

Ref: - SIPL/SMC/MoEFCC/OCT 2019-MAR 2020

Date: 12.06.2020

To,
The Dy. Director General of Forests (Central)
Eastern Regional Office,
Ministry of Environment Forests & Climate Change,
A/3, Chandrashekharpur, Bhubaneswar – 751023 (Odisha)

SUB: Six Monthly (October 2019 to March 2020) Compliance to Environmental Clearance conditions vide MoEFCC F. No. J-11011/201/2013-IA II (I) Dated: 21.12.2016 by M/s Shakambhari Ispat & Power Limited, Vill-Madandih, PO-Bartoria, Dist- Purulia (WB)

Dear Sir,
With reference to above, we are submitting herewith the six monthly compliance report (period: Oct. 2019 to March 2020) of M/s 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 your 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**

Authorized Signatory

Encl: as above



Copy to:

The Sr. Environmental Engineer, West Bengal Pollution Control Board, Asansol Regional Office ,
ADDA Commercial Market (2nd Floor), Oppo. Asansol Fire Station, GT Road, Asansol-713301
Dist-Paschim Burdwan (WB).

SIX MONTHLY COMPLIANCE REPORT

October, 2019 - March, 2020



Prepared by:

M/S Shakambhari Ispat & Power Limited
Village-Madandih, P.O. – Bartoria, P.S-Neturia,
Dist. – Purulia, Pin-723121, West Bengal



Six Monthly EC Compliance Report

Name of the Project	:	Shakambhari Ispat & Power Limited Villia-Madandih, PO-Bartoria Dist.-Purulia (WB)
Environmental Clearance F. No.	:	J-11011/201/2013-IA II (I) Date: 21.12.2016
Period of Compliance Report	:	October 2019 to March 2020

Sl. No.	CONDITIONS	COMPLIANCE STATUS
SPECIFIC 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 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 2B and 2C nearby Parbelia village. Adequate arrangement has been made proper handling of above materials.
iii.	In-plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant etc. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control the dust emissions. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.	We have 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 below 50 mg/Nm ³ and installing energy efficient technology.	Online Continuous Emission Monitoring System (OCEMS) have been installed at Stacks of DRI and CPP. Air pollution control devices viz. ESPs and bag filters along with dust extraction and suppression system have been installed and efficiently operated to control emission level well within the norms. Third party monitoring by NABL accredited laboratory being conducted periodically to evaluate the emission levels. Latest stack monitoring report is 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 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.	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	Most of the internal roads in DRI section are concreted and concreting of the roads at CPP is in progress, photographs are enclosed as Annexure-3 We have already purchased automated road

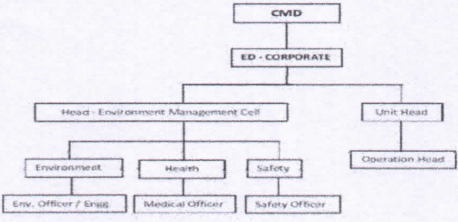


	from the linked coalmines shall be created within the Unit.	sweeping machine and the same is operational Annexure-4 Progressive measures are being taken to develop avenue plantation using indigenous species i. e. Mehagini, Segun, Radhachura, Neem, Arjun, Sphodia, Bat, Peepal, Bakul, Conocarpus, Kadam etc. along the plant periphery as well as inside the plant. Some pics are attached as Annexure-5 Parking area for the trucks carrying raw coal within the unit has been provided.
xi	The Standards issued by the Ministry vide G.S.R. No. 277(E) dated 31st March, 2012 regarding integrated iron and steel plant shall be followed.	It is being followed.
xii	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed	It is being followed. Latest Ambient Air Quality Monitoring report is attached as Annexure-6
xiii	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	Utmost priority is given to reduce the air pollution within the plant. Suitable control measures have been undertaken to keep Gaseous emission levels including secondary fugitive emissions within the latest permissible limits. 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 for effluent, surface and ground water 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 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)

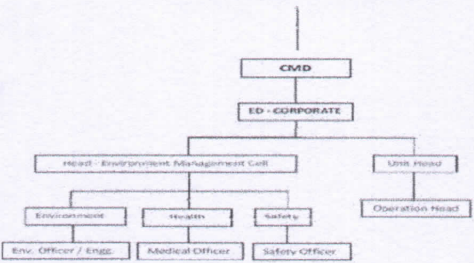


		<p>Fly ash is being utilized in fly ash brick manufacturing. Accordingly company has made agreement for the same. Copy of the agreement is enclosed as Annexure-9</p> <p>Induction Furnace slag and Bottom Ash are being used for land filling and road construction work.</p>
xvii	Proper utilization of fly 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
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 and we are in the process of regular compliance of commitments made during public hearing. Various CSR activities have been undertaken by SIPL for the benefit of local community of nearby villages i. e. free health checkup camp and medicines distributions program, distribution of study material to the school students, repairing of school buildings, providing sitting arrangement to the school students. 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.	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, organizing free



	<p>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.</p>	<p>medical health checkup and medicine distribution camp for nearby villagers, blanket distribution to poor villagers in winter season, plants distribution for encouragement of social forestry, drinking water supply and social causes etc.</p>
<p>xxii</p>	<p>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.</p>	<p>SIPL have undertaken various activities in nearby villages in consultation with local communities for their benefit of health, education, plantation, 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.</p>
<p>xxiii</p>	<p>The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to bring into focus any infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of noncompliance/ violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.</p>	<p>It is compiled and already submitted. SIPL have implemented standard operating procedure to look into any infringement/ deviation/violation of environmental or forest norms/ conditions.</p> <p>SIPL have also the Hierarchical system/ Administrative order to deal with environmental issues and compliance of EC conditions.</p>  <pre> graph TD CMD[CMD] --> ED[ED - CORPORATE] ED --> HEMC[Head - Environment Management Cell] ED --> UH[Unit Head] HEMC --> Env[Environment] HEMC --> Health[Health] HEMC --> Safety[Safety] Env --> EnvOff[Env. Officer / EnSB] Health --> MedOff[Medical Officer] Safety --> SafOff[Safety Officer] UH --> OpH[Operation Head] </pre>



		<p>SIPL have in placed reporting system for non compliance / violation of environmental norms.</p> <p style="text-align: center;">Board of Directors</p>  <pre> graph TD CMD[CMD] --> ED[ED - CORPORATE] ED --> HEMC[Head - Environment Management Cell] ED --> UH[Unit Head] HEMC --> E[Environment] HEMC --> H[Health] HEMC --> S[Safety] UH --> OH[Operation Head] E --> EO[Env. Officer / Enge] H --> MO[Medical Officer] S --> SO[Safety Officer] </pre>
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.	We have already started installation of the solar lighting system in strategic areas as directed.
xxv	The project proponent shall provide for LED lights in their offices and residential areas.	Complied.
xxvi	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	It is being complied.
GENERAL CONDITIOS:		
i.	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and State Government.	Being adhered as per the stipulation made by WBPCB and State Government. Consent to Operate obtained from WBPCB is attached as Annexure -10
ii.	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	No further modification or expansion will be undertaken without prior approval of the MoEF & CC.
iii.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/ CPCB once in six months.	Ambient Air Quality Monitoring being carried on as per direction in consideration of maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ , and NO _x . Latest Ambient Air Quality monitoring report and stack monitoring report is enclosed as Annexure-6 & Annexure-1



iv.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Being complied.
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 night time.	Noise control measures 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- 11A & 11B
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 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 have been earmarked 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. Suitable manpower have been engaged for an efficient operation, monitoring and maintenance of the devices installed.



x.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Clearance letter is sent to concerned local body. The EC copy is attached as Annexure-12
xi.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF &CC at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Being complied. Compliance status being periodically uploaded on the company website http://shakambhariispat.com/environmental-compliance
xii.	The project proponent shall also submit six monthly report status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF & CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/ CPCB/SPCB shall monitor the stipulated conditions.	Six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data being submitted to MoEF & CC and Pollution Control Board in both soft & hard copies. This time it is submitted in soft copy only as per direction of Hon'ble MoEFCC F.NO. 106-12/EPE dtd. 11.05.2020
xiii.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF&CC at Bhubaneswar by e-mail.	It is being complied. The environment statement of the ending financial year 31st March, 2020 will be submitted to SPCB in Form-V and compliance status will be sent to Regional Office of the MoEFCC as per direction.



xiv.	The project proponent shall inform the public that the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment, Forest and Climate Change (MoEF&CC) at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and copy of the same should be forwarded to the Regional Office at Bhubaneswar	Complied.
xv.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Financial closure as well as date of start of land development work has already been informed.

