

**Half Yearly Compliance Report
2024
01 Jun(01 Oct - 31 Mar)**

Acknowledgment

Proposal Name	Renovation & Modernization of Existing Blast Furnace (600 m3 to 750 m3) to enhance Hot metal/pig Iron production (650000 TPA to 750000 TPA) at Siltara Growth Centre, Siltara District Raipur Chhattisgarh				
Name of Entity / Corporate Office	Jayaswal Neco Industries Limited				
Village(s)	N/A				
District	RAIPUR				
Proposal No.	IA/CG/IND/6695/2008		Category	Industrial Projects - 1	
Plot / Survey / Khasra No.	N/A		Sub-District	N/A	
State	CHHATTISGARH		Entity's PAN	NA	
MoEF File No.	J-11011/883/2008-IA.II(I)		Entity name as per PAN	NA	

Compliance Reporting Details

Reporting Year 2024
Remarks (if any)
Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office Jayaswal Neco Industries Limited

	Project Area as per EC Granted	Annual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	417.35	417.35
Total	417.35	417.35

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Blast Furnace (Hot Metal)	Tons per Annum (TPA)	N/A	750000	00	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	ENERGY PRESERVATION MEASURES	All standard prescribed for the coke oven plant shall be followed as per the latest guidelines. Proper and full utilization of coke oven and gases in power plant using waste heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air.
PPs Submission: Complied The proposal is for renovation and Modernization (R&M) blast furnace. Hence this condition is not applicable; however coke oven gases are being utilized in the power generation in our existing coke oven unit.		Date: 31/05/2024
2	AIR QUALITY MONITORING AND PRESERVATION	Efforts shall be made to reduce RSPM levels in the ambient air and time bound action plan shall be submitted. On line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep emission levels below 100 mg/Nm ³ . Gas cleaning plant having dust catcher and bag filter along with stacks of adequate height as per CPCB guidelines shall be provided to Blast Furnace (BF) to control emissions within 100 mg/Nm ³ shall be provided to control emissions from the blast furnace (BF) and sinter plant.
PPs Submission: Complied 04 Nos. Online AAQM Stations had been installed for continuous monitoring of Ambient Air Quality and On-line stack monitor (Opacity meter) has been provided in all the process stacks. All the online monitoring equipment's are connected with the CPCB/SPCB server. Adequate air pollution control devices i.e., ESP, Bag House, Bag filters are attached to the various process units to control the SPM level. Gas cleaning plant has been provided. Particulate emissions from stacks are maintained below 50 mg/Nm ³ . Dedicated water tanker and fix type water sprinkler have been provided for regular water spray on the roads.		Date: 01/06/2024
3	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions from the various process units shall be conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The state board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission levels shall go beyond the prescribed standards. On line continuous monitoring system shall be installed in stack to monitor SPM and interlocking facilities shall be provided so that the process can be automatically stopped in case emission levels exceeds the limit. Data on ambient air quality, stack emission and fugitive emission shall be regularly submitted to the Ministry including its Regional office at Bhopal, Chhattisgarh, Environment Conservation Board (CECB) and Central Pollution Control Board (CPCB) once in the six months
PPs Submission: Being Complied 04 Nos. Online AAQM Stations had been installed for continuous monitoring of Ambient Air Quality and On-line stack monitor (Opacity meter) has been provided in all the process stacks. All the online monitoring equipment's are connected with the CPCB/SPCB server. Adequate air pollution control devices i.e., ESP, Bag House, Bag filters are attached to the various process units to control the SPM level. Gas cleaning plant has been provided. Particulate emissions from stacks are maintained below 50 mg/Nm ³ . Dedicated water tanker and fix type water sprinkler have been provided for regular water spray on the roads.		Date: 01/06/2024
4	AIR QUALITY MONITORING AND PRESERVATION	Gaseous emission levels including secondary fugitive emissions from blast furnace and sinter plant shall be control within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/ code of practices issued by the CPCB shall be followed.

		The emission standards issued by the Ministry in May 2008 shall be followed. Fugitive emissions shall be regularly monitored and records maintained.
PPs Submission: Being Complied Gaseous emission & secondary emission from the BF is regularly monitored & maintained within the limit. Guidelines/ code of practices issued by the CPCB are being followed. Regular monitoring of the fugitive emission is carried out at various sites as per the guidelines and records are being maintained.		Date: 01/06/2024
5	AIR QUALITY MONITORING AND PRESERVATION	Vehicular pollution due to the transportation of the raw materials and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product. All the raw material including fly ash transported in the closed containers only and shall not be overloaded. Vehicular emissions regularly monitored and record kept.
PPs Submission: Being Complied Vehicular pollution due to the transportation of raw materials and finished product are regularly monitored and controlled. Internal roads are concreted/ pucca. Regular cleaning is being done through road sweeping machine. Regular water spraying is being done to control the fugitive emissions.		Date: 31/05/2024
6	AIR QUALITY MONITORING AND PRESERVATION	Pulse jet bag filters will be provided to raw material stock house to control fugitive emissions. Dust extraction (DE) system to blast furnace, stock house, gas cleaning plant and sludge disposal system shall be provided. Dust suppression (SP) system to raw material handling area shall be provided. Covered conveyor shall be provided to the stock house, screen, feeder and discharging points. Fugitive emissions shall be regularly monitored and records maintained.
PPs Submission: Being Complied The Company has provided Pulse jet bag filter in stock house and cast house. Gas cleaning plant has been provided to clean flue gas from blast furnace. All conveyors are covered. Fugitive emissions are regularly monitored and records maintained. Regular water spray is carried out in the Raw Material handling area to control the fugitive emission.		Date: 01/06/2024
7	WATER QUALITY MONITORING AND PRESERVATION	Total requirement of the water from the Kharoon river for the proposed expansions shall not exceed 162 m3/hr . Dust laden water slurry from GCP shall be treated in ETP and re-circulated for the scrubbing after clarification in thickener. Treated waste water shall be 100% reused for the slag granulation. Phenolic effluent from coke oven shall be treated in BOD Plant and used for quenching of hot coke. All the waste water from process and domestic source shall be treated, recycled and reused for dust suppression and green belt development. No waste water shall be discharged outside the premises and "Zero" effluent discharge shall be ensured.
PPs Submission: Being Complied Compliance assured. Dust laden water slurry from GCP is being clarified in thickener and water is being reused for the slag granulation. There is no Phenolic effluent found in the recirculating water of Coke Oven Plant. The coke oven is Non-Recovery Type; hence BOD plant is not applicable. Recirculating water is being used for quenching of hot cake. All the waste water from process and domestic source are being treated in waste water treatment plant and reused in process, ash handling, dust suppression and green belt development and maintain the Zero discharge always.		Date: 01/06/2024
8	WATER QUALITY MONITORING AND PRESERVATION	Prior permission for the drawl of 162 m3/hr water from the Kharoon river from concerned department should be obtained.

PPs Submission: Complied Already permission obtained from WRD for water withdraws from Kharoon river.		Date: 31/05/2024
9	WATER QUALITY MONITORING AND PRESERVATION	The water consumption shall not exceed 16 m3/ton of steel as per prescribed standard.
PPs Submission: Being Complied The avg water consumption is below 10 M3/Ton noted in FY 2022-23		Date: 31/05/2024
10	WATER QUALITY MONITORING AND PRESERVATION	Ground water monitoring around the solid waste disposal site/secured landfill (SLF) should be carried out regularly and report submitted to the Ministry's Regional Office at Bhopal, CPCB and CECB.
PPs Submission: Being Complied Ground water monitoring around the solid waste disposal site/secured landfill (SLF) is being monitored by NABL Accredited Lab in six month basis.		Date: 01/06/2024
11	WASTE MANAGEMENT	All the blast furnace (BF) slag shall be granulated and used in cement production in the cement grinding unit at the site. Iron ore fines and other iron bearing solid waste shall be used in pellet and sinter plant. All the other solid wastes including broken refractory mass shall be properly disposed off in environment-friendly manner. Oily waste shall be provided to authorized recyclers/ re-processors.
PPs Submission: Being Complied The Blast furnace slag is granulated and sold to cement manufacturers. Flue Dust and GCP sludge is reused in sinter plant for sinter making. Used Oil is sold to the CPCB.		Date: 31/05/2024
12	WASTE MANAGEMENT	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
PPs Submission: Being Complied The Blast furnace slag is granulated and sold to cement manufacturers. Flue Dust and GCP sludge is reused in sinter plant for sinter making.		Date: 31/05/2024
13	WASTE MANAGEMENT	Proper handling, storage, utilization and disposal of all 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 at Bhopal, CECB and CPCB.
PPs Submission: Being Complied Analysis report of solid waste regarding toxic metal content in the waste material and its composition is carry out time to time by NABL accredited lab.		Date: 01/06/2024
14	GREENBELT	As proposed, green belt shall be developed in 33% within and around the plant premises to mitigate the effects of air emissions as per the CPCB guidelines in consultation with DFO.
PPs Submission: Complied A thick green belt has been developed along the peripheral boundary of the plant. More than 5 Lakh saplings have been planted in the plant and covered approx. 40% of area with green belt which is more than 33%.		Date: 31/05/2024
15	MISCELLANEOUS	All the recommendations made in the charter on corporate responsibility for the environment protection (CREP) for the steel

		sector shall be strictly implemented.
PPs Submission: Being Complied The charter on corporate responsibility for the environment protection (CREP) for the steel sector already implemented.		Date: 01/06/2024
16	MISCELLANEOUS	The Company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. the housing may be in the form of temporary structures to be removed after completion of the project.
PPs Submission: Complied The Company has provided all necessary infrastructure and facilities such as toilets, safe drinking water, medical health care etc for construction labour at the site. The project site is located near Raipur city and hence construction of housing is not required.		Date: 31/05/2024
General Conditions		
Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	Four air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional office at Bhopal and the CECB/CPCB once in six months.
PPs Submission: Being Complied 04 nos. Continuous ambient air Quality monitoring station (CAAQMS) and continuous emission monitoring system (CEMS) have been installed in plant. The real time data transmitting in CECB/CPCB server. Monthly Ambient and Stack emission monitored data is being submitted to CECB and once in six month to CPCB.		Date: 01/06/2024
2	WATER QUALITY MONITORING AND PRESERVATION	The Company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging ground water tables.
PPs Submission: Being Complied The Company has been constructed 10 nos. rain water harvesting pits and 05		Date: 31/05/2024
3	Corporate Environmental Responsibility	The project proponent shall also comply with all environmental protection measures and safe guard recommended in EIA/EMP report. Further the Company must undertake socio economic development activities in the surrounding villages like community development programmers, educational programmers, drinking water supply and health care etc.
PPs Submission: Being Complied The period of October 23 to March 24 Rs. 3.18 Cr have been invested on Environmental Protection Measures. The company regularly doing CSR activity Rs.1.17 Cr in our surroundings areas.		Date: 31/05/2024
4	MISCELLANEOUS	As proposed, Rs. 5.00 crores and Rs. 2.00 crores shall be earmarked towards capital cost and recurring cost/annum for the environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as state Government. An implementing schedule for implementing all the conditions stipulated here in shall be submitted to the Regional Office of Ministry at Bhopal. The funds so provided shall not be diverted for

		any other purposes.
PPs Submission: Agreed to Comply Noted.		Date: 31/05/2024
5	MISCELLANEOUS	The Regional Office of this Ministry at Bhopal/CPCB/CECB will monitor the stipulated conditions. A six-monthly compliance report and monitored data along with statistical interpretation shall be submitted to them regularly.
PPs Submission: Being Complied The Company is regularly submitting the six-monthly reports along with the monitoring data to the concerned statutory authorities.		Date: 31/05/2024
6	MISCELLANEOUS	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 CECB and may also be seen at Website of Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within the seven days 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 vernacular language of the locality concerned and a copy of the same should be forward to Regional Office.
PPs Submission: Complied Complied.		Date: 31/05/2024
7	MISCELLANEOUS	Project authorities shall inform the Regional Office as well as the Ministry, the date of the financial closure and final approval of the project by the concerned authorities and the date of the commencing the land development work.
PPs Submission: Agreed to Comply This is not a new project only capacity enhancement under renovation and modernization of exiting blast furnace.		Date: 31/05/2024
8	MISCELLANEOUS	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
PPs Submission: Agreed to Comply Noted.		Date: 31/05/2024
9	MISCELLANEOUS	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.
PPs Submission: Agreed to Comply Noted.		Date: 31/05/2024
10	MISCELLANEOUS	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.
PPs Submission: Agreed to Comply Noted.		Date: 31/05/2024

11	MISCELLANEOUS	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 Waste (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and Rules.
PPs Submission: Agreed to Comply Noted.		Date: 31/05/2024
12	WATER QUALITY MONITORING AND PRESERVATION	Industrial waste water properly collected, treated so as to conform to the standards prescribed under GSR 422 I dated 19th May, 1993 and 31 December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.
PPs Submission: Being Complied All the industrial waste water collected and treated in ETP and treated Water is being utilized for plant process, dust suppression and green belt development.		Date: 31/05/2024
13	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by the 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).
PPs Submission: Being Complied The noise levels are monitored regularly and overall noise level is kept below 85 dB (A) by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. We will always ensure that this is fully complied in future also. Monthly Ambient Noise level data monitored and submitted to CECB regularly		Date: 01/06/2024
14	Statutory compliance	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the state government.
PPs Submission: Agreed to Comply All the conditions, stipulated by the CECB will be adhered.		Date: 31/05/2024
15	Statutory compliance	No further expansion or modifications in the plant should be carried out without prior approval.
PPs Submission: Agreed to Comply Compliance assured.		Date: 31/05/2024
16	AIR QUALITY MONITORING AND PRESERVATION	In plant control measures for checking fugitive emissions from all vulnerable sources like spillage/raw material/coal handling etc. shall be provided. Further, specific measures like provision of dust suppression system consisting water sprinkling, suction hood, fans and bag filters etc. shall be installed at material transfer point, blast furnace, stock house and other enclosed raw material handling area, centralized de-dusting system i.e. collection of fugitive emission through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack appropriately designed height conforming to the standards for induction furnaces existing in the industry and proposed induction and arc furnaces. Fugitive emissions shall be regularly monitored and record maintained.

PPs Submission: Being Complied To control fugitive emissions from all vulnerable sources like spillage/raw material/coal handling etc. covering of belts and proper skirt arrangements have been provided. Centralized de-dusting system (Bag filters) has been provided in the Stock house and cast house in Blast Furnace and other raw material handling areas. Dedicated water tankers and fix type water sprinkler have been provided to control the fugitive emission as well as regularly clean the road by road sweeping machine. Regular monitoring of the environmental parameters are being carried out as per guidelines and records are maintained.		Date: 01/06/2024
17	Human Health Environment	Occupational Health Surveillance of the workers should be done on the regular basis and records maintained as per the Factories Act.
PPs Submission: Being Complied Periodical medical checkup is undertaken and records are maintained as per the Factories Act.		Date: 31/05/2024
Visit Remarks		
Last Site Visit Report Date:		02/02/2023
Additional Remarks:		