

Ref.: -NSPL/EMD/2017/194

Date: - 27.11.2017

The Director
Ministry of Environment and Forest, Climate Change
Regional Office (WCZ), Ground Floor
East Wing, New Secretariat Building,
Civil Line, Nagpur-440001

Sub. : Half Yearly Compliance Status of Environment Clearance up to Nov. 2017.

Ref: MOEF's Letter No. J-11011/398/2006-IA. II (I) dated 24.01.2007, Amendment dated 30th Sept. 2010 and dated 17th Dec. 2012

Dear Sir,

This has reference to Ministry of Environment and Forest letter no. J-11011/398/2006-IA-II (I) dated: 24/01/2007, Environment Clearance granted for Steel Melting Shop, Rolling Mill, AFBC Boiler, Oxygen Plant and Producer Gas Plant and as Amendment dated 30th Sept. 2010 and 17th Dec. 2012. We hereby enclosed half yearly compliance status for your observation and record please. (Soft copy enclosed in CD).

Thanking you.

With Regards,
For, Nalwa Steel and Power Limited

Amu - -
27-11-17
S.S. Rathi

Whole Time Director
DIN No. 06986371

Encl.: As above

- Copy to:
1. Regional Director,
Central Pollution Control Board
IIIrd floor Sahkar Bhawan, North T T Nagar
Bhopal - 462003
 2. Member Secretary,
Paryavas Bhavan,
North Block Sec.19, NAYA RAIPUR
Chhatisgarh - 490099.

Nalwa Steel And Power Limited

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MOEF ENVIRONMENT CLEARANCE COMPLIANCE REPORT

As on, Date 27th Nov. 2017

EC F. No. J-11011/398/2006-IA-II (I) dated: 24/01/2007.

(A) Specific condition

Cond.	Conditions	Compliance Status
1	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 th 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 level shall go beyond the prescribed standards. On-line continuous monitoring system for particulate emissions, So2 and NOx shall be provided and shall make necessary arrangements for submission of on-line real time emission data to CPCB website. Interlocking facility shall be provided between pollution control equipment and the process operation so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	<ul style="list-style-type: none"> * We are maintaining all standard parameter of state board. * On-line Opacity meters Installed in all chimney (Four no.) which is connected with ESP and Rolling Mill Stack (One no.) for continuous emissions measurement of particulate matter. One no. On-line Continuous Emission Monitoring System Installed in AFBC boiler chimney. * Industry has Installed One nos. CAAQMS and CEMS also connectivity for on-line real time emission data with CECB and CPCB server in the July 2015. * Interlocking facility provided between pollution control equipment and process.
2	Air emissions from AFBC boiler will be controlled using ESPs to limit the SPM to 50mg/Nm ³ . 72 m high stack will be provided with the boiler. Three (3) stacks of 52 m with six (6) ESPs and a common stack of 31 m with two Bag filters will be installed with DRI Kilns and Induction Furnace respectively. The gas fired reheating furnace of rolling mill will have 31 m stack. SPM emission from the Stacks will be restricted within 50 mg/Nm ³ .	Please refer Annexure I
3	In plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handling etc. shall be provided. Further, specific measures like provision of dust extraction and suppression system consisting of water sprinkling, suction hoods,	<ul style="list-style-type: none"> * Dust extraction and dust suppression system has been provided at Coal crusher, coal handling plant and Silo. * Water spray and sprinkler system/mist fogging type water

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	cyclones, bag filters, ventury scrubber etc. shall be installed at material transfer points, furnace stock house and other enclosed raw material handling areas. Centralized de dusting system i.e. collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriately designed height, as prescribed above, shall be provided for Induction/ Arc furnaces.	sprinkling system also has been provided in raw material yard & coal yard. Water spray, tanker already provide in the plant. * Three no. Road Sweeping machine provided in the plant. * Swing Hood and bag filters with 31 m height Chimney installed for the all Induction Furnaces.
4	Fugitive emissions, especially in the work zone shall be regularly monitored and records be maintained.	* We have been monitoring regular fugitive emissions in work zone as per CPCB notification and records are maintained.
5	Raw Material will be stored in covered yards. Water sprinkling arrangement should be made in the raw material stock yard to control fugitive emissions. Materials will be transported in tippers, covered trucks, covered containers, covered rail wagons etc.	* Raw material is stored above RCC floor like as Iron Ore, Coal, Dolomite and other raw material stored within the covered shed at specified designated places in Plant premises. Established three nos. of RCC flooring and covered sheds for coal storage are: Power plant Area - 3600 square meter X 1 No. DRI Kiln Area - 2800 square meter X 2 no. Materials are being transported in covered tippers, trucks and containers also tippers are transporting after covering by tarpaulin.
6	Windbreakers will be installed to restrict fugitive dust.	* Industry has made all internal Roads RCC to avoid fugitive dust and using road sweeping machine for cleaning and mist water sprinkler system installed in the raw material transfers and washery area. Three tire trees plantation around the plant boundary as wind breaker to strict the fugitive dust.

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7	<p>Total requirement of the water for the expansion project shall not exceed 1772m³/d. The raw water will be sourced from bore wells for which permission from the CGWA is available. The wastewater, after treatment, will be reused for cooling, slag quenching, gardening, green belt development and dust suppression. Treated waste Water will also be recycled in the process. The domestic wastewater generation from colony will be 26m³/day, which will be treated in the STP. Storm water will be discharged into Gerwani nala and finally to Kelo river. During Monsoon season, the raw water will be with drawn in lesser quantity and waste water will be used thereby maintaining zero-discharge during monsoon too therefore Zero discharge shall be followed strictly as proposed.</p>	<ul style="list-style-type: none"> * We ensure that water will not exceed 1772 m³ per day and total quantity of industrial and domestic effluent after treatment in STP used for Greenbelt area. * All industrial waste water colleting in cooling cum circulation pond and after settling, Waste water recycling the plant washery process, spray on coal and Road cleaning etc. * We have installed STP of capacity 350 m³ per day for treatment of sewerage water. * During the Monsoon season, raw water with drawing in lesser quantity. * Waste water colleting in cooling cum circulation pond and after settling recycle in the process, cleaning, spraying work and maintaining zero discharge.
8	<p>Char produced from the DRI Kiln and coal rejects and fine will be utilized in AFBC Boiler. The existing 1.80 Lakhs Tons of Char from the DRI Kilns, Stored in the premises of NSIL will be eventually used up in the AFBC Boiler within 900 Days from the commissioning of the expansion unit. It will not be thrown away anywhere, in any circumstances. Iron Ore Fines and DRI ESP Bag filter dust will be sold, Coal washery rejects and Fines will be stored in the premises for use in the AFBC Boiler. These will be stored properly to avoid any fugitive dust and impact to the environment.</p>	<ul style="list-style-type: none"> * Mixed fuel i.e. dolochar mixed coal using in the AFBC Boiler and balance dolochar sold to other user. * Coal washery rejects and fines using in the AFBC Boiler and extra reject coal quantity sold to other party. * Iron ore fines sold in the market, DRI ESP dust and Bag filter dust filling at own low lying identified area.
9	<p>Solid waste generation from the expansion project will be 2690 TPA of Mill Scales which will be sold in the open market or to JSPL. 3960 TPA of PGP Ash will be used in land filling and back filling of the abandoned coal mines, 24,000 TPA of Bottom Ash and 1, 20,000 TPA of Fly ash will be used for filling of low lying land, back filling of the abandoned coal mines and for fly ash brick making. 23,800 TPA of SMS Slag will be used in road making.</p>	<ul style="list-style-type: none"> * We are using all mill scales in our steel melting shop/sold to other user. * Industry has provide safe and scientific arrangement for collection, storage, transportation and disposal of all solid wastes in own low lying identified land and covering with soil. Proper garland drain made and regular monitoring.

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		* Industry has already installed fly ash brick plant of capacity 60 lacks per annum. Fly ash bricks using in own civil construction work and selling.
10	As agreed by the Company, the Coal Ash and other Solid Waste will be backfilled in the abandoned coal mines.	* Industry has provided safe and scientific arrangement for collection, storage, transportation and disposal of solid wastes in own land.
11	Report of Leachate test for SMS Slag may be submitted to the Ministry with in 15 days of issue of this letter.	* Test report already submitted with letter no. NSPL/EMD/2010/45 on date 25.06.2010.
12	Acoustic enclosures will be installed to limit the Noise levels below 85 dBA.	* We have arrange suitable enclosure arrange to reduce the noise pollution and result is below 85 dB(A) and high noise area identified, ear plug provided to employees.
13	Minimum Cycle of Concentration (COC) for the CPP will be 5.0.	* We are maintaining 5 COC and fresh water adding to maintain the required concentration.
14	The company shall strictly follow all the recommendations mentioned for the steel plants in the Charter™ on Corporate Responsibility for Environmental Protection (CREP).	* Complied.
15	As agreed, green belt shall be further developed in an additional area.	* 205070 nos. Plantations up to 27 th Nov. 2017 done by the industry.
16	The company shall harvest surface as well as rainwater from the rooftops of the buildings proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	* To improve the water table we have adopted rain water harvesting practices. We have already established Three nos. Rainwater harvesting pit made from old dead bore well and one pond of 40,000m ³ capacity for rain water harvesting.
17	The company shall obtain necessary clearances for the linked iron ore mining component before undertaking any construction at the project site or operationalizing the Iron & Steel unit.	* Industry has obtained all necessary clearances/license from concerned government departments.

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(B) General Conditions

Cond.	Conditions	Status
1	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	*Are being adhered to.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	* We will take prior approval of the Ministry of Environment and Forests for further expansion or modifications in the plant.
3.	Regular Ambient Air Quality Monitoring shall be carried out. The Monitoring station will be set up in consultation with the CECB. At least four ambient 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 the CECB. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the CPCB and CECB once in six months. The instruments used for ambient air quality monitoring shall be calibrated regularly.	* We have already installed ambient air monitoring station on all four directions of the Plant. Online micro meteorological stations installed in the plant along with CAAQMS. * Monthly monitoring report regularly submitted to CECB. * We are calibrating all ambient air quality monitoring equipment regularly.
4	Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the CECB. Regular monitoring shall be carried out for relevant parameters.	* We setup sampling location of effluent and taken sample for regular sampling also we are maintaining zero discharge and regular monitoring report submitting to CECB.
5	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	* Agreed.
6	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	* Industrial waste water collected in the cooling cum circulation pond and treated waste water utilized in Washery, Road cleaning, spray above raw material and plantation area.

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7	The overall noise levels in and around the plant area shall be limited within the prescribed standards 85 dB(A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	* All possible action taken to keep noise level within the prescribed standards 85 dB (A) in and around the plant area.
8	Proper housekeeping and adequate occupational health programs shall be taken up Regular Occupational Health Surveillance Program for the employees and contract workers shall be carried as per the Factories Act and records shall be maintained properly for at least 30-40 years.	* Industry has adopted the practice to maintain the good housekeeping and Regular Occupational Health Surveillance Program conducted in the plant. Mechanized road sweeping & spraying machines are used for the maintaining good housekeeping.
9	A separate environment management cell with full fledge laboratory facilities to carry out various management and monitoring functions shall be set up under the control of as Senior Executive.	* Industry has established environment management cell under the control of senior executive and full-fledged laboratory with qualified technical /scientific staff.
10	As proposed in the EIA/EMP Rs. 12.0 Crores earmarked for the environmental protection measures shall be used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	* The funds will not be diverted for any other purpose.
11	Regional Office of the Ministry at Bhopal/Chhattisgarh Environment Conservation Board/Central Pollution Control Board shall monitor the implementation of the stipulated conditions. Six monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.	* We are submitting report regularly to the MOEF and CECB.
12	The project Proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance latter are available with the Chhattisgarh Environment Conservation	* Complied.

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	Board/Committee and may also be seen at Website of the Ministry and Forests at http://envfor.nic.in . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's regional office at Bhopal.	
13	The 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 start of land development work.	* Agreed.

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EC F. No. J-11011/398/2006-IA-II (I), Amendment, Dated 30th Sept. 2010
Following additional conditions for compliance:-

Cond.	Conditions	Status
i	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R.No.826 (E) dated 16th November, 2009 shall be followed.	* being complied.
ii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored date on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely. RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectorial 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.	*We are submitting Compliance status of environment clearance conditions periodically to MOEF, Regional Office, Nagpur, Regional Office, CPCB Bhopal and CECB Office Raipur. * Industry has installed One no. CAAQMS.
iii	Risk and Disaster Management plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB within 3 month of issue of environment clearance letter.	* Complied. On Site Emergency plan includes Risk and Disaster Management plan.
iv	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 Offices of the MOEF by e-mail.	* We are regularly submitting Environment statement to board as per provision of Environment (Protection) Rules, 1986, as amended subsequently for the previous year ending 31st march on or before 30th September every year. This shall be placed on company website.
v	The company shall comply with all the conditions stipulated in the environmental clearance of even no. dated 24th January, 2007. In case of change in the scope of the project fresh environmental clearance shall be obtained.	* Complied.



EC F. No. J-11011/398/2006-IA-II (I), Amendment, Dated 17th Dec. 2012
Following additional conditions for compliance:-

Cond.	Conditions	Status
i	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.	* RCC road has been constructed inside the plant premises and pitching road has been constructed in side approach. * Three nos. Road sweeping machine (Dulevo make) provided for regular Road sweeping and cleaning. * 205070 nos. Plantations up to 27 th Nov. 2017 done by the industry.
ii	Adequate funds shall be allocated towards the environmental pollution control measures and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	* Adequate funds already provided for implementation for the complying the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. * These Funds will not divert for any other purpose.
iii	All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 3.3.2006 and 24.3.2006 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhopal.	* Complied.
iv	CSR schemes shall be identified based on Public Hearing issues and need based assessment in & around the villages within 10 km of the site and in constant consultation with the village Panchayats and the District Administration. As part of CSR, Prior identification of local employable youth and eventual employment in the project after imparting relevant training and retraining if necessary, shall also be undertaken.	* Complied.
v	The company shall comply with all the conditions stipulated in the environmental clearance and its amendment of even no. dated 24.1.2007 and 30.9.2010 respectively.	* Complied.

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Annexure – I

Installed Air Pollution Control Equipment's

Sr.	Name of Unit/ Process	APCD & Stack height	Design Efficiency
1	DRI Kilns	6 ESP, 52 m 3 stacks	99 %
2	Cooler Discharge of DRI Plant	2 Bag Filters, 30 m common stack	99 %
3	Product Hopper of DRI Plant	1 Bag Filter, 36 m stack	99 %
4	Induction Furnace	3 Bag Filters, 31 m common stack	99 %
5	Reheating Furnace of Rolling Mill, producer gas using as fuel.	30 m tall stack	--
6	AFBC Boiler	ESP, 74 m stack	99 %
7	PGP	Not required	--
8	Oxygen Plant	Not required	--
9.	Coal Washery & Raw Material Handling Area	Water spray (Mist Fogging type) system & water Sprinkler surrounding area	More effective

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