



Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), HARYANA)

To,

The -1
JINDAL STAINLESS (HISAR) LIMITED
O.P. Jindal Marg, Hisar Haryana -125005

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/HR/IND1/401077/2022 dated 22 Sep 2022. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC22B000HR166006
2. File No.	SEIAA/HR/2022/249
3. Project Type	New
4. Category	B
5. Project/Activity including Schedule No.	N/A
6. Name of Project	Jindal Stainless (Hisar) Limited [Hot Rolling Division]
7. Name of Company/Organization	JINDAL STAINLESS (HISAR) LIMITED
8. Location of Project	HARYANA
9. TOR Date	N/A

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 17/11/2022

(e-signed)
Pardeep Kumar, IAS
Member Secretary
SEIAA - (HARYANA)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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PARIVESH

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and Virtuous Environmental Single-Window Hub)



**State Environment Impact Assessment Authority, Haryana,
Bays No.55-58, PrayatanBhawan, Sector-2 Panchkula.**

Tel: 0172-2565232, 4043956
E-mail Id: seiaa-21.env@hry.gov.in

Subject: EC for Jindal Stainless (Hisar) Limited [Hot Rolling Division] at O P Jindal Marg, Hisar, Haryana by M/s Jindal Stainless (Hisar) Limited.

1. This has reference to your Proposal No. SIA/HR/IND1/401077/2022 dated 22.09.2022 and subsequent letter dated 10.10.2022 for obtaining Environmental Clearance under category 3(a) of EIA Notification dated 14.09.2006 along with submission of required Scrutiny Fee amounting of Rs. 2,00,000/- DD No.181749 dated 13.06.2022 in compliance of Haryana Government, Environment & Climate Change Notification No. DE&CCH/3060 dated 14th October, 2021. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, Pre-feasibility Report, EIA/EMP on the basis of approved TOR and additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MoEF& CC, GoI vide their Notification dated 21.02.2022, in its meeting held on 10.10.2022.
2. It is inter-alia, noted that the project involves the EC for Jindal Stainless (Hisar) Limited [Hot Rolling Division] at O P Jindal Marg, Hisar, Haryana.
3. The details of project are as under:

Sr. No.	Particulars	Existing	Proposed	Total area (in m ²)
1	Latitude	29° 7'30.73"N		
2	Longitude	75°46'28.06"E		
3	Net Plot area	6,30,000sqm [63 Ha]	-	6,30,000 sqm [63 Ha]
4	Total Green area with percentage	221,970.09 [54.9 acre] Within plant area: 39,683.5 [9.8 acre] Outside plant: 1,82,286.6 sqm [45.04 acres)	12342.91sqm [3.05 acre] Within plant: 4046.86 [1 acre] Outside the plant: 8296.06 sqm[2.05 acre]	Total Green Area: 2,34,313 [57.9 acre]~ 37.2% Within Plant 43,730.36sqm [10.8 acre] Outside the plant: 190582.65sqm [47.09acre]
5	Rain water	Two Rain water collection tanks of 47066 cum and 14304 cum capacity	-	Two Rain water collection tanks of 47066 cum and 14304 cum capacity
6	STP Capacity	1500 KLD	-	1500 KLD
7	ETP	6000 KLD	-	6000 KLD
8	Power Requirement	100 MVA	-	100 MVA
9	Man Power Requirement (Peak	Direct : 1138 /Contractual :	-	Direct : 1138 /Contractual : 2249

	Season)	2249		
10	Power Backup	Eight [8] nos. of DG sets with total capacity of 43.23 MVA.	-	Eight [8] nos. of DG sets with total capacity of 43.23 MVA.
11	Total water Requirement	5400 KLD	-	5400 KLD
12	Fresh Water	4500 KLD Fresh Water	-	4500 KLD Fresh Water
13	Treated water	900 KLD recycled from onsite ETP and STP	-	900 KLD recycled from onsite ETP and STP
14	Waste Water Generated	1430 KLD (industrial effluent + Domestic effluent)	-	1430 KLD (industrial effluent + Domestic effluent)
15	Total Cost of the Project	1726.46 Cr.	-	1726.46 Cr.
16	EMP Capital Cost	96.14 Crore The capital expenditure has already been invested	-	96.14 Crore The capital expenditure has already been invested
17	EMP recurring cost	17.7 Crore INR/annum	-	17.7 Crore INR/annum
18	Incremental Load in respect of stack emission			
	(i) PM10	2.44 $\mu\text{g}/\text{m}^3$	-	2.44 $\mu\text{g}/\text{m}^3$
	(ii) PM 2.5	1.33 $\mu\text{g}/\text{m}^3$	-	1.33 $\mu\text{g}/\text{m}^3$
	(iii) SO2	3.6 $\mu\text{g}/\text{m}^3$	-	3.6 $\mu\text{g}/\text{m}^3$
	(iv) NO2	12.8 $\mu\text{g}/\text{m}^3$	-	12.8 $\mu\text{g}/\text{m}^3$

The plant is operating with production capacity as follows –

Unit Name	Production Capacity
Steel Melting Shops (Blooms, Ingots and Slabs)	800,000 MT/Annum
Strip Mill (Flat Products)	250,000 MT/Annum
Steckel Mill (Hot rolled coils and plates)	720,000 MT/Annum
Oxygen Plant (Gaseous Oxygen)	78000 MT/Annum
Argon Gas	2700 MT/Annum
Cu-Ni Melting and Cold Rolling	6200 MT/Annum

Raw Material details are as follows:

SN	Name	Quantity,	Source	Transportation
1	MS and SS	500,000	Domestic & International	By Sea and by Road
2	Internal Revert	65000	Within Plant	By Road
3	Cu Metal	4000	Domestic & International	By Sea and by Road
4	Ferro Nickel	35000	Domestic & International	By Sea and by Road
5	Ferro Chrome	140000	Domestic & International	By Sea and by Road
6	Ferro Manganese	30000	Domestic & International	By Sea and by Road
7	Silico	50000	Domestic & International	By Sea and by Road
8	Ferro Silicon	18000	Domestic & International	By Sea and by Road

9	Charged Chrome	20000	Domestic & International	By Sea and by Road
10	Calcium Wire	500	Domestic & International	By Sea and by Road
11	Aluminium	2000	Domestic & International	By Sea and by Road
12	Miscellaneous	50000	Domestic & International	By Sea and by Road
13	Ni Metal	4000	Domestic & International	By Sea and by Road

The Total Raw Material Consumption: 9,18,500 MT/Annum.

Green Area details:

- The unit has existing green area of approx. 39683.5 sqm [6.3% of plot area] within the premises.
- JSHL has proposed to develop additional green area of 4046.86 sqm within the premises within next one year
- Considering the same, total green area within the premises will be approx. 43730.36 sq m [6.9% of project area].
- There is no scope of further green area development within the premises.
- Therefore, JSHL has developed extensive green area of 182307 sqm [approx. 45 acres] in the OP Jindal Modern School premises [owned by JSHL Trust], Residential Colonies of JSHL, O. P. Jindal Mill Gate area Park and avenue plantation in adjoining areas.
- Further, JSHL has now planned to develop additional green area of approx. 8296.06 sqm [2.05 acre] at O. P. Jindal Modern School premises [owned by JSHL Trust].
- Therefore, total green area developed/to be developed by JSHL [HRD] is approx. 234333.42 [57.89 acre] which is around 37.1% of the total plot area of HRD.

**Table
Details of Green Area**

SN	Description	Aerial Distance	Existing Green Area in m ²	Proposed Green Area in m ²	Total Green Area in m ²
1	HRD plant premises - 630,000 [155.7 acre]	--	39683.5 [9.8 acre]	4046.86 [1 acre]	43730.36 [10.8 acre]
2	OP Jindal School	--	68995.0 [17.04 acre]	8296.06 [2.05 acre]	77291.06 [19.09 acre]
3	OP Jindal Mill Gate Area Park	4.07 Km	113312.0 [28 acre]	-	113312 [28 acre]
	Total Green area developed including outside plantation		221990.5 [54.84 acre]	12342.91 [3.05 acre]	234333.42 [57.89 acre] ~ 37%

EMP Budget

Measures for mitigating the impacts	CAPEX [INR]*	OPEX [INR]/Annum
Air pollution control – Air pollution control devices, stacks, fume extraction system, water Sprinkling, Anti Smog Gun	74,32,82,690	14,73,83,420

Water pollution control - ETP, STP, ZLD system	5,43,31,639	1,20,00,055
Storm water drainage and rain water storage	4,54,47,680	43,20,000
Solid wastes management – Non-hazardous, hazardous and municipal solid wastes	19,80,794	16,13,094
Green area development	51,50,780	21,84,000
Environmental monitoring	----	4,00,000
Environment Management Cell	43,10,000	5,93,000
Occupational Health Dept	26,60,000	4,20,000
Safety & Risk Mitigation Measures	43,39,016	81,50,110
Energy Conservation Measures	9,99,00,000	----
Total	96,14,02,599	17,70,63,679

4. In view of the recommendations made by State Expert Appraisal Committee (SEAC) in the said case and further consideration of the documents/details submitted by the Project Proponent; the Authority after discussions decided during **149th Meeting held on 08.11.2022** to **“GRANT ENVIRONMENT CLEARANCE” TO THE PROJECT, UNDER CATEGORY 3(a) OF EIA NOTIFICATION, 2006**, subject to the conditions listed below:

Specific Conditions:

- i. A Green Belt/area of **37% of total plot area** shall be developed in a time frame of two years covering with native species within plant premises and avenue plantation (as committed by PP).
- ii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- iii. No ground water will be extracted.
- iv. The project proponent shall maintain ETP and STP and their treated water will be reused and shall maintain the ZLD status.
- v. SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, and other applications. The project proponent shall install a waste recycling facility to recover metal for recycle to SMS.
- vi. The Oils cum in doily waste from plant shall be sent to registered recyclers.
- vii. All internal road and connecting road from project site to O. P. Jindal Marg shall be developed and maintained with suitable Indian Standards as per the traffic load due to existing and proposed project.
- viii. To Control fugitive dust emission fog/mist sprinklers will be installed in slag processing and metal recovery plant area.
- ix. Tyre washing facilities shall be provided at the entrance of the plant gates.
- x. Performance test shall be conducted on all pollution control systems every year.
- xi. Particulate matter emission from stacks shall be less than 150 mg/Nm³.
- xii. Hazardous waste generated i.e. Empty Barrel/Containers contaminated with Chemicals, Used Oil shall be sent to registered recyclers and the Oil soaked clothes/residues shall be sent to TSDF and Acid Recovery Plant shall be provided.
- xiii. The progress made in CER/EMP Budget expenditure shall be submitted along with six monthly compliance report to the IRO, MoEF & CC and also be uploaded on the company web site.

- xiv. Induction furnace should be provided with fume extraction and dedicated pollution control system and adequate stack height. Secondary fume extraction system with adequate side suction should be provided to prevent fugitive emission during charging. Adequate dust extraction system to be provided with reheating furnaces of rolling mills.
- xv. The gaseous emission from various processes should conform to the load/ mass based standards as prescribed by the Ministry of Environment & forest and the Central/State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.
- xvi. Particulate matter emission from stacks shall be as per the stipulated guidelines of SPCB.
- xvii. Water meter to be installed at every inlet point of fresh water uptake and also at circulation point and regular record to be maintained.
- xviii. The project proponent shall install 24 x 7 continuous effluent monitoring system with respect to standards prescribed in environment (Protection) Rules 1986 and its amendments from time to time and connect it to SPCB and CPCB online servers and calibrate the system from time to time according to equipment suppliers' specification through labs recognized under Environment (Protection) Act 1986 or NABL accredited laboratories
- xix. Garland drain and collection pit shall be provided for each stockpile in case of runoff in the event of heavy rains and to check the water pollution due to surface runoff.
- xx. A resource efficiency group shall be created to set annual targets for resource conservation and annual reports shall be furnished to RO
- xxi. All internal roads should be concreted/paved. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movement. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) norms. Proper housekeeping shall be maintained within the premises. Solar lighting should be used as far as practicable complying with HAREDA norms, if applicable.
- xxii. Vehicles carrying a raw material shall be covered with tarpaulin to prevent spreading of dust during transportation
- xxiii. Regular Sweeping of Road shall be practiced with vacuum sweeping machine or water sprinkling to minimize dust.
- xxiv. Adequate measures to be adopted for control of fugitive emissions. Regular water sprinkling should be done to control the fugitive emissions. Bag filter of adequate capacity to be provided to the raw material handling section.
- xxv. Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational health surveillance of workers shall be done on a regular basis and record maintained as per factories act.
- xxvi. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
- xxvii. Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan (DMP) shall be implemented
- xxviii. The project proponent shall carry out heat stress analysis for the workman who work in high temperature work zone and provide personal protection equipment as per the norms of the factory act.

General Conditions:

Statutory Compliance:

The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from

time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

Air quality Monitoring and Preservation

- i. The project proponent shall monitor fugitive emissions in the plant premises at least once in every six month through laboratories recognized under Environment (Protection) Act,1986 or NABL accredited laboratories.
- ii. The project proponent shall maintain primary and secondary fume extraction system at all melting furnaces.
- iii. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- iv. The project proponent shall recycle and reuse pollution dust, grinding dust, mill scale and other metallic fines.
- v. Appropriate Air Pollution Control Measures (APCM) shall be maintained at all the air pollution generating points, so as to comply prescribed stack emission standards.
- vi. The project proponent shall provide leakage detection for Gaseous Fuel Storage Tanks.
- vii. Sufficient number of mobile or stationery mechanized cleaners shall be provided to clean plant roads, shop floors regularly.

Water Quality Monitoring and Preservation

- i. The domestic wastewater will be treated through Sewage Treatment Plant to meet the prescribed standards and will be reused in process and horticulture.
- ii. The project proponent shall maintain the ETP and STP for and treated water will be reused and maintain the ZLD status.
- iii. Water meters shall be provided at the inlet to all unit processes in the steel plants
- iv. The project proponent shall make efforts to minimise water consumption by segregation of used water, practicing cascade use and by recycling treated water.

Noise Monitoring and Prevention

Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

Energy Conservation measures

- i. Energy conservation measures will be adopted such as adoption of renewable energy and provision of LED lights etc., to minimize the energy consumption.
- ii. Explore feasibility to recover waste heat from hot gases in SMS furnace and reheating furnaces and waste heat recovery system shall be installed, if feasible.
- iii. The project proponent shall provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking, around project area and shall maintain the same regularly.
- iv. The project proponent shall Provide LED lights in offices and residential areas.

Waste Management

- i. Used re-factories shall be recycled/ disposed of as per Solid Waste Management Rules, 2016.
- ii. SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, and other applications. The project proponent shall install a waste recycling facility to recover metal for recycle to SMS.
- iii. Kitchen waste shall be composted.
- iv. The waste oil, grease, empty barrels etc shall be disposed of as per the Hazardous

Green Belt

- i. Green belt shall be developed in an area equal to 37% of the plot area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.
- iii. Project proponent shall submit a study report on De-carbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and off setting strategies.

Human Health and Safety Issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
- iv. Fall protection system shall be installed over roof shed and other height precautions to be adhered at height job.

Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 30/09/2020 as part of Corporate Environment Responsibility(CER)activity
- ii. The project proponent shall formulate an environmental policy duly approved by the Board of Directors/Occupier.
- iii. A separate Environmental Cell both, at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iv. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project alongwith the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayat sand Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.

- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report.
- viii. 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).

(Pardeep Kumar, IAS)
Member Secretary,
State Level Environment Impact
Assessment Authority, Haryana, Panchkula.

A copy of the above is forwarded to the following:

1. Director (IA Division), MoEF& CC, GoI, Indira Paryavaran Bhavan, Zorbagh Road-New Delhi-110003.
2. Chairman, State Environment Impact Assessment Authority, Bay No. 55-58, Prayatan Bhawan, Sector-2, Panchkula, Haryana
3. Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula.
4. Director, Environment & Climate Change Department, Haryana, SCO 1-3, Sector-17 D, Chandigarh-160017
5. Director General, Town & Country Planning Haryana, Plot No. 3, Sector - 18A, Madhya Marg, Chandigarh- 160018.
6. Regional Office, Ministry of Environment, Forests & Climate Change, Govt. of India, Bay's No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh-160018.
7. Concerned File/ Office Copy

(Pardeep Kumar, IAS)
Member Secretary,
State Level Environment Impact
Assessment Authority, Haryana, Panchkula.

Signature Not Verified

Digitally signed by Sh. Pardeep
Kumar, IAS
Member Secretary

Date: 11/17/2022 5:20:52 PM
Page 9 of 9