

ENVIRONMENTAL
CLEARANCE



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/IND1/401180/2022 dated 23 Sep 2022. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC22B000HR114376
2. File No.	SEIAA/HR/2022/248
3. Project Type	New
4. Category	B
5. Project/Activity including Schedule No.	N/A
6. Name of Project	Jindal Stainless (Hisar) Limited [COLD 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

(Pro-Active and Responsive Facilitation by Interactive,
and Virtuous Environmental Single-Window Hub)



Subject: EC for Jindal Stainless (Hisar) Limited [COLD 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/IND1/401180/2022 dated 23.09.2022 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.181748 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 [COLD Rolling Division] at O P Jindal Marg, Hisar, Haryana.
3. The details of project are as under:

Sr. No.	Particulars	Existing	Proposed	Total area
1	Latitude	29° 08' 3.64"N		
2	Longitude	75° 46' 17.70"E		
3	Net Plot area	3,62,600 sqm [36.26 Ha]	-	3,62,600 sqm [36.26 Ha]
4	Total Green area with percentage	86,703 sqm [21.4 acre] Within plant area: 34,581 sqm [8.54 acre] Outside plant: 52,122 sqm [12.87 acres]	Within plant: 6879.66 sqm [1.7 acre] Outside the plant: 26304 sqm [6.5 acre]	Total Green Area: 119,886.66 sqm [29.61 acre] ~ 33% Within Plant 41,460.66 sqm [10.24 acre] Outside the plant: 78426 sqm [19.37 acre]
5	Rain water	One Rain water collection tank of 16,675 cum capacity	-	One Rain water collection tank of 16,675 cum capacity
6	STP Capacity	48 KLD domestic Sewage generated from CRD unit is sent to the STP of capacity 1500 KLD at HRD unit across the road	-	48 KLD domestic Sewage generated from CRD unit is sent to the STP of capacity 1500 KLD at HRD unit across the road
7	ETP	4680 KLD (3120 KLD+960 KLD+600 KLD)	-	4680 KLD (3120 KLD+960 KLD+600 KLD)

8	Power Requirement	30 MVA	-	30 MVA
9	Man Power Requirement (Peak Season)	951 direct and 1273 contractual	-	951 direct and 1273 contractual
10	Power Backup	7 nos. of DG sets with total capacity of 15.73 MVA.	-	7 nos. of DG sets with total capacity of 15.73 MVA.
11	Total water Requirement	3720 KLD	-	3720 KLD
12	Fresh Water	3020 KLD Fresh Water	-	3020 KLD Fresh Water
13	Treated water	700 KLD recycled from onsite ETP	-	700 KLD recycled from onsite ETP
14	Waste Water Generated	2074 KLD (industrial effluent + Domestic effluent)	-	2074 KLD (industrial effluent + Domestic effluent)
15	Total Cost of the Project	1726.03 Crore	-	1726.03 Crore
16	EMP Capital Cost	56.18cr The capital expenditure has already been invested.	-	56.18 Cr The capital expenditure has already been invested.
17	EMP recurring cost	17.27 Cr	-	17.27 Cr
18	Incremental Load in respect of stack emission			
	(i) PM ₁₀	2.64 µg/m ³	-	2.64 µg/m ³
	(ii) PM _{2.5}	1.58 µg/m ³	-	1.58 µg/m ³
	(iii) SO ₂	0.210 µg/m ³	-	0.210 µg/m ³
	(iv) NO ₂	0.858 µg/m ³	-	0.858 µg/m ³

Production Details:

Product	Production MT/annum	Quantity
Cold Rolled Strips (CRAP)	401500	
Hot Rolled Strips (HRAP)	146000	
Coin Blanks	9125	
Cold Rolled Special Steel (SPD)	29200	
Stainless Steel Precision Strips	34675	

RAW Material Details:

SN	Name	Quantity, TPA	Source	Transportation
1	Hot Rolled Coils of Stainless Steel	550000	Majorly From Hot Rolling Division of JHSL	By Trucks
2	Hydrofluoric Acid	1800	Domestic	By Road
3	Nitric Acid	14000	Domestic	By Road
4	Sulphuric Acid	950	Domestic	By Road
5	Ammonia	3000	Domestic	By Road
6	Propane	25000	Domestic	By Road
7	Fuel Oil	1500	Domestic	By Road
8	Rolling Oil	385	Domestic	By Road

Green Area Details:

- The PP has submitted that Existing green area within the premises (Approx.) is 34,581 sqm [9.54% of plot area]
- The PP has further proposed to develop additional green area of 6879.66 sqm within the premises. Total green area within the premises will be approx. 41,460.66 sqm [11.43 % of project area].
- There is no scope of further green area development within the premises.
- Considering avenue plantation and green area developed by JSHL in the vicinity of the premises, i.e., Jindal Club, OP Jindal Marg and Agriculture Land at Mirkan Village, the green area has been estimated as 57,787 sqm [approx. 14.3 acres] outside the premises.
- Further, JSHL has now proposed to develop additional green area of approx. 26304 sq m [6.5 acre] at agriculture land at Mirkan Village owned by the company.

**Table
Green Area Detail**

Sr. No.	Description	Aerial Distance	Existing Green Area in m ²	Proposed Green Area in m ²	Total Green Area in m ²
1	CRD plant premises - 362,600 sqm [89.6 acre]		34,581 [8.54 acre]	6879.66 [1.7 acre]	41,460.66 [10.24 acre]
2	Club	2.75 Km	33912 [8.37 acre]	-	33912 [8.37 acre]
3	Agriculture land at Mirkan Village	5.44 Km	18210 [4.6 acre]	26304 [6.5 acre]	44514 [11 acre]
	Total Green area developed including outside plantation		86,703 [21.41 acre]	33,183.66 [8.2 acre]	119,886.66 [29.61 acre] ~ 33%

The PP further submitted that in addition to the above mentioned detail, JHSL has developed and maintaining 1.4 acres green area, adjoining OP Jindal Marg.

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 and Anti smog gun	30,46,48,073	8,49,78,025
Water pollution control - ETP, STP, ZLD system	36,69,543	7,28,54,471
Storm water drainage and rain water storage	3,02,40,000	34,80,000
Solid wastes management – Non-hazardous, hazardous and municipal solid wastes	19,80,794	16,13,094
Noise pollution control - Acoustic enclosures, acoustic treatment of staff cabins, silencers, etc.	8,35,000	----
Green area development	16,90,000	15,92,000
Environmental monitoring	----	4,00,000
Environment Management Cell	15,00,000	5,93,000
Occupational Health Dept	10,64,000	2,40,000

Safety & Risk Mitigation Measures	1,00,18,845	70,18,964
Energy Conservation Measures	20,62,00,000	----
Total	56,18,46,255	17,27,69,554

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:

1. A Green Belt/area of **33% 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).
2. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
3. No ground water will be extracted.
4. The project proponent shall maintain ETP and treated water will be reused and maintain the ZLD status.
5. The Oil scum and oily waste from plant shall be sent to registered re-cyclers.
6. All internal road and connecting road from project site to main highway shall be maintained with suitable Indian Standards as per the traffic load.
7. Performance test shall be conducted on all pollution control systems every year.
8. Particulate matter emission from stacks shall be less than 150 mg/Nm³.
9. Hazardous waste generated i.e. Empty Barrel/Containers contaminated with Chemicals, Used Oil shall be sent to registered re-cyclers and the Oil soaked clothes/residues shall be sent to TSDF and Acid Recovery Plant shall be maintained.
10. The progress made in CER/EMP Budget expenditure shall be submitted along with six monthly compliance report to the IRO and also upload on the company web site.
11. 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.
12. Particulate matter emission from stacks shall be as per the stipulated guidelines of SPCB/CPCB.
13. Water meter to be installed at every inlet point of fresh water uptake and also at circulation point and regular record to be maintained.
14. 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
15. 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.
16. A resource efficiency group shall be created to set annual targets for resource conservation and annual reports shall be furnished to RO
17. 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.
18. Vehicles carrying a raw material shall be covered with tarpaulin to prevent spreading of dust during transportation
 19. Regular Sweeping of Road shall be practiced with vacuum sweeping machine or water sprinkling to minimize dust.
 20. Adequate measures to be adopted for control of fugitive emissions. Regular water sprinkling should be done to control the fugitive emissions.
 21. 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.
 22. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
 23. Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan (DMP) shall be implemented
 24. The project proponent 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 months through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. Appropriate Air Pollution Control Measures (APCM) shall be provided for all the air pollution generating points, so as to comply with prescribed stack emission standards.
- iii. The project proponent shall provide leakage detection for Gaseous Fuel Storage Tanks.
- iv. The project proponent shall design the ventilation system for adequate air changes as per prevailing norms for all motor houses, Oil Cellars wherever required.

Water Quality Monitoring and Preservation

- i. The domestic wastewater will be treated through Sewage Treatment Plant in adjacent unit HRD (as committed by PP) to meet the prescribed standards.
- ii. The project proponent shall maintain the ETP and treated water will be reused and maintain the ZLD status.

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 Integrated Regional Office (IRO), MoEF&CC 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. Waste Heat Recovery System shall be provided as per technical feasibility.
- iii. Green Hydrogen Plant will be installed as committed by project proponent.

Waste Management

- i. Waste Acid Recovery Plant shall be provided.
- ii. Interleaving paper shall be recycled to maximum possible extent.
- iii. Kitchen waste shall be composted.

Green Belt

- i. 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.
- ii. 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 offsetting 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 record shall be maintained.

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 company shall have a well laid down 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.

Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with 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).
 - ix. The Project Proponent should intimate to the Authority as well as to the quarter concerned in case of any change in the present communication address.

(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 12:03:53 PM
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