By:

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By:

Dr. AJOY PAUL Quality Manager

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

H.O.

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

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 7 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

Partner

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

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

Name: Vinay Kumar

Degn: Director

Shakambhari Ispat & Power Ltd.

In presence of:

Witness No. 1:

Ayush Agermala Ayush Agermala Synif Rudas

Witness No. 2:

CSR ACTIVITIES IN VARIOUS SEGMENTS IN NEARBY VILLAGES

















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

-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

of Pollution) Act, 1981, as amended and Rules an	Thereinafter referred to as State Board) under the provisions of Section 25 & on) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Orders made thereunder, hereby grants its consent to:
M/S. Shakambhari Ispat & Po	ower Ltd.
The second secon	(Address of Regd. office/Head/Office/City Office)
(hereinafter referred to as Applicant) for its unit lo	cated at Vill- Madandih, P.O. Barteria,
	(Detailed address of the manufacturing unit)
for a period from	upte 31-07-2023
trial unit, in accordance with the conditions as mo	id effluent and to emit gaseous effluent from the premises/land of the indus- entioned in the Annexure to this consent letter provided on any day at any ge and gaseous emission shall not exceed the permissible limit as specified in 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.

Asamsol 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		Alberta .	
05	WEST BEN	GA	
06			
07			
08			
09			
10			
11			
12		ALCOHOL: NO STATE OF THE PARTY	

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.
	Daily discharge of domestic liquid effluent shall not exceed			
	Doily discharge of mixed (industrial 6 days in 11 11 17		NIL	

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

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

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

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01 I	omestic	рН	Between: 5,5 to 9.0.	Yearly
		Total Suspended Solids	Not to exceed: 100 mg/1.	
	4	Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/1.	
		Chemical Oxygen Demand	Not to exceed: 30 mg/l. Not to exceed: 250 mg/l.	
		Oil & Grease	Not to exceed: 10 mg/1.	
-				
		WEST BEN	IGAL	
			DAMES AND THE STATE OF THE STATE OF	
-				
		Stromatic Bill		
		国际国际 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图		

- 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 Ispa	at &	Power	Lta.
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for its unit of Vill- Madandih, P.O. Bartoria, P.S. Neturia,

for its unit at

Pim-723121

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

Table-II

Stack No.	Stack height from	Stack attached to (sources and control system.	Volume Nm³/hr.	Velocity of gas emission	Concent	trations of	paramet	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										
S-2			SEE Ar	nexure	'A' at	tached				10
S-3								1	×	
S-4		-				a e 7 Aug				
S-5			1			A STATE OF				
S-6										
S-7										
S-8			8							
S-9										
S-10										

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

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

Pin-723121

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

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

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. Stack No. height from		Stack attached to (sources and control system, if any)	Volume (Nm³/hr)	Velocity of gas emission	Concentrations of parameters not to 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 *

742126
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

- 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	
Delechar	2480 TPM	~ T	be used in AFBC B	eiler
MS Slag Dust/Ash	925 TPM		Land filling.	

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

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

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

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

Continued. P/6

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Consent to Shakambhari Ispat & Pewer Ltd.,

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

Pin - 723121, W.B., India.

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

Additional Conditions 1) See Annexure.

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

WEST BENGAL

WEST BENGAL POLLUTION CONTROL BOARD

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

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

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

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

Table-II

SI No.	Stack height	Stack attached to (Sources & control system , if any)	Volume Nm³/hr	Velocity of gaseous emission	Concentration	of paramete	rs not to exceed			Frequency of sampling
	from GL (in mts.)	The Marie		(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	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					
S-10	30.0	Product House			50.0					
5-11	30.0	Induction Furnace(1x25T/Heat)	-	-	50.0					-

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

Amand 106.12.2018
For and on behalf of the Board

WEST BENGAL POLLUTION CONTROL BOARD

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



Consent Letter Number: C0113782

Expansion

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

Date: 06/09/2019

Consent to Operate

under

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

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

of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to:
1/s, Shakambhari Ispat & Power Kimited
ereinafter referred to as Applicant) for its unit located at existing unit premises in villi
Madandih, P.OBartonia, P.SNeturia, Dist:-Purulia, Pri-723121
(Detailed address of the manufacturing unit)
raperiod from date of 1884e to 3/07/2023

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.

Seal Period Shows & Eracile

For and on behalf of the State Board

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

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

ANNEXURE

men Ms. Shakambhari Ispat & Power Limited.	
VIII: Madandih, P.OBastonia, P.SMetunia,	
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 bars/wire	1,06,800 TPA 1,80,000 TPA
03		
64		
05	WEST BE	NGAA
06		
07	Market was to be a second as a	
08		
09		
10		
11		19 1999
12		

- 02. 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)
- 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.O Bartoria, P.S Neturia,
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
- '	TINE	Total Suspended Solids	Not to exceed: 10 Omg/1.	
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30mg/1.	
-		Chemical Oxygen Demand	Not to exceed: 2 50 mg/1.	
		Oil & Grease	Not to exceed: mg/1.	
_				
		AND DESCRIPTION OF THE PARTY OF	BEAUTICAL CONTRACTOR OF THE PROPERTY OF THE PR	
		MESTREN	(GA)	
		44-91	-U/L	
		ADMINISTRAÇÃO DE LA COMPANSIONA DEL COMPANSIONA DE LA COMPANSIONA	CONTROL OF STREET	
			and the same of th	
			The Participant of the Participa	
		CONTROL REPUBLISHED BY	THE PERSONAL PROPERTY.	
		VEHILLE PERILEDAN SERVICE	THE PERSONAL PROPERTY.	

- 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	Concentrations of parameters 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 same of the sa	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			ţ.					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: - Panulia, Pin-723121

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

SL No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Electricity		1X8 MT/heat and 1X25 MT/heat
02			Induc
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	975 MT/m.		land filling.
			155 P

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 (05 p.m. to 06 a.m.)	70	

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

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

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

Mc Shakambhari Ispat & Power Limited

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

Dit:-Purulia, Pin-723121.

- 24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- 26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- 30. The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- 31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- 32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event incident material 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. Poliution 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

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



Consent Letter Number : CO 128922

Mcmo 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:

	Power Kimited.
	(Address of Regd. office/Head/Office/City Office)
(hereinafter referred to as Applicant) for its unit located at	existing unit premises in VIII:
	S- Neturia, Dist-Purulia,
Pis - 723121.	
	(Detailed address of the manufacturing unit)
	TO BE A STATE OF THE STATE OF T
for a period from Acte of 1886.	10 31/07/2023

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

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.

September of Control of September 12 and September 12 and

(Prevention and Control of Pollution) Act, 1981.

For and on behalf of the State Board

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

W. B. Pollution Control Board Operation & Execution Cell

ANNEXURE

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. Billet	4700.00 MT
02		
03		
04	And the Party of t	
05	WESTBE	NGAL
06	Company of the second second second second	OR THE PROPERTY OF THE PROPERT
07	Charles State of Building State of Stat	PAGALINE PAGE
08		
09		
10		
11		
12		
02. The Ap,	plicant shall remain responsible for quantity and qual	ity of liquid effluent and air emissions.
3. Daily d	ischarge of industrial liquid effluent shall not exceed	KL
4. Daily d	ischarge of domestic liquid effluent shall not exceed.	5.0 KI
5. Daily d	ischarge of mixed (industrial & domestic) liquid efflu	ent shall not exceedKL
6. The App through	olicant shall discharge liquid effluent to self-ling OI (Oni) nos outlets / out	fank to municipal dnain. (place of discharge
7. To bring the Boa	t into any altered or new outlet/outfall or to change the rd and obtain prior permission of the Board in this eff	place of discharge, the Applicant shall have to infor- ect,
waste (olicant shall provide comprehensive facility for treat sewage, sullage and liquid effluent generated fro ously so that the quality of final effluent conforms to t	im canteen), and operate and maintain the sam

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

Environmental Englaser

W. B. Folluben Control Boardinued....

Operation & Execution Cell

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Consent to MIS	Shakambhari Ispat & Power Kimited
for its unit at	i Madandih, P.O Bartonia, P.S Neturia,
Dist- Pw	Julia, 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
55.407	L AGENBRAS WAX	Total Suspended Solids	Not to exceed: 100 mg/l.	0
- 13		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 20 mg/l.	
		Chemical Oxygen Demand	Not to exceed : 250 mg/1.	
- 8		Oil & Grease	Not to exceed: 10 mg/1.	
15				
				- 8
				11:
			Barrier Charles	
		LAUTE OF THE N	~ * *	
		WEST	1 7 62 1	
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- 31				
		The second secon		
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		CONTROL CONTROL CONTROL		
			to literally	
				-

09.	and	Applicant falls in the	1977 and Rules made thereu	mder and the	Category of the Wate Applicant shall cor	r (Prevention nply with the
10.	Dail	y water consumption for the foll	owing purposes should not ex	ceed :-		
		ndustrial cooling, spraying in mi Water used for gardening should			60.0	KL
	• [Domestic purpose		-	5.0	KL

Processing whereby water gets polluted and the pollutants are easily biodegradable

KI

KI

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. B. Pollution Control Board
Operation & Execution Cellitinued.

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 do (sources and control system.	to (sources andNm³/hr	Velocity of gas emission	Concentrations of parameters not to exceed				Frequency of emission sampling	
	G.I., (in mts.)	if any);	WE:	m/sec	SPM (mg/Nm³)	(%v/i)	AL			ampinig
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			, and							
S-9										
S-10										

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

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

Consent to MIS. Shakambhari Tapat & Power Limited.

for its unit at VIII: Madar Dih, P.O. - Bentonia, P.S. - Netwaia,

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	,—————————————————————————————————————	1X25 MT/heat Induction.
02			
03			
04		ALTO STATE OF THE PARTY OF THE	
0.5			

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

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

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.
- 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. Ungr. Environmental Engineer

W. B. Pollution Control Board Operation & Execution Cell Consento Mls. Shakambhani Ispat & Power Kimited.

for its unit at Villi Madandih, Ro-Bastonia, P.S-Netnaia,
Dist-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.
- 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 Engr./Sr. Line Finer / Brive Engr. / Asst. Env. Engr. Environmental Engineer
W. B. Pollution Control Board

Operation & Execution Call

Annexure to Consent Letter Number - CO128922

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

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

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

Operation & Execution Cell

WEST BENGAL POLLUTION CONTROL BOARD

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



Consent Letter Number: C0128 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 Depart & Panter 14th.
(hereinafter referred to as Applicant) for its unit located at VIII: Madandih, P.O Bartenia P.S Xelwia, Dist-Punulia, Pin - 723121
(Detailed address of the manufacturing unit)
for a period from Date of issue to 31/07/2023 to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the indus-
trial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.
Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.
The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

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For and on behalf of the State Board

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

W. B. Pollution Control Board Operation & Execution Cell

Consent to

ANNEXURE

Consent to MIS. Shakambhari Ispat & Power Ud.
for its unit at VIII: Madaulih, P.O Bastonia, P.S Weturia,
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/Mouth
03	Silico Manganese	2210 MT/Mouth.
04	And the second second second	22101111110000
05	The state of the s	IGAL
06	The second secon	
07		and the second second
08	The second second	ar some and a state of the stat
09		
10	The state of the s	
11	Carried Land	
12	And I have been	VERY

- 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.
- 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.

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

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

(2)
Consent to Mfs. Shakambhari Fspat & Power LH.
for its unit at Villi Madandih, P.O. Bartonia, P.S Weturia,
Dist-Purulia, Pin - 723121

Table-I

Total Suspended Solids Biochemical Oxygen Demand (3day at 27°C) Chemical Oxygen Demand Oil & Grease Not to exceed: 2 50 mg/l. Not to exceed: 10 mg/l. Not to exceed: 10 mg/l.	Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
Total Suspended Solids Biochemical Oxygen Demand (3day at 27°C) Chemical Oxygen Demand Not to exceed: 3 0 mg/1. Oil & Grease Not to exceed: 1 0 mg/1.	01	Donestic		Between: 5.5 to 9.0	Yearly
Biochemical Oxygen Demand (3day at 27°C) Chemical Oxygen Demand Not to exceed: 3 O mg/1. Not to exceed: 2 5 O mg/1. Not to exceed: 1 0 mg/1.			Total Suspended Solids		carry
Chemical Oxygen Demand Oil & Grease Not to exceed: 2 5 0 mg/l. Not to exceed: 1 0 mg/l.			Biochemical Oxygen Demand (3day at 27°C)		
Oil & Grease Not to exceed: 10 mg/l.			Chemical Oxygen Demand		
	14		Oil & Grease		
		V	· ACATOMETERS		
	-				
		t _i		54	
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	141	+	the second of the busy time of		(4-14)
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	1.1		The second secon	The state of the s	
				Valuation in 198	
				29	
				THE STREET WITHOUT STREET	
The second of the Advance of the				AP PEND PLINE	

- 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.

Environmental Engineer

W. B. Pollution Control Boant
Operation & Execution Cal

(4)
Consent to MIS. Shakambhari Ispat & Power Hol.
Consent to
for its unit at VIII: Madandih, P.O Bartania, 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

		Francisco de la companya de la comp		CONTRACTOR OF THE PARTY OF	le-II	SACHER SPINS			o awaaad	Frequency
Stack No.	Stack height from	Stack attached to (sources and control system.	Volume -Nm³/hr	of gas	Concentrations of parameters not to exceed				of emission sampling	
Į)	GI., (in mts.)	if any):	WE:	m/sec	SPM (mg/Nm³)					
S-I	/	ELECTION OF THE PROPERTY OF TH			THEFT.	SACURAL PENCEN		TA	- 1	
S-2	Table 1.00		TOTAL STATE OF THE	THE STATE OF THE S			Marie Control		List's	
S-3			1					1		
S-4		8				yasi				44.
S-5					\bigvee		<i>y</i> ·			
S-6		=				/	/		,	A. Sand
S-7								/		
S-8						n d				
S-9		F X	à	1			,			
S-10										

W. B. Pollution Control Board Operation & Execution Cell

Environmental Engineer

Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

(5)	
Consent to MLS. Shakambhani Ispat & Power Utol.	250123.00
for its unit at Villi Madaudih, P.OBartonia, P.SXetunia	
Dist-Parulia, Pin-723121	
7	••••

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	3		4
03			
04		4624, NAMES ASSESSED.	A Rowse.
05			

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

Type of waste	Quantity	Treatment	Disposal
1	Paragraph and a state of the	THE STATE OF THE S	30 5
- \	digner of the same	and the Control	all .

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) Lea
Day Time (06 a.m. to 09 p.m.)	65
Night Time (09 p.m. to 06 a.m.)	CC

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for 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 an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the
- 21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution
- 22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe
 23. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe

23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

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

Environmental Engineer
W. B. Pollution Control Board

Operation & Execution Cell

Consent to Mls. Shakambhari Ispat & Power 11d.

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

Dist-Purulia, Pin-723121.

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

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

Additional Conditions See Annexure, - III

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

W. B. Pollution Control Board Operation & Execution Cell

Annexure - I

Annexure to Consent Letter Number - CO128973

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

Stack No.	Stack height from G.L (in mts.)	Stack attached to (sources and control system, if any)	Volume Nm³/hr	Velocity of gas emission m/sec	Concentration of parameters not to exceed			Frequency of emission sampling
	(iii iiiis.)			11,500	PM (mg/Nm³)	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)	4	-	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.

	Quantity	Treatment	Disposal
Type of waste		Treatment of the second	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	· · · · · · · · · · · · · · · · · · ·	63	Land filling
Dust from IF de-dusting unit	12 MT/month		Land mining

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.
- 3. The unit shall construct the concrete road around raw material handling area within 4 months.
- 4. The unit shall minimized fugitive emission at emission sources and working areas.
- 5. This consent may be revoked at any time on violation of environmental norms.
- 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 (2x9 MVA) for manufacturing	Amendment of CTO (CO128973) (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 Escit & Power Kingit-O.
(Address of Regd. office/Head/Office/City Office)
Thereinafter referred to as Applicant) for its unit located at existing unit premises in
VIII: - Madardih, P.O. Bartonia, P.J Neturia,
Dist-Purulia, Pin-723121
(Detailed address of the manufacturing unit)
for a period from date of 188 12 10 31 07 / 2023
to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any
nstance 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 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 Mks. Shakambani Tepat & Power Kimited
for its unit at Villi Madaudih, P.O Bartenia, P.S Neturia,
Oist-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	TMT bars/wines	1, 20, 100 TPA
02	(Rolling Mill-400TPD)	
03		
04		
05	WESTBE	NGAL
06		
07		
08		
09		
10		
11		
12		7/37

02.	The Applicant shall remain responsible	e for	quantity and	d quality	of	liquid	effluent and	l 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 (out) 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. Poliution Control Readmined.......
Operation & Execution Cell

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

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
Ôl	Mixed	pH	Between: 5.5 to 9.0	Yearly
		Total Suspended Solids	Not to exceed: 10 omg/1.	0
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 2 p mg/1.	
1.		Chemical Oxygen Demand	Not to exceed: 250 mg/1.	
		Oil & Grease	Not to exceed: 1D mg/1.	12
14	_			
		CONTRACTOR OF STREET		
		N AN A ROOM SHOW MAN AND A LOCAL DESIGNATION OF THE PARTY NAMED IN COLUMN 2 IN	0 1 1	
		WEN BEN	(iA)	
		The state of the s		
		Providence of the Control of the Con	CHARLES TO CONTRACT TO THE CON	
			Name of the last o	

10 Daily water consumption for the following purposes should not exce	d

- 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. Shakam bari Ispat & Power Kimited
Consent to 1115: 5 not Salve Pond 18 pour 1 1000 ca Allest 1.5521
for its unit at Mill: Modardih, Bo Bastonia, P.S Neturia
Dist-Purulia, Pir-723121

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

Table-II

Stack No.	Stack height from	Stack attached Ao (sources and control system.	Volume Nm³/hr.	Velocity of gas emission	Concen	Frequency of emission sampling				
	GI., (in mts.)	if any):	WE:	5 m/sec	SPM (mg/Nm ³)	(%\/\)	AL			
S-I		As	per-	existin	ga	8 210	george	ent.		
S-2										
S-3		1						1		
S-4						y A				
S-5		9								
S-6										
S-7										
S-8					7					
S-9					1					
S-10										

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

		(5)	*
Consent to MLS	Shakambari	Ispat & Power	dimited
for its unit at VIII	: Madandih,	RoBastonia	, PS-Neturia,

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:-

Dist-Purulia, Pin-723121

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

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

Type of waste	Quantity	Treatment	Disposal
1			4

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.)

Environmental Engineer

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

Operation & Execution Control Control

Consent to Mls. Shakambari Ispat & Power dinited	*************
for its unit at Vill: Madandih. P.O Bastonia, P.S Neturia,	
Dist-Punulia, Pin-723121	1

- 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

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

Annexure to Consent Letter Number - CO128998

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

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

Environmental Engineer
West Bengal Pollution Control Board

Expansion CFO

WEST BENGAL POLLUTION CONTROL BOARD

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



Consent Letter Number: C0131924

S. Shakambhari

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

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

Date: 10/03/2021,

Consent to Operate

under

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

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

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

For and on behalf of the State Board

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

	(hereinafter referred to as Applicant) for its unit located at VIII Madandih, P.O Bartonia,
	P.S Neturia, Dist-Purulia, Pin-723121
	(Detailed address of the manufacturing unit)
	for a period from date of issue to 31/07/2023
	to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.
	Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.
	The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant. This consent is valid for operating 1x100 TPD & 1x600 TPD
	DRI Kilms for production of Sponge Iron - 224000 Ton/Year. and both the kilms are provided with WHRBS (10TPH & 64 TPH)
(and both The 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 Bartonia, P.S Neturia,
Dist-Punulia, 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		The state of the s
04		
05	WEST BE	NGAL
06	AND DESCRIPTION OF THE PERSON	
07		
08		
09		
10		
11		
12		7/207

- 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.)

W. B. Pollution Control Board
Operation & Execution Cell

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 PARTY OF TH		
		The state of the state of the state of	
			model 1
	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. Shakambhari 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	Stack attached to (sources and	Volume Nm³/hr.	Velocity of gas emission m/sec	Concent	exceed	Frequency of emission sampling			
	from G.I., (in mts.)	control system. if any):	WE		SPM (mg/Nm³)	CO (%v/v)	AL			sampling
S-I		-		See	Ann	exw	re-	<u>T</u> -		
S-2	\									14
S-3								1		
S-4						7 45	15 BY			
S-5										
S-6										EXTREM S
S-7				YALLEN TURK						
S-8		SALE I			e to ke e				1	
S-9										
S-10					-Alan					

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

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

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

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

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

Type of waste	Quantity	Treatment	Disposal
Dolochar	3135 MT/Mouth	eno v ostoma	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. Shakambhari Ispat & Power Utd.	
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. Horvali 3/27

Additional Conditions See Annexure. IT

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

W. B. Pollution Control Board Operation & Execution Cell

Annexure-II to Consent Letter Number - CO131924

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

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

Environmental Engineer West Bengal Pollution Control Board

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	eight	Volume Nm³/hr	Velocity of gas emission m/sec	Concentration	reed 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

10 03 2,1

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

Annexure – 12A



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FORMAT NO.: ENV/FM/58

TEST REPORT

1.	Name of the	Industry		:	Shakambhari Ispat	& Power Limited.	MI / NI		
2.	Address			:	Vill Madandih,	P.O - Bartoria, P.S - N	eturia, District - Purulia,		
					Pin - 723121				
3.	3. Type of Industry			:	Steel & Power Unit				
4.	Sampling Pl	an & Procedure		:	ENV/SOP/01	20.0			
5.		om the Sampling Method & Pl	lan	:	No				
6.	Type of Sam	iple		:	Work Zone Noise				
7.	Sample ID			:	213/EC/M/N				
8.	Report ID				213/EC/M/TR(N)/2	21-22			
9.	Date of Stud			:	22/09/2021				
10.	Reporting D	ate		:	01/10/2021				
11.	Method No.			:	IS: 9989 - 1981				
12.	Time of Dur	ration of Noise		:	20 Minutes				
13.		Ground Level		:	4 feet				
14.	Sample Mon	nitoring by			Mr. Sanjay Guha				
		RESULT OF	NOISE LE	EVE	L STUDY		Time :10:00 - 10:20 A.M		
					DAY TIME				
	cation : Near	Store (Rolling Mill Division)							
Sl.	Unit	Minimum]	Maximum	Leq	Remarks		
No.		dB(A)			dB(A)	dB(A)			
01.	dB(A)	78.2		80.6		79.56	East Side		
02.	dB(A)	80.4			82.2	81.39 79.84	West Side		
03.	dB(A)	dB(A) 78.6			80.8	North Side			
04.	dB(A)	79.5			83.6	82.02	South Side		
				Αī	verage dB(A) Leg	80.70			

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

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

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

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FORMAT NO.: ENV/FM/58

TEST REPORT

1.	1. Name of the Industry			:	Shakambhari Ispat	& Power Limited.					
2.	Address				Vill Madandih,	P.O - Bartoria, P.S - Ne	eturia, District - Purulia,				
					Pin - 723121						
3.	3. Type of Industry				Steel & Power Unit	Steel & Power Unit					
4.	Sampling Pl	an & Procedure		:	ENV/SOP/01	- 21					
5.	Deviation fr	om the Sampling Method & P	lan	:	No	2.2					
6.	Type of Sam	ple		:	Work Zone Noise						
7.	Sample ID			:	213/EC/M/N						
8.	Report ID				213/EC/M/TR(N)/	21-22					
9.	Date of Stud	y		:	22/09/2021						
10.	Reporting D	ate		:	01/10/2021						
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. Sanjay Guha						
		RESULT OF	NOISE LE	EVE	EL STUDY		Time :10:30 - 10:50 A.M				
					DAY TIME						
2. Lo	cation : Near	Control Room of SMS Division	n								
Sl.	Unit	Minimum			Maximum	Leq	Remarks				
No.		dB(A)			dB(A)	dB(A)					
01.	dB(A)	80.4		82.8		81.76	East Side				
02.	dB(A)	76.8	80.6		80.6	79.10	West Side				
03.	03. dB(A) 78.2			81.8		80.36	North Side				
04.	04. dB(A) 80.8				82.7 81.85 South Side						
				Αı	verage dB(A) Leq	80.76					

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

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FORMAT NO.: ENV/FM/58

TEST REPORT

1.	1. Name of the Industry			:	Shakambhari Ispat	& Power Limited.			
2.	Address			:	•	P.O - Bartoria, P.S - Ne	turia, District - Purulia,		
					Pin - 723121				
3.	Type of Indu	ıstry		:	Steel & Power Unit	2.0			
4.		an & Procedure		:	ENV/SOP/01				
5.	Deviation fr	om the Sampling Method & Pl	an	:	No				
6.	Type of Sam	ple		:	Work Zone Noise				
7.	Sample ID			:	213/EC/M/N				
8.	Report ID		1		213/EC/M/TR(N)/	21-22			
9.	Date of Stud	y		:	22/09/2021				
10.	Reporting D	ate		:	01/10/2021				
11.				:	IS: 9989 - 1981				
12.	Time of Dur	ation of Noise		:	20 Minutes				
13.	Height from	Ground Level		:	4 feet				
14.	Sample Mon	itoring by	-6.1		Mr. Sanjay Guha				
		RESULT OF	NOISE LE	EVE	L STUDY		Time :11:00 - 11:20 A.M		
					DAY TIME				
3. Lc	cation : In fro	ont of MC Control Room (DRI -	· 350 TPE	D X	2)				
Sl.	Unit	Minimum		N	Maximum	Leq	Remarks		
No.		dB(A)			dB(A)	dB(A)			
01.	dB(A)	75.5	78.8		78.8	77.46	East Side		
02.	dB(A)	76.8	79.4		79.4	78.29	West Side		
03.	03. dB(A) 75.7				78.6	77.39	North Side		
04.		80.2			83.4	82.09	South Side		
				Av	erage dB(A) Leq	78.80			

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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FORMAT NO.: ENV/FM/58

TEST REPORT

1.	1. Name of the Industry			:	Shakambhari Ispat	& Power Limited.			
2.	Address			:		P.O - Bartoria, P.S - Ne	eturia, District - Purulia,		
					Pin - 723121				
3.	3. Type of Industry			:	Steel & Power Unit				
4.	Sampling Pla	an & Procedure		:	ENV/SOP/01	2.0			
5.	Deviation fr	om the Sampling Method & Pl	lan	:	No				
6.	Type of Sam	ple		:	Work Zone Noise				
7.	Sample ID			:	213/EC/M/N				
8.	Report ID				213/EC/M/TR(N)/	21-22			
9.	Date of Stud	y		:	22/09/2021				
10.	Reporting D	ate		:	01/10/2021				
11.				:	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. Sanjay Guha				
		RESULT OF NO	DISE LEVE	EL S	STUDY	Tim	ie:11:30 - 11:50 A.M		
					DAY TIME	·			
4. Lo	cation : In be	tween CPP - 12 MW and DRI -	- 100 TPD) A	rea				
Sl.	Unit	Minimum		ľ	Maximum	Leq	Remarks		
No.		dB(A)			dB(A)	dB(Å)			
01.	dB(A)	79.6		80.2		79.91	East Side		
02.	dB(A)	78.2	81.8		81.8	80.36	West Side		
03.	03. dB(A) 77.8			82.3 80.61		80.61	North Side		
04. dB(A) 78.4					81.8 80.42 South Side				
				Αv	erage dB(A) Leq	80.32			

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

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

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FORMAT NO.: ENV/FM/58

TEST REPORT

1.	1. Name of the Industry			: Shakambhari Isp	at & Power Limited.	87.90			
2.	Address			: Vill Madandil	n, P.O - Bartoria, P.S - N	Neturia, District - Purulia,			
				Pin - 723121					
3.	Type of Industry			: Steel & Power Un	it				
4.	Sampling Pl	an & Procedure		: ENV/SOP/01	2.1				
5.	Deviation fr	om the Sampling Method & P	lan	: No					
6.	Type of Sam	ple		: Work Zone Noise					
7.	Sample ID			: 213/EC/M/N					
8.	Report ID			213/EC/M/TR(N)/21-22				
9.	Date of Stud	y		: 22/09/2021					
10.	Reporting D	ate		: 01/10/2021					
11.	Method No.			: IS: 9989 - 1981	IS: 9989 - 1981				
12.	Time of Dur	ation of Noise		: 20 Minutes	20 Minutes				
13.	Height from	Ground Level		4 feet					
14.	Sample Mon	itoring by		Mr. Sanjay Guha					
		RESULT OF	NOISE LE	VEL STUDY		Time :12:30 - 12:50 PM			
				<u>DAY TIME</u>					
5. Lo	cation : Near	SAF Control Room (Ferro All	oy Divisio	n)					
Sl.	Unit	Minimum		Maximum	Leq	Remarks			
No.		dB(A)		dB(A)	dB(A)				
01.	dB(A)	78.4		82.2	80.70	East Side			
02.	dB(A)	80.2	83.6		82.22	West Side			
03.	dB(A)	(A) 81.8		83.8	82.91	North Side			
04.	04. dB(A) 78.6			82.6 81.05 South Side					
				Average dB(A) Leg	81.72				

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

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

Sampling Locations :	Near Security Gate – Southern Side	Date of Study :	22.09.2021
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	62.9	65.1	64.14	
7:00 AM to 8:00 AM	64.9	67.5	66.39	
8:00 AM to 9:00 AM	65.8	68.6	67.42	
9:00 AM to 10:00 AM	67.5	69.7	68.74	
10:00 AM to 11:00 AM	67.6	70.5	69.29	
11:00 AM to 12:00 PM	68.7	72.9	71.29	
12:00 PM to 1:00 PM	70.6	73.5	72.29	68.67
1:00 PM to 2:00 PM	71.3	73.1	72.10	
2:00 PM to 3:00 PM	68.6	72.1	70.69	
3:00 PM to 4:00 PM	69.3	69.2	68.53	
4:00 PM to 5:00 PM	65.4	67.6	66.64	
5:00 PM to 6:00 PM	64.9	66.7	65.89	
6:00 PM to 7:00 PM	66.3	69.1	67.92	
7:00 PM to 8:00 PM	65.1	66.1	65.63	
8:00 PM to 9:00 PM	62.3	64.9	63.79	
9:00 PM to 10:00 PM	62.3	66.7	65.03	

Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	60.5	65.4	63.61	
11:00 PM to 12:00 AM	61.6	64.3	63.16	
12:00 AM to 1:00 AM	59.8	62.7	61.49	
1:00 AM to 2:00 AM	60.4	64.7	63.06	62.20
2:00 AM to 3:00 AM	57.7	63.1	61.19	
3:00 AM to 4:00 AM	59.1	62.7	61.26	
4:00 AM to 5:00 AM	60.4	61.7	61.10	
5:00 AM to 6:00 AM	59.4	63.4	61.85	

L_{min}: Minimum Noise level

 L_{max} : Maximum Noise level

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

Compiled by : (Signature) Envirocheck Seal Dr. Ajoy Paul Date: 01.10.2021



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

Sampling Locations :	Madandih Village (0.5 km from Plant) – Eastern Side	Date of Study:	22.09.2021
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	43.4	48.1	46.36	
7:00 AM to 8:00 AM	44.6	49.7	47.86	
8:00 AM to 9:00 AM	46.3	52.2	50.18	
9:00 AM to 10:00 AM	46.7	53.9	51.65	
10:00 AM to 11:00 AM	47.3	55.3	52.93	
11:00 AM to 12:00 PM	47.6	55.7	53.32	
12:00 PM to 1:00 PM	49.7	56.6	54.4	
1:00 PM to 2:00 PM	51.3	55.4	53.82	52.81
2:00 PM to 3:00 PM	52.3	56.4	54.82	
3:00 PM to 4:00 PM	51.9	55.7	54.20	
4:00 PM to 5:00 PM	49.3	56.1	53.91	
5:00 PM to 6:00 PM	50.7	54.3	52.86	
6:00 PM to 7:00 PM	49.7	56.2	54.07	
7:00 PM to 8:00 PM	50.4	53.5	52.22	
8:00 PM to 9:00 PM	49.4	54.6	52.74	
9:00 PM to 10:00 PM	47.6	54.1	51.97	

Study: 22.09.2021 to 23.09.2021 Night time: 1	10 PM to 6 AM
---	---------------

Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	41.5	49.7	47.30	
11:00 PM to 12:00 AM	41.9	48.1	46.02	
12:00 AM to 1:00 AM	39.7	41.7	40.81	
1:00 AM to 2:00 AM	40.3	42.6	41.60	43.88
2:00 AM to 3:00 AM	39.9	42.1	41.14	
3:00 AM to 4:00 AM	40.4	42.1	41.33	
4:00 AM to 5:00 AM	38.5	40.2	39.43	
5:00 AM to 6:00 AM	43.9	47.4	45.99	7

 $L_{\text{min}}\,$: Minimum Noise level

 L_{max} : Maximum Noise level

L_{eq}: Equivalent sound energy

Compiled by: (Signature)

Dr. Ajoy Paul

Envirocheck Seal Date: 01.10.2021

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

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

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









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

Sampling Locations:	Near Power Plant Control Room – Western Side	Date of Study :	22.09.2021
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	69.4	72.6	71.29	
7:00 AM to 8:00 AM	71.2	73.5	72.50	
8:00 AM to 9:00 AM	68.2	73.4	71.54	
9:00 AM to 10:00 AM	70.5	72.8	71.80	
10:00 AM to 11:00 AM	69.4	75.3	73.28	
11:00 AM to 12:00 PM	71.9	74.7	73.52	
12:00 PM to 1:00 PM	70.2	75.1	73.31	
1:00 PM to 2:00 PM	68.7	71.4	70.26	71.30
2:00 PM to 3:00 PM	69.5	72.6	71.32	
3:00 PM to 4:00 PM	70.9	72.4	71.71	1
4:00 PM to 5:00 PM	69.1	72.5	71.12	1
5:00 PM to 6:00 PM	67.8	71.4	69.96	
6:00 PM to 7:00 PM	69.6	71.8	70.71]
7:00 PM to 8:00 PM	68.6	70.5	69.65]
8:00 PM to 9:00 PM	70.2	72.1	71.25]
9:00 PM to 10:00 PM	68.4	70.6	69 64	1

Date of Study :	22.09.2021 to 23.09.2021	Night time :	10 PM to 6 AM

Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	69.1	72.2	70.92	
11:00 PM to 12:00 AM	68.5	71.6	70.32	1
12:00 AM to 1:00 AM	66.1	70.4	68.76	1
1:00 AM to 2:00 AM	64.9	69.6	67.86	69.69
2:00 AM to 3:00 AM	65.8	70.4	68.68	
3:00 AM to 4:00 AM	68.3	69.7	69.06	
4:00 AM to 5:00 AM	67.1	72.4	70.51	
5:00 AM to 6:00 AM	68.4	71.8	70.42	

L_{min}: Minimum Noise level

L_{max}: Maximum Noise level

L_{eq}: Equivalent sound energy

Compiled by : (Signature)

Envirocheck Seal Dr. Ajoy Paul

Date: 01.10.2021



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

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

Sampling Locations :	Near Laboratory Building (SMS Division) – Northern Side	Date of Study :	22.09.2021
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	59.1	61.5	60.46	
7:00 AM to 8:00 AM	60.1	62.7	61.59	
8:00 AM to 9:00 AM	61.8	64.3	63.23	
9:00 AM to 10:00 AM	62.7	68.1	66.19	
10:00 AM to 11:00 AM	64	69.4	67.49	
11:00 AM to 12:00 PM	65.3	70.3	68.48	
12:00 PM to 1:00 PM	63.4	71.3	68.94	67.17
1:00 PM to 2:00 PM	65.3	72.1	69.91	
2:00 PM to 3:00 PM	64.3	68.3	66.75	
3:00 PM to 4:00 PM	62.3	69.4	67.16	
4:00 PM to 5:00 PM	63.4	70.4	68.18	
5:00 PM to 6:00 PM	61.9	68.3	66.19	
6:00 PM to 7:00 PM	62.3	69.5	67.25	
7:00 PM to 8:00 PM	61.2	71.6	68.97	
8:00 PM to 9:00 PM	60.5	69.1	66.65	
9:00 PM to 10:00 PM	62.9	69.8	67.60	

Date of Study :	22.09.2021 to 23.09.2021	Night time :	10 PM to 6 AM

Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	63.4	66.3	65.09	
11:00 PM to 12:00 AM	61.9	65.7	64.20	
12:00 AM to 1:00 AM	60.3	64.9	63.19	
1:00 AM to 2:00 AM	59.9	63.4	61.99	62.73
2:00 AM to 3:00 AM	61.8	63.4	61.67	
3:00 AM to 4:00 AM	59.1	61.9	60.72	
4:00 AM to 5:00 AM	58.3	62.3	60.75	
5:00 AM to 6:00 AM	61.4	62.7	62.10	

L_{min}: Minimum Noise level

L_{eq}: Equivalent sound energy

Compiled by : (Signature) Envirocheck Seal Dr. Ajoy Paul Date: 01.10.2021



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

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

Laboratory

: 189,190&192 Rastraguru Avenue, Kolkata - 700028 (033-25792889): envcheck@cal2.vsnl.net.in/envirocheck50@gmail.com / Website : www.envirocheck.org

Annexure – 13

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. Facilit	Facilities	ies Configurations			Product	Production	End Use
		Existing	Expansion	Final	T instituted	32 934 S	Osc
1. %	Coal Washery	O sociation	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	tava9 ss	0.63 MTPA	0.63 MTPA	Beneficiated IO Tailings	0.394 MTPA 0.236 MTPA	Pellet Sale/ Landfill
4.	Sinter Plant	new with	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	and prigori	1x350m ³	1x350m ³	Hot metal	2,49,900 TPA	IF
8.	Ferro Alloy Plant	The good nother had	2X12 MVA 2X12 MVA	2X12 MVA 2X12 MVA	Fe-Mn Si-Mn	36,608TPA 26,542 TPA	IF .
9.	IF with LRF & or AOD		2X35T, 4X25T	1x8T,2x1 5T 2X35T,4 X25T	Billet	5,23,950TP A with Ferro-alloys	Rolling Mill
10.	Oxygen Plant	- Barana	225 m ³	225 m ³	Oxygen	28 Area about	MBF
11.	Lime Plant	e vene i	250 TPD	250 TPD	Calcined Lime	80,000 TPA	DRI/Bill et/Sinter
12.	AFBC	6MW	59 MW	65 MW		65 MW Power	Internal Use
13.	WHRB	6MW	28 MW	34 MW		34 MW Power	Internal Use

Sl. No.	Raw Material	Quantity in TPA	Sourcing	Mode of transport
1.	Coke	1,92,871	Local purchase	Road
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,

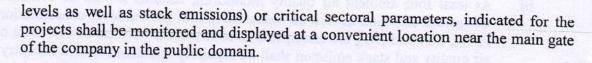
- dust suppression and green belt development. ETP sludge should be disposed off scientifically.
- ix. All the coal fines, char from DRI plant shall be utilized and no char shall be used for briquette making or disposed off anywhere else. All the other solid waste including broken refractory mass shall 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:

SI. No.	Faciliti es	Capacities as per EC letter No. J- 11011/201/2013- IAII(I) dated 21.12.2016		Existin	g Status	Amendment Required (Final Configuration)		Remarks
				Implemen ted	Unit not			
		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 implemented 1x8T, 2x12T, 2x15 T and by revising 2x35T capacity furnaces, which is yet to be implemented. Total number of units reduced from 11 to 9.
		232 Т		112 T	120 T	225 T		
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 (not yet implemented) to achieve better productive ty, high steam generation, less land & water
		1700 TPD		1000 TPD	700 TPD	1700 TPD		

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
	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
3	WHRB	34 MW	34 MW	20 MW	14 MW	37 MW	37 MW	of WHRB increased from 34 MW to 37 MW due to improved steam
	TOTAL CPP	99 MW		52 MW	47 MW	99 MW		generation from proposed combinati on of (1x600TP D +1 x100 TPD) DRI.
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 MVA	63150 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	No Change
6	Coal Washer y	0.74 MTPA	Clean Coal- 0.33MTP A	-	0.74 MTPA	0.74 MTPA	Clean Coal- 0.33MTP A	

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	
			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 tcd 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	_	1x20 m ²	1x20 m ²	1,98,000 TPA	
9	Pellet Plant	1x1870 TPD	5,82,000 TPA	-	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	-	
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 – 14



R K Mishra <rk.mishra@shakambharigroup.in>

Submission of Environment Statement (Form-V) for FY: 2020-21 of M/S **Shakambhari Ispat & Power Limited**

1 message

R K Mishra <rk.mishra@shakambharigroup.in>

Sat, Oct 16, 2021 at 7:17 PM

To: mswarupk@wbpcb.gov.in

Cc: rdez@fsi.nic.in, Sanjeev Kumar Sachan <sanjeev.sachan@shakambharigroup.in>

Dear Sir,

With reference to above subject we are submitting attached herewith the Environment Statement (Form-V) for the financial year ending 31st March, 2021 of M/s Shakambhari Ispat & Power Limited, Vill-Madandih, PO-Bartoria, Dist-Purulia (WB) for your kind consideration please.

Kindly acknowledge our submission

With regards,

Yours faithfully,

for Shakambhari Ispat & Power Limited

R. K. Mishra **DGM-EHS**

