

F. No. IA-J-11011/110/2018- IA-II(I)

Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

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Dated: 25th May, 2018

To

The Director
M/s Jindal United Steel Limited,
O.P.Jindal Marg, Hisar,
Haryana- 125005.

Subject: 1.6 MTPA Hot Strip Mill along with plate finishing facilities – Transfer of Environmental Clearance from M/s Jindal Stainless Limited to M/s Jindal United Steel Limited located in Kalinga Nagar Industrial Complex, Duburi, Dist.Jajpur, Odisha regarding.

Sir,

This has reference to the online proposal no. **IA/OR/IND/20365/2007**, dated **21st April, 2017** and your communications dated 27th December 2017 and submission of requisite documents vide letter dated 24th March 2017 for transfer of Environmental Clearance of 0.425 MTPA Coke Oven Battery (Recovery type) from Integrated Stainless Steel Plant of M/s Jindal Stainless Limited (JSL) located in Kalinga Nagar Industrial Complex, Duburi, Dist. Jajpur, Odisha to M/s Jindal Coke Limited (JCL).

2.0 M/s Jindal Stainless Ltd., was granted Environmental Clearance for Integrated Stainless Steel Plant (1.6 MTPA) at Kalinga Nagar Industrial Complex, Duburi, Dist.Jajpur, Odisha vide letter No J-11011/155/2005-IA.II(I) dated 5th August 2005.

3.0 In addition to Integrated Stainless Steel Plant, Environmental Clearance for 4x125 MW captive Power Project at Kalinga Nagar Industrial Complex, Daburi, Dist.Jajpur, was granted vide letter No. J-13011/5/2006-IA.II(I) dated 30th November, 2006.

4.0 Further, M/s Jindal Stainless Ltd was granted Environmental Clearance for modification-cum-expansion of the Integrated Stainless Steel Ltd vide letter no. J-11011/281/2007-IA.II(I) dated 1st November 2007 for modification of granted facilities and addition of new facilities as below:

S.No.	Unit	Existing /granted facility	Modification	New facility	Configuration accorded in EC
1	Sinter Plant	-	-	1x180 m ²	1x180 m ²
2	Coke Oven Battery (Recovery)	-	-	2x0.425	2x0.425

	Type)				
3	Blast Furnace and associated facilities	2x750 m ³ + 2x1500 TPD	1x1600 m ³ + 2x1800 TPD	-	1x1600 m ³ + 2x1800 TPD
4	SAF (Fe-Mn Plant)	2x1.65 MVA	2 x27.6 MVA	-	2 x27.6 MVA
5	SAF (Si-Mn Plant)	2x1.65 MVA	2 x27.6 MVA	-	2 x27.6 MVA
6	gas based Power Plant	1x12 MW, 3x13MW, 2x13 MW WHRB for the use of these gases from Ferro Alloy Plants	1x12MW BF gas based Power Plant	-	1x12MW BF gas based Power Plant

5.0 The status of implementation of the project at Kalinga Nagar Industrial Complex, as per Environmental Clearances accorded to M/s JSL, for Integrated Stainless Steel Plant vide dated 5th August 2005, for Captive Power Project vide dated 30th November 2006 and for Modification-cum-Expansion vide dated 1st November 2007, as given below :

Sl. No	Facility	Capacities as per EC	Existing Installation
1	Sinter Plant	1 X 180 m ²	-
2	Coke Oven battery (Recovery Type)	2 X 0.425 MTPA	0.425 MTPA
3	Blast Furnace PCM SGP	1 X 1600 m ³ 2 X 1800 TPD 1 X 401200 TPY	-
4	Stainless Steel Making Unit	1.6 MTPA	0.8 MTPA
5	Ferro Alloys Plant (Semi Closed SAF)	180 TPH Chromite Briquetting Plant 6 X 60 MVA Fe-Cr Plant 2 X 27.6 MVA Fe-Mn Plant 4 X 27.6 MVA Si-Mn Plant	180 TPH Chromite Briquetting Plant 2 X 60 MVA Fe-Cr Plant 1 X 27.6 MVA Fe-Mn Plant 2 X 27.6 MVA Si-Mn Plant
6	Secondary Refining	2 X 120 T LRF	120 T LRF
7	CCP Plant	2 X 1 Strand Slab Caster	1 X 1 Strand Slab Caster
8	Hot Strip Mill	1.6 MTPA	1.6 MTPA
9	Cold Rolling Mill	0.8 MTPA	0.8 MTPA
10	Power Plant -WHRB	1 X 12 MW from BF Gas 5 X 13 MW From Ferro Alloys Plant	1 X 13 MW From Ferro Alloys Plant
11	Lime Plant	5 X 300 TPH Lime Kiln	-
12	Oxygen Plant	2 X 425 TPD Oxygen Plant	1 x 425 TPD Oxygen Plant
13	Raw Material preparation Plant	Matching the Production Facilities	Installed

14	Coal Based CPP	4 X 125 MW Coal Based CPP	2 X 125 MW Coal Based CPP
15	AFBC Boiler	--	1 X 50 TPH AFBC Boiler

6.0 M/s Jindal Stainless Ltd., has proposed to transfer the existing Coke Oven battery (Recovery type) of capacity 0.425 MTPA to M/s Jindal Coke Ltd and **Hot Strip Mill** of capacity 1.6 MTPA along with plate finishing facilities to M/s Jindal United Steel Ltd.

7.0 It was reported that the 1.6 MTPA Hot Strip Mill Unit along with plate finishing facilities is located in 154.66 ha land within the premises of the Integrated Stainless Steel Plant of M/s JSL within the bounded coordinates as given below:

SL. NO.	POINT ID	LONGITUDE	LATITUDE	SL. NO.	POINT ID	LONGITUDE	LATITUDE
1	JU-1	86°02'21.098"	20°56'24.979"	25	JU-25	86°03'17.591"	20°57'33.777"
2	JU-2	86°02'01.788"	20°57'04.182"	26	JU-26	86°03'23.363"	20°57'23.609"
3	JU-3	86°02'18.093"	20°57'11.088"	27	JU-27	86°03'18.130"	20°57'20.973"
4	JU-4	86°02'23.066"	20°57'03.972"	28	JU-28	86°03'17.799"	20°57'21.203"
5	JU-5	86°02'38.571"	20°57'11.886"	29	JU-29	86°03'16.949"	20°57'20.786"
6	JU-6	86°02'39.254"	20°57'10.693"	30	JU-30	86°03'17.116"	20°57'20.477"
7	JU-7	86°02'52.493"	20°57'17.635"	31	JU-31	86°03'05.063"	20°57'14.085"
8	JU-8	86°02'50.438"	20°57'20.945"	32	JU-32	86°03'05.666"	20°57'12.877"
9	JU-9	86°02'55.476"	20°57'23.649"	33	JU-33	86°03'04.009"	20°57'11.996"
10	JU-10	86°02'58.649"	20°57'18.834"	34	JU-34	86°03'02.506"	20°57'14.251"
11	JU-11	86°03'04.009"	20°57'21.837"	35	JU-35	86°03'02.835"	20°57'14.408"
12	JU-12	86°03'04.325"	20°57'21.332"	36	JU-36	86°03'00.784"	20°57'18.101"
13	JU-13	86°03'08.412"	20°57'24.074"	37	JU-37	86°02'40.056"	20°57'07.357"
14	JU-14	86°03'07.698"	20°57'25.409"	38	JU-38	86°02'43.354"	20°57'01.627"
15	JU-15	86°03'08.711"	20°57'25.920"	39	JU-39	86°02'40.823"	20°57'00.116"
16	JU-16	86°03'09.562"	20°57'24.769"	40	JU-40	86°02'41.857"	20°56'58.883"
17	JU-17	86°03'09.853"	20°57'24.994"	41	JU-41	86°02'44.370"	20°57'00.388"
18	JU-18	86°03'07.900"	20°57'28.149"	42	JU-42	86°02'55.069"	20°56'42.832"
19	JU-19	86°03'08.437"	20°57'28.484"	43	JU-43	86°03'12.763"	20°57'07.015"
20	JU-20	86°03'08.320"	20°57'28.827"	44	JU-44	86°03'22.058"	20°57'11.989"
21	JU-21	86°03'09.782"	20°57'29.567"	45	JU-45	86°03'23.280"	20°57'09.999"
22	JU-22	86°03'10.013"	20°57'29.202"	46	JU-46	86°03'20.996"	20°57'09.040"
23	JU-23	86°03'10.515"	20°57'29.442"	47	JU-47	86°03'20.109"	20°57'08.088"
24	JU-24	86°03'10.398"	20°57'29.915"	48	JU-48	86°03'14.036"	20°57'04.978"

8.0 The raw material, i.e., crude steel slab requirement for M/s Jindal United Steel Ltd will be 1.6 MTPA is 16,00,000 TPA.

9.0 The water requirement for the coke oven plant will be 1200 m³/day will be drawn within the 27960 KLD allotted to M/s Jindal Stainless Ltd. The power requirement will be 40 MWH.

10.0 The capital cost of the 1.6 MTPA Hot Strip Mill was Rs. 2413 Cr and the Rs. 28 Cr was earmarked for the Environmental Protection measures as a capital expenditure.

11.0 The crude steel slab received from SMS of M/s JSL are further heated in reheat furnaces of Hot Strip Mill and rolled in hot mills to get flat product

in the form of coil and finished Plates which partly sent for final dispatch as per customer requirement and partly sent to CRM of JSL for making cold rolled products. The Mill Scale generated from HSM is being dumped within the plant premises for future use. Used Oil & Waste Oil are sent to authorized Recyclers as per Hazardous Waste Rules.

12.0 No court case or violation under EIA Notification, 2006 to the project or related activity reported by project proponent.

13.0 The proposal was considered in the Expert Appraisal Committee (Industry-I) in its 27th meeting held during 3rd – 5th January 2018 and 28th meeting held during 5th – 7th February 2018.

14.0 After detailed deliberations, the committee recommended for the transfer of Environmental Clearance for Hot Strip Mill along with plate finishing facilities from M/s Jindal Stainless Ltd (parent company) to M/s Jindal United Steel Ltd (new company) with specific and general conditions.

15.0 Further, M/s Jindal Stainless Ltd (JSL) submitted the requisite documents vide letter dated 24th March 2018 for transfer of Environmental Clearance, 'No Objection Certificate' from transferor, M/s JSL and Undertaking from transferee, M/s JUSL on non-judicial stamp papers, Punjab and Haryana High Court Order dated 20th October, 2015 and certificate of incorporation of M/s JUSL.

16.0 The Ministry of Environment, Forest and Climate Change, based on the recommendations of the Expert Appraisal Committee (Industry-I), hereby decided to transfer the Environmental Clearance of Hot Strip Mill (1.6 MTPA) along with plate finishing facilities from M/s Jindal Stainless Ltd (parent company) to M/s Jindal United Steel Ltd (new company) under clause 11 of EIA Notification, 2006 and subsequent amendments subject to strict compliance of the following Specific and General conditions:

A. Specific Conditions:

- i. Bag Filter shall be installed to control the emissions from PFS. On-line continuous monitoring system shall be installed to monitor various pollutants and data submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and OPCB. Dust suppression system shall be installed at raw material handling areas, material transfer points and solid waste dumps to control fugitive emissions. Water sprinkling shall be done on the roads to control fugitive emissions.
- ii. No ground water shall be used for the plant. All the treated waste water shall be recycled and reused in the process and 'Zero' discharge shall be strictly adopted as per direction of OPCB. Effluent from Hot Strip Mill shall be treated in ETP and shall be reused. TDS in the effluent discharged shall not be more than 2100 mg/l. The domestic wastewater after treatment in STP shall be used for green belt development.
- iii. Ground water monitoring around the solid waste disposal site/ secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bhubaneswar / CPCB and OPCB.

- iv. Solid waste shall be disposed of in secured landfill designed as per the specifications of the CPCB. Mill scales from Hot Strip Mill (HSM) shall be sold to the parent company (JSL) for recycling.
- v. Green belt shall be developed within and around the plant premises as per the CPCB guidelines in consultation with DFO.

B. General Conditions:

- i. The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.
- ii. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.
- iii. The gaseous emissions from various process units shall 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 level shall go beyond the prescribed standards. On-line continuous monitoring system shall be installed in stacks to monitor SPM and interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- iv. At least four ambient air qualities- monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the OPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar/ OPCB/ CPCB once in six months.
- v. In-plant control measures for checking fugitive emissions from all the vulnerable sources of Hot Strip Mill area, shall also be provided. Fugitive emissions shall be controlled, regularly monitored and records maintained.
- vi. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.
- vii. The overall noise levels in and around the plant area shall be kept within the standards [85 dB(A)] by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EIA Rules, 1989 viz. 75 dB(A) (daytime) and 70 dB(A) night time.
- viii. The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.

- ix. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- x. Recommendations made in the CREP guidelines issued for the steel plants shall be implemented.
- xi. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/ EMP report for Hot Strip Mill.
- xii. The project authorities shall utilize Rs. 4.00 Crores earmarked for the environment pollution control measures judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for other purpose.
- xiii. The Regional Office of this Ministry at Bhubaneswar/ CPCB/ OPCB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
- xiv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB/ Committee and may also be seen at Website of the Ministry Of Environment and Forests at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office.
- xv. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
- xvi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xvii. The Ministry reserves the right to stipulate additional conditions, if found necessary. The Company in a time bound manner will implement these conditions.
- xviii. The above conditions will 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 and Other Wastes (Management & Transboundary Movement) Rules, 2016 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

17.0 M/s Jindal Stainless Ltd shall abide by all the commitments and recommendations made in the EIA/EMP report and that during

presentation to the EAC; commitments made during the Public hearing held on 22.09.2005 for 4x125 MW Captive Power Plant and on 30.06.2006 for Integrated Stainless Steel Plant.

18.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

19.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

20.0 The PP shall ensure no change in the pollution load; and no conflict in sharing in common facilities in day to day operations.


21.0 All the liabilities regarding environmental issues of Hot Strip Mill Unit will be the responsibility of the new company i.e., M/s Jindal United Steel Ltd.

22.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

23.0 This Environmental Clearance is for transfer of **Hot Strip Mill (1.6 MTPA) Unit** along with plate finishing facilities which was part of Environmental Clearance vide J-11011/281/2007-IA.II(I) dated 1st November, 2007.

24.0 Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

This issues with the approval of Competent Authority.


(Sharath Kumar Pallerla)
Scientist 'F' / Director

Copy to:-

1. **The Secretary**, Department of Environment, Government of Orissa.
2. **The Chairman**, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. **The Additional Principal Chief Conservator of Forests (C)**, Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandersekharpur, Bhubaneswar – 751023
4. **The Chairman**, Orissa Pollution Control Board, "Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012.
5. **The Member Secretary**, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. **The District Collector, Jajpur District, Orissa.**

7. **Guard File / Record file / Monitoring file.**

8. **MOEF&CC Website.**

Sharath Kumar Pallerla
25/5/18

(Sharath Kumar Pallerla)
Scientist 'F'/Director