

Ref.: -NSPL/EMD/2018/62

Date: - 30.05.2018

**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 Environment Clearance Compliance report for the period of December 2017 to May 2018 of Nalwa Steel and Power Ltd. Raigarh, Chhattisgarh.**

Ref: 1. Environment Clearance letter no. J-11011/398/2006-IA. II (I) dated 24.01.2007, Amendment on date 30<sup>th</sup> Sept. 2010 and dated 17<sup>th</sup> Dec. 2012.  
2. Environment Clearance letter no. J-11011/1108/2007-IA-II (I), 18<sup>th</sup> December 2017.

Dear Sir,

This has reference to above mentioned subject that Environment Clearance was accorded vide letter no. J-11011/398/2006-IA-II (I) dated: 24/01/2007 and Amendment on dated 30<sup>th</sup> Sept. 2010 & 17<sup>th</sup> Dec. 2012 for existing plant and for expansion of integrated steel plant Environment Clearance vide letter no. J-11011/1108/2007-IA-II (I), 18<sup>th</sup> December 2017. We are enclosing herewith half yearly Environment Clearance compliance report for the period of December 2017 to May 2018 and soft copy of the report sending to your office through email: [apccfcentral-ngp-mef@gov.in](mailto:apccfcentral-ngp-mef@gov.in) for your kind perusal.

We trust the measures taken towards environment safeguards comply with the stipulated environment conditions.

Thanking you.

With Regards,

For, Nalwa Steel and Power Limited

*Ann - 30.5.18*  
S.S. Rathi

Whole Time Director

DIN No. 06986371

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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**NALWA STEEL AND POWER LTD.**  
**Post Box no. 7, Raigarh – 496001, Chhattisgarh**

**MOEF ENVIRONMENT CLEARANCE COMPLIANCE REPORT**

**As on, Date 30<sup>th</sup> May 2018**

**1. ENVIRONMENT CLEARANCE F. NO. J-11011/398/2006-IA-II (I) DATED, 24/01/2007.**

**(A) Specific condition**

Cond. no.	Conditions	Compliance status
1	<p>The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19<sup>th</sup> 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, So<sub>2</sub> and NO<sub>x</sub> 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.</p>	<ul style="list-style-type: none"><li>• Industry has maintained all prescribed standard parameter of state board and Ministry.</li><li>• 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.</li><li>• 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.</li><li>• Interlocking facility provided between pollution control equipment and process.</li></ul>
2	<p>Air emissions from AFBC boiler will be controlled using ESPs to limit the SPM to 50mg/Nm<sup>3</sup>. 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<sup>3</sup>.</p>	<ul style="list-style-type: none"><li>• <b>Please refer Annexure - I</b></li></ul>

3	<p>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, 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.</p>	<ul style="list-style-type: none"> <li>• Dust extraction and dust suppression system has been provided at Coal crusher, coal handling plant and Silo.</li> <li>• Water spray and sprinkler system/mist fogging type water sprinkling system also has been provided in raw material yard &amp; coal yard. Water spray, tanker already provide in the plant.</li> <li>• Suction hoods, cyclones and bag filter installed with 31 meter height Chimney in the Steel melting shop and bag filter installed in the Sponge iron cooler discharge and product hopper.</li> <li>• Three no. Road Sweeping machine provided in the plant.</li> <li>• Swing Hood and bag filters with 31 m height Chimney installed for the all Induction Furnaces.</li> </ul>
4	<p>Fugitive emissions, especially in the work zone shall be regularly monitored and records be maintained.</p>	<ul style="list-style-type: none"> <li>• Industry has been monitoring regular fugitive emissions in work zone as per CPCB notification and records are maintained.</li> </ul>
5	<p>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.</p>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Materials are being transported in covered tippers, trucks and containers also tippers are transporting after covering by tarpaulin.</li> </ul>

6	Windbreakers will be installed to restrict fugitive dust.	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
7	<p>Total requirement of the water for the expansion project shall not exceed 1772m<sup>3</sup>/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 26m<sup>3</sup>/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 withdrawn 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"> <li>• Industry has ensured that water will not exceed 1772 m<sup>3</sup> per day only for this expansion project (Existing) only.</li> <li>• Industry is using surface water and no ground water is being used.</li> <li>• Industry has installed STP of capacity 350 m<sup>3</sup> per day for treatment of sewerage water.</li> <li>• During the Monsoon season, raw water with drawing in lesser quantity.</li> <li>• Waste water is being collected in the settling cum cooling pond; after settling recycle in the process, cleaning work, spraying on the road and raw coal and maintaining zero discharge condition.</li> </ul>
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"> <li>• Mixed fuel i.e. dolochar mixed coal is being using in the AFBC Boiler and remaining dolochar sold to other user.</li> <li>• Coal washery rejects and fines using in the AFBC Boiler and extra reject coal quantity sold to other party.</li> <li>• Iron ore fines sold in the market, DRI ESP dust and Bag filter dust filling at own low lying identified area.</li> </ul>

9	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.	<ul style="list-style-type: none"> <li>• Industry has using all mill scales in our steel melting shop/sold to other user.</li> <li>• 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.</li> <li>• 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.</li> </ul>
10	As agreed by the Company, the Coal Ash and other Solid Waste will be backfilled in the abandoned coal mines.	<ul style="list-style-type: none"> <li>• Industry has provided safe and scientific arrangement for collection, storage, transportation and disposal of solid wastes in own land at low lying area under guidance of <b>Indian School of Mines Dhanbad.</b></li> </ul>
11	Report of Leachate test for SMS Slag may be submitted to the Ministry with in 15 days of issue of this letter.	<ul style="list-style-type: none"> <li>• Test report is already submitted to the ministry vide letter no. NSPL/EMD/2010/45 on date 25.06.2010.</li> </ul>
12	Acoustic enclosures will be installed to limit the Noise levels below 85 dBA.	<ul style="list-style-type: none"> <li>• Industry has 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.</li> </ul>
13	Minimum Cycle of Concentration (COC) for the CPP will be 5.0.	<ul style="list-style-type: none"> <li>• We are maintaining 5 COC and fresh water adding to maintain the required concentration.</li> </ul>
14	The company shall strictly follow all the recommendations mentioned for the steel plants in the Charter on Corporate Responsibility for Environmental Protection (CREP).	<ul style="list-style-type: none"> <li>• Complied.</li> </ul>

15	As agreed, green belt shall be further developed in an additional area.	<ul style="list-style-type: none"> <li>Industry has planted 205070 trees up to 31st March 2018.</li> </ul>
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.	<ul style="list-style-type: none"> <li>Industry has taken water conservation measures also made three nos. recharging pit (dead bore hole) and two no. rain water harvesting pond of capacity 14000 m<sup>3</sup> &amp; 4500 m<sup>3</sup> where runoff water is collected.</li> <li>Now planning to make 03 nos. recharging pit for collecting rain water in the 2018-19.</li> </ul>
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.	<ul style="list-style-type: none"> <li>Industry has obtained all necessary clearances/license from concerned government departments.</li> </ul>

**(B) General Conditions**

Cond. no.	Conditions	Compliance status
1	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	<ul style="list-style-type: none"> <li>Are being adhered to.</li> </ul>
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	<ul style="list-style-type: none"> <li>Industry will take prior approval/permission from of the Ministry of Environment and Forests for further expansion or modifications in the plant.</li> </ul>
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 <sub>2</sub> and NO <sub>x</sub> are anticipated in	<ul style="list-style-type: none"> <li>Industry has installed ambient air monitoring station at all four directions of the Plant. Online CAAQMS. Along with meteorological stations installed in the plant colony area.</li> <li>Monthly monitoring report</li> </ul>

	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.	regularly submitted to CECB. <ul style="list-style-type: none"> <li>• Industry has calibrating ambient air quality monitoring equipment by third party regularly.</li> </ul>
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.	<ul style="list-style-type: none"> <li>• Industry has setup sampling locations and taken effluent sample for analysis also Industry has maintained zero discharge condition. Monitoring report regular submitted to CECB.</li> </ul>
5	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	<ul style="list-style-type: none"> <li>• Agreed.</li> </ul>
6	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
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.	<ul style="list-style-type: none"> <li>• All possible action taken to keep noise level within the prescribed standards 85 dB (A) in and around the plant area.</li> </ul>
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.	<ul style="list-style-type: none"> <li>• Industry has adopted the practice to maintain the good housekeeping and Regular Occupational Health Surveillance Program conducted in the plant. Mechanized road sweeping &amp; spraying machines are used for the maintaining good housekeeping.</li> </ul>

9	A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of as Senior Executive.	<ul style="list-style-type: none"> <li>• Industry has established environment management cell under the supervision of senior executive and full-fledged laboratory with qualified technical /scientific staff.</li> </ul>
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.	<ul style="list-style-type: none"> <li>• The funds will not be diverted for any other purpose.</li> </ul>
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.	<ul style="list-style-type: none"> <li>• Industry is submitting regular half yearly compliance report to the MOEF and CECB.</li> </ul>
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 Board/Committee and may also be seen at Website of the Ministry and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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.	* Complied.
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.	<ul style="list-style-type: none"> <li>• Agreed.</li> </ul>



**2. ENVIRONMENT CLEARANCE F. NO. J-11011/398/2006-IA-II (I), AMENDMENT,**

**DATED 30<sup>TH</sup> SEPT. 2010**

**As on, Date 30<sup>th</sup> May 2018**

**Following additional conditions for compliance:-**

<b>Cond.no.</b>	<b>Conditions</b>	<b>Compliance status</b>
i	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R.No.826 (E) dated 16 <sup>th</sup> November, 2009 shall be followed.	<ul style="list-style-type: none"><li>• Being complied.</li></ul>
ii	<p>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.</p> <p>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<sub>2</sub>, NO<sub>x</sub> (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.</p>	<ul style="list-style-type: none"><li>• Industry has submitting regular half yearly Compliance status of environment clearance conditions to MOEF, Regional Office, Nagpur, Regional Office, CPCB Bhopal and CECB Office Raipur.</li><li>• Industry has installed ambient air monitoring station at all four directions of the Plant. Online CAAQMS. Along with meteorological stations installed in the plant colony area.</li></ul>
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.	<ul style="list-style-type: none"><li>• Complied.</li></ul>
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.	<p>* Industry has 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.</p> <p>Environment statement is uploaded in the company website.</p>

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.
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**3. ENVIRONMENT CLEARANCE F. NO. J-11011/398/2006-IA-II (I) , AMENDMENT, DATED 17TH DEC. 2012**

**As on, Date 30<sup>th</sup> May 2018**

**Following additional conditions for compliance:-**

Cond. no.	Conditions	Compliance 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.	<ul style="list-style-type: none"> <li>• RCC road has been constructed inside the plant premises and pitching road has been constructed in side approach.</li> <li>• Three nos. Road sweeping machine (Dulevo make) provided for regular Road sweeping and cleaning.</li> <li>• Industry has planted 205070 trees up to 31st March 2018.</li> </ul>
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.	<ul style="list-style-type: none"> <li>• 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.</li> <li>• These Funds will not be diverted for any other purpose.</li> </ul>
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.	<ul style="list-style-type: none"> <li>• Complied.</li> </ul>

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.	<ul style="list-style-type: none"> <li>• Complied.</li> </ul>
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.	<ul style="list-style-type: none"> <li>• Complied.</li> </ul>

### Annexure – I

#### Installed Air Pollution Control Equipment's

Sr. no.	Name of Unit/ Process	APCD & Stack height
1	DRI Kilns	6 ESP, 52 m 3 stacks
2	Cooler Discharge of DRI Plant	2 Bag Filters, 30 m common stack
3	Product Hopper of DRI Plant	1 Bag Filter, 36 m stack
4	Induction Furnace	3 Bag Filters, 31 m common stack
5	Reheating Furnace of Rolling Mill, producer gas using as fuel.	30 m tall stack
6	AFBC Boiler	ESP, 74 m stack
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

# COMPLIANCE STATUS OF ENVIRONMENT CLEARANCE

F. NO. J-11011/1108/2007-IA-II (I), 18<sup>th</sup> December 2017

## MOEF ENVIRONMENT CLEARANCE COMPLIANCE REPORT

As on, Date 30<sup>th</sup> May 2018

### A. Specific conditions :

Cond. no.	Conditions	Compliance status							
i.	The proposed expansion shall be carried as per the revised layout submitted to the Ministry vide NSPL's Letter No. NSPL/EMD/2017/136 dated 17 <sup>th</sup> August 2017.	<ul style="list-style-type: none"><li>• Agreed.</li></ul>							
ii.	The area proposed in the east of Taraimal village shall not be used for establishment of any plant facilities except for the plantation with native tree species as proposed in the revised layout plan.	<ul style="list-style-type: none"><li>• As per proposal in the east of Taraimal village, thick green belt (plantation) will be developed with native tree species and others facility as in the revised layout plan.</li></ul>							
iii.	The present environmental clearance is exclusive of the proposed 135 MW CFBC based Thermal Power Plant as committed by project proponent.	<ul style="list-style-type: none"><li>• Agreed.</li></ul>							
iv.	The Project Proponent shall stop the operations of the existing 16 MW AFBC based thermal Power Plant before commencement of expansion of steel plant from 0.25 MTPA to 0.50 MTPA as agreed by the PP for control of Air Pollution.	<ul style="list-style-type: none"><li>• Agreed.</li></ul>							
v.	In view of the traffic congestion on the road connecting from Raigarh to Nalwa Steel Plant, the expansion shall be carried out subject to the widening of the road/extension of the railway line as per the following conditions:	<ul style="list-style-type: none"><li>• Agreed.</li></ul>							
	<table border="1"><thead><tr><th>Phase</th><th>Expansion w.r.t steel production</th><th>Subject to</th><th>Remarks</th></tr></thead><tbody><tr><td>1</td><td>From 0.16 TPA to 0.25 MTPA</td><td>Existing road width</td><td>By using the billets produced in the plant premises.</td></tr></tbody></table>	Phase	Expansion w.r.t steel production	Subject to	Remarks	1	From 0.16 TPA to 0.25 MTPA	Existing road width	By using the billets produced in the plant premises.
Phase	Expansion w.r.t steel production	Subject to	Remarks						
1	From 0.16 TPA to 0.25 MTPA	Existing road width	By using the billets produced in the plant premises.						

	<table border="1"> <tr> <td data-bbox="289 180 396 499">2</td> <td data-bbox="401 180 565 499">From 0.25 MTPA to 0.50 MTPA</td> <td data-bbox="570 180 734 499">Widening of the road connection from Raigarh to Nalwa from 2-line to 4-line.</td> <td data-bbox="738 180 966 499">Production shall be commenced only after completion of widening of road</td> </tr> </table>	2	From 0.25 MTPA to 0.50 MTPA	Widening of the road connection from Raigarh to Nalwa from 2-line to 4-line.	Production shall be commenced only after completion of widening of road	<ul style="list-style-type: none"> <li>• Agreed and no any action has been taken for Phase 2.</li> </ul>
2	From 0.25 MTPA to 0.50 MTPA	Widening of the road connection from Raigarh to Nalwa from 2-line to 4-line.	Production shall be commenced only after completion of widening of road			
	<table border="1"> <tr> <td data-bbox="289 588 396 882">3</td> <td data-bbox="401 588 565 882">From 0.50 MTPA to 1.03 MTPA</td> <td data-bbox="570 588 734 882">Extension of the railway line /siding near the plant premises</td> <td data-bbox="738 588 966 882">Production shall be commenced only after completion of commencement of railway siding.</td> </tr> </table>	3	From 0.50 MTPA to 1.03 MTPA	Extension of the railway line /siding near the plant premises	Production shall be commenced only after completion of commencement of railway siding.	<ul style="list-style-type: none"> <li>• Agreed and no any action has been taken for Phase 3.</li> </ul>
3	From 0.50 MTPA to 1.03 MTPA	Extension of the railway line /siding near the plant premises	Production shall be commenced only after completion of commencement of railway siding.			
vi.	<p>No fly ash shall be dumped in the premises. The PP shall submit action plan for 100% utilization of fly ash, dolochar and slag within 3 months from the date of issue of EC to the Ministry.</p>	<ul style="list-style-type: none"> <li>• Industry has ensured that Fly ash shall not be dumped within the premises. Industry has taken action plan for 100% utilization of fly ash, dolochar and slag and submitted to MOEF &amp; CC. Action Plan submitted to the Ministry by vide letter no. NSPL/EMD/2018/45, dated 20.04.2018.</li> </ul>				
vii.	<p>All the raw materials shall be stored in covered sheds with a provision to prevent any inflow of runoff into the stock yard.</p>	<ul style="list-style-type: none"> <li>• Raw material will be stored in covered sheds and make provision to prevent any inflow of runoff into the stock yard. Presently stored in covered sheds.</li> </ul>				

viii.	<p>The proposed plantation adjacent to the Tariamal Village (east, i.e., the area bounded within the plant boundary and the coordinates mentioned in the following table) and the proposed strengthening of the plantation in the existing premises in shall be completed within one year from the date of issue of EC and remaining proposed plantation inter alia include boundary plantation shall be completed in concurrence with the expansion operation of 0.50 MTPA.</p> <table border="1" data-bbox="298 554 959 1163"> <thead> <tr> <th>Coordinate ID</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr><td>A</td><td>22° 01'36.71"N</td><td>83° 22'46.67"E</td></tr> <tr><td>B</td><td>22° 01'48.17"N</td><td>83° 22'46.38"E</td></tr> <tr><td>C</td><td>22° 01'47.99"N</td><td>83° 22'40.62"E</td></tr> <tr><td>D</td><td>22° 01'56.77"N</td><td>83° 22'37.66"E</td></tr> <tr><td>E</td><td>22° 02'06.59"N</td><td>83° 22'33.38"E</td></tr> <tr><td>F</td><td>22° 01'06.59"N</td><td>83° 22'33.10"E</td></tr> <tr><td>G</td><td>22°02'07.15"N</td><td>83° 22'50.33"E</td></tr> <tr><td>H</td><td>22°02'02.27"N</td><td>83° 22'51.98"E</td></tr> <tr><td>I</td><td>22° 01'57.49"N</td><td>83°23'07.44"E</td></tr> <tr><td>J</td><td>22° 01'52.37"N</td><td>83°23'07.54"E</td></tr> <tr><td>K</td><td>22° 01'51.83"N</td><td>83° 23'0.12"E</td></tr> <tr><td>L</td><td>22° 01'49.98"N</td><td>83° 22'58.72"E</td></tr> <tr><td>M</td><td>22° 01'45.36"N</td><td>83° 22'58.93"E</td></tr> <tr><td>N</td><td>22° 01'45.23"N</td><td>83° 22'53.00"E</td></tr> </tbody> </table>	Coordinate ID	Latitude	Longitude	A	22° 01'36.71"N	83° 22'46.67"E	B	22° 01'48.17"N	83° 22'46.38"E	C	22° 01'47.99"N	83° 22'40.62"E	D	22° 01'56.77"N	83° 22'37.66"E	E	22° 02'06.59"N	83° 22'33.38"E	F	22° 01'06.59"N	83° 22'33.10"E	G	22°02'07.15"N	83° 22'50.33"E	H	22°02'02.27"N	83° 22'51.98"E	I	22° 01'57.49"N	83°23'07.44"E	J	22° 01'52.37"N	83°23'07.54"E	K	22° 01'51.83"N	83° 23'0.12"E	L	22° 01'49.98"N	83° 22'58.72"E	M	22° 01'45.36"N	83° 22'58.93"E	N	22° 01'45.23"N	83° 22'53.00"E	<ul style="list-style-type: none"> <li>• Agreed for the proposed plantation adjacent to the Tariamal Village (east, i.e., the area bounded within the plant boundary and the coordinates mentioned in the table)</li> <li>• Action taken for the strengthening of the plantation in the existing premises will be completed in 2018.</li> </ul>
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ix.	<p>Filter bag house shall be designed for 150% of the air flow rate. The filter bag shall be PTFE dipped PPS type.</p>	<ul style="list-style-type: none"> <li>• Filter bag house is designed for 150 % of the air flow rate &amp; PTFE dipped PPS type.</li> </ul>																																													
x.	<p>The PP shall adhere to the corporate environmental policy and system of the reporting of any infringements/non-compliance of EC conditions at least once in a year to the Board of Directors and the copy of the board resolution shall be submitted to the MoEFCC as a part of six-monthly report.</p>	<ul style="list-style-type: none"> <li>• Corporate environmental policy and system of the reporting of any infringements/non-compliance of EC conditions at least once in a year to the Board of Directors meeting is implemented and copy of the board resolution is enclosed. <b>As Annexure II.</b></li> </ul>																																													
xi.	<p>The make-up water requirement for the expansion project (18901m<sup>3</sup>/day) shall be obtained from Mirouni Barrage across river Mahanadi only. No ground water shall be extracted.</p>	<ul style="list-style-type: none"> <li>• Presently industry has withdrawn water from Banjari nala, 3.46 MCM water allotments from Water Resource Department Govt. of Chhattisgarh.</li> </ul>																																													

		<ul style="list-style-type: none"> <li>• For further expansion project requirement of make-up water will be used from Mirouni Barrage across river Mahanadi.</li> <li>• Industry will not be extracted ground water for expansion project.</li> </ul>
xii.	The proposed fund under Enterprise Social Commitment (ESC) shall be utilized as capital expenditure in project mode. The project shall be completed in concurrence with the implementation of the expansion and estimate on the basis of Scheduled Rates.	<ul style="list-style-type: none"> <li>• Agreed.</li> </ul>
xiii.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.	<ul style="list-style-type: none"> <li>• All recommendations of Corporate Responsibility for Environment Protection (CREP) guideline for the Steel plants will be implemented.</li> </ul>
xiv.	The project proponent shall provide for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	<ul style="list-style-type: none"> <li>• Industry will provide Solar light system for all common areas, street lights, parking around project area in phase manner and maintained regularly.</li> </ul>
xv.	Waste water from the coke oven plant shall not be used for quenching.	<ul style="list-style-type: none"> <li>• Waste water of coke oven plant will not be used for quenching.</li> </ul>
xvi.	Emergency Response plan (ERP) based on Hazard Identification and Risk Assessment (HIRA) shall be prepared and submitted with 3 month from the date of issue of Environmental Clearance and same shall be implemented strictly.	<ul style="list-style-type: none"> <li>• Industry has prepared Emergency Response plan (ERP) based on Hazard Identification and Risk Assessment (HIRA) and submitted to Ministry by vide letter no. NSPL/EMD/2018/46, dated 20.04.2018.</li> </ul>
xvii.	Mechanical Vacuum Cleaners shall be deployed for cleaning of internal roads for prevention of fugitive dust. Dust extraction and suppression system shall be provided at all the transfer points, raw material handling plant and sponge iron plant. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.	<ul style="list-style-type: none"> <li>• Industry has provided for existing plant mechanical vacuum cleaner (3 Nos, DULEVO) sweeping machine for cleaning of internal roads for prevention of fugitive dust.</li> <li>• Industry will provide dust extraction and suppression system at all the transfer points, raw material handling plant and sponge iron plant.</li> </ul>

		<ul style="list-style-type: none"> <li>• Industry will provide Water sprinkler/ mist fogging system at raw material handling, Ash silo, Product Hopper area to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.</li> </ul>
xviii.	The project proponent shall provide Air Pollution Control Devices (APCD) at stacks connected to DRI Plant.EAF, CPP, Coal Washery, WHRB, DRI Kiln De-dusting, Sinter Plant, Blast Furnace, Coke Oven Plant, and Structural/Rolling Mill and installed with continuous stack monitoring (24x7) devices to monitor air emissions.	<ul style="list-style-type: none"> <li>• Industry will provide Air Pollution Control Devices (APCD) at all stacks connected to DRI Plant, EAF, WHRB, DRI Kiln De-dusting, Sinter Plant, Blast Furnace, Coke Oven Plant, and Structural/Rolling Mill and installed with continuous stack monitoring system.</li> </ul>
xix.	The PP shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	<ul style="list-style-type: none"> <li>• Industry will prepare plan for GHG emissions inventory &amp; program for reduction of GHG including carbon sequestration and plantation.</li> </ul>
xx.	The PP shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide personal protection Equipment (PPE) as per the norms of Factory Act.	<ul style="list-style-type: none"> <li>• Industry will carry out heat stress analysis for the workmen who work in the high temperature work zone and personal protection Equipment (PPE) is being provided as per the norms of Factory Act.</li> </ul>
xxi.	All DRI kilns shall have Waste Heat Recovery Boiler and shall meet the emission standards as notified under Environment (P) Act, 1986.	<ul style="list-style-type: none"> <li>• Industry has ensured that DRI kilns Waste Heat Recovery Boiler and emission standards meet as notified under Environment (P) Act, 1986 as existing practice.</li> </ul>
xxii.	The project proponent shall take water conservation measures. Rain water harvesting system shall be adopted and practice for ground water recharge followed based on hydro-geological conditions at the site.	<ul style="list-style-type: none"> <li>• Industry has taken water conservation measures for existing plant and made three nos. recharging pit (dead bore hole) and two no. rain water harvesting pond of capacity 14000 m<sup>3</sup> &amp; 4500 m<sup>3</sup> where runoff water is collected.</li> <li>• Industry will make plan for proposed expansion area to ground water recharge based on the hydro-geological conditions at the site.</li> </ul>



xxiii.	All the char generated shall be further utilized for power generation. Blast furnace (BF) slag granulation system shall be provided for further utilization. BF Flue dust and gas cleaning plant sludge shall be re-cycled/re-used. The dust collected from the APCD in the raw material handling section shall be reused/ recycled.	<ul style="list-style-type: none"> <li>• Agreed, will be implemented during the expansion.</li> </ul>
xxiv.	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.	<ul style="list-style-type: none"> <li>• Agreed, will be implemented during the expansion. For present expansion existing facility is sufficient.</li> </ul>

#### **B. GENERAL CONDITIONS:**

<b>Cond. no.</b>	<b>Conditions</b>	<b>Compliance status</b>
i.	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Pollution Control Board and the State Government.	<ul style="list-style-type: none"> <li>• Agreed</li> </ul>
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 (MoEF&CC).	<ul style="list-style-type: none"> <li>• Agreed and Industry will take prior approval from MoEF &amp; CC, If any expansion or modifications.</li> </ul>
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 stacks emission shall be regularly submitted to this Ministry including its Regional Office at Nagpur and the SPCB/CPCB once in six months.	<ul style="list-style-type: none"> <li>• Four ambient air quality monitoring stations established consultation with CECB. Results of same are being submitted to CECB.</li> <li>• Data of ambient air quality and stacks emission will be regularly submitted to Regional Office Nagpur and the SPCB/CPCB in every six months.</li> <li>• Presently regular report submitting for existing plant.</li> </ul>

iv.	<p>The Project Proponent shall conform to:</p> <p>a. The emission standards specified vide S.O. 3305 (E) dated 7th December 2015 for the Thermal Power Plant.</p> <p>b. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled as per vide G.S.R. 414 (E) dated 30th May 2008.</p> <p>c. The Standards issued by the Ministry vide G.S.R 277 (E) dated 31st March, 2012.</p> <p>d. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16th November 2009.</p> <p>e. Proper handling, storage, utilization and disposal of all the hazardous and other waste shall be carried as per the provisions of Hazardous &amp; Other waste (Management &amp; Trans boundary Movement) Rules, 2016.</p> <p>f. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendments from time to time. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding.</p> <p>g. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75dB (A) during day time and 70dB (a) during night time.</p>	<ul style="list-style-type: none"> <li>• In Existing plant maintain standard of Stack emission. Thermal power plant is excluded in the Environment clearance condition.</li> <li>• Gaseous emission levels including secondary fugitive emission from all sources are controlled and will be controlled for expansion units.</li> <li>• Prescribe standards will be complied as per Ministry vide G.S.R 277 (E) dated 31st March, 2012.</li> <li>• Agreed and complied for existing plant.</li> <li>• Agreed and complied for existing plant as per the provisions of Hazardous &amp; Other waste (Management &amp; Trans boundary Movement) Rules, 2016.</li> <li>• Fly ash will not generate due the thermal power plant is excluded in the Environment clearance condition.</li> <li>• For existing plant fly ash is used properly as per Fly Ash Notification, 1999. Industry has already established fly ash brick plant of capacity 60 Lakh/ Annum, fly ash bricks are being used in own civil construction work.</li> <li>• An ambient noise level is regularly being monitored during day time &amp; night time. The ambient noise levels conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime.) and 70 dBA (nighttime).</li> </ul>
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	h. The ETP for coke oven effluents should be designed to meet notified standards prescribed in E(P)A, 1986 especially for the cyanide and phenol.	<ul style="list-style-type: none"> <li>The ETP for coke oven effluents will be designed to meet notified standards prescribed in E(P)A, 1986, especially for the cyanide and phenol during the project.</li> </ul>
v.	Occupation health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<ul style="list-style-type: none"> <li>Industry have Occupational Health Center is being conduct regular health surveillance of all employees of the plant and records is being maintained as per the Factories Act.</li> </ul>
vi.	The projects proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	<ul style="list-style-type: none"> <li>Agreed for comply all the environmental protection measures and as recommended in EIA / EMP report and is under implementation.</li> </ul>
vii.	An amount of Rs. 125.0 crores towards Capital cost and Rs 15.0 crores per annum for recurring cost for environment pollution control measures shall be earmarked. The funds so provided shall not be diverted for any other purpose.	<ul style="list-style-type: none"> <li>The funds will not be diverted for any other purpose.</li> </ul>
viii.	The project proponent shall:	
	a. Send a copy of clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;	<ul style="list-style-type: none"> <li>Complied and provided.</li> </ul>
	b. Put on the clearance letter on the web site of the company for access to the public.	<ul style="list-style-type: none"> <li>Complied and uploaded on company web.</li> </ul>
	c. Inform the public through advertisement within seven days from the date if issue of the clearance letter, at least in two local newspapers that area widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter and available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	<ul style="list-style-type: none"> <li>Complied.</li> </ul>

<p>d. Upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;</p>	<ul style="list-style-type: none"> <li>• Environment clearance conditions compliance report submitted regularly and is being uploaded &amp; updated with all the monitoring results periodically on Company's website.</li> </ul>
<p>e. Monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stacks emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company;</p>	<ul style="list-style-type: none"> <li>• CAAQMS and CEMS is installed in the plant and connected with CECB and CPCB also electronic display board set up in the plant main gate to display for public and online monitoring data regular upload on the company website.</li> </ul>
<p>f. 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 MoEF&amp;CC, the respective Zonal Office of CPCB and the SPCB;</p>	<ul style="list-style-type: none"> <li>• Complied regularly.</li> </ul>
<p>g. Submit the environmental statement for each financial year in Form-V to the concerned State Pollution control Board as pre scribed under the Environment (Protection) Rules,1986, as amended subsequently and put on the website of the company;</p>	<ul style="list-style-type: none"> <li>• Complied regularly.</li> </ul>
<p>h. 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.</p>	<ul style="list-style-type: none"> <li>• Agreed.</li> </ul>

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*Amer. 30.5.18*

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Annexure - I



CERTIFIED TRUE COPY OF THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF NALWA STEEL & POWER LIMITED IN ITS MEETING HELD ON MAY 29, 2018

**NOTING OF THE COMPLIANCE STATUS OF THE TERMS & CONDITIONS OF ENVIRONMENT CLEARANCE**

Mr. Manik Lal Sahu, Head – OHSE, informed the Board that Ministry of Environment, Forest and Climate change, Government of India vide their letter no. F. No. 1A-J-11011/1108/2007-IA-II(I) dated December 18, 2017 ("EC Letter") granted environment clearance for the expansion of integrated steel plant at village Taraimal, Tehsil: Ghargoda, Dist. Raigarh, Chhattisgarh on the terms and conditions of the EC letter.

EC letter stipulates that the Company shall adhere to the Corporate Environment Policy of the Company and system of the reporting of infringements/non-compliance of the EC conditions atleast once in a year to the Board of Directors and copy of the Board resolution shall be submitted to the MoEFCC as a part of six-monthly report.

He then placed before the Board the status of the Compliances of the terms & conditions of the EC Letter as on March 31, 2018.

The Board took note of the same and passed the following resolution:

**"RESOVLED THAT** the Board do hereby take note of the compliance status of the terms & conditions of the letter no. F. No. 1A-J-11011/1108/2007-IA-II(I) dated December 18, 2017 ("EC Letter") issued by Ministry of Environment, Forest and Climate change, Government of India for environment clearance of the expansion of integrated steel plant at village Taraimal, Tehsil: Ghargoda, Dist. Raigarh, Chhattisgarh."

For Nalwa Steel & Power Limited

Certified to be true/-

  
Sardar Singh Rathi  
Wholetime Director



Issued on: May 29, 2018  
Place: Raigarh

**Nalwa Steel And Power Limited**

Corporate Identity number (CIN): U74899DL1989PLC035212P.B. No.7, Ghargoda Road, Taraimal, Raigarh-496001, Chhattisgarh  
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