



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

To,

The vicepresident  
JSW JAIGARH PORT LIMITED  
JSW Centre, Bandra Kurla Complex, Bandra East, Mumbai,  
Maharashtra, Ratnagiri, Maharashtra-400051

**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 Ministry vide proposal number IA/MH/NCP/291831/2022 dated 29 Sep 2022. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC23A033MH147958
2. File No.	10-17/2016-IA.III
3. Project Type	Modernization7
4. Category	A
5. Project/Activity including Schedule No.	7(e) Ports, Harbours
6. Name of Project	Amendment in Environmental and CRZ Clearance: Phase II Expansion of JSW Port at Jaigarh
7. Name of Company/Organization	JSW JAIGARH PORT LIMITED
8. Location of Project	Maharashtra
9. TOR Date	N/A

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

Date: 16/02/2023

(e-signed)  
Amardeep Raju  
Scientist E  
IA - (INFRA-1 sector)

*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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Environmental Clearance under clause 7(ii) of EIA Notification, 2006 for change in configuration by modification within the approved cargo handling capacity of and cargo profile in the EC dated 19<sup>th</sup> December, 2013 and subsequent amendments by M/s JSW Jaigarh Port Ltd.

2. The above mentioned proposal was placed before the EAC in its 316<sup>th</sup> meeting during 15<sup>th</sup>-16<sup>th</sup> December, 2022. The project proponent along with the EIA consultant M/s Ultra Tech has made a presentation and provided the following information.

3. The above proposal is for amendments in the Environmental and CRZ clearance under Para 7 (ii) clause of the EIA notification 2006 regarding change in the cargo mix as Iron Ore including Lumps, Fines, Concentrate and Pellets will increase from 5 to 17 MTPA; Coal will reduce from 20 to 13 MTPA, Bauxite will reduce from 1.2 to 0.2 MTPA, Iron & Steel will reduce from 4 to 1 MTPA, Lime stone will remain unchanged at 1 MTPA. Similarly, the containerized cargo volume will reduce from 12 MTPA (1.0 million TEU) to 9 MTPA (0.75 million TEU), Sugar will increase from 0.5 to 2 MTPA and Fly Ash will increase from 0.5 to 1 MTPA. The remaining cargo viz. Fertilizer, Cement & Clinker, Automobiles, Molasses, POL (Crude + Product), LPG, Chemicals and Edible Oil will remain unchanged. This change in cargo mix neither changes the volume of total bulk solid/containerized cargo at 44.20 MTPA nor the total cargo volume as permitted by the EC dated 19<sup>th</sup> December, 2013 and subsequent amendments. This modification does not require any additional berths or dredging / reclamation at the port.

4. Environmental and CRZ Clearance for the Phase II expansion of JSW Jaigarh Port was granted by MoEFCC, New Delhi vide letter dated 19<sup>th</sup> December, 2013, amended 30<sup>th</sup> March, 2015, and 10<sup>th</sup> January, 2020. In this phase, capacity of the port is being expanded to 80 MTPA constituting cargoes like Coal, Bauxite, Lime Stone, Iron & Steel, Iron Ore, Fly Ash, Sugar, Containers, Fertilizer, Cement, Clinker, Automobiles, Molasses, POL (Crude + Product), LPG, Chemicals, LNG, Edible Oil, General Cargo, etc. The nomenclature of berths are 1, 2, 3A, 3B, 4A, 4B, 5, 6A, 6B, 6C, 6D, 6E, Bitumen and Inland.

5. Now PP applied for amendment regarding change in the cargo mix as following:

S.no.	Cargo	Throughput (MTPA)	
		Permitted	Proposed
1	Coal	20.0	13.0
2	Fly Ash	0.5	1.0
3	Sugar	0.5	2.0
4	Bauxite	1.0-1.2	0.2
5	Lime Stone	1.0	1.0
6	Iron & Steel	4.0	1.0
7	Iron Ore	5.0	17.0
8	Containers	12.0	9.0
	Total	44.20	44.20

6. The project/activity is covered under category 'A' of item 7(e) i.e. Ports, harbors, break waters, dredging' of the schedule to the EIA Notification, 2006 and its subsequent

amendments, and requires appraisal at Central level. Total investment/cost of the project is Rs. 25,00,000/- (Rs. Twenty-Five Lakhs Only.).

7. The Geo-coordinates of project starts from Latitude: 17° 18'00'' and 17° 18'18'' North to Longitude: 73°12'00'' and 73°13'00'' East.

8. Land use/Land cover of the project site is as shown in below Table:

S. No.	Land use/Land cover	Area (ha)	%	Remarks, if any
1	Total Port Area	165.59	100	-
2	Construction	30.45	18.38	Berth, Buildings, Covered Shed / Godowns, Roads etc.
3	Green Belt	55.12	33.28	-
4	Open Land	80.02	48.32	-

9. Water Bodies & impact on Drainage: The Port is operational in the Damankhol Bay/ Shastri River mouth. No major impact on water bodies and drainage pattern.

10. Water requirements: Total water required during operation phase is 2000 m<sup>3</sup> of fresh water. The existing water source of the port would be utilised for the present expansion also with respect to the additional water requirement. Water is sourced from MIDC through Tankers. No Ground water extraction is proposed.

11. Waste Management: Waste generation at the port would be mainly from the domestic sources. Sewage generated is treated in the sewage treatment plant at the port. Municipal Solid waste generated at the port is segregated. The biological waste is disposed at the landfill site and used for manure. Other waste is handed over to the local body for further disposal.

12. Sewage Treatment Plant (STP): Sewage Treatment Plants (STPs) of 60 KLD is installed at the port for treatment of effluents generated from domestic wastes. The sewage generated is treated by MBR (Mixed Bed Reactor) technology.

13. Tree cutting and Green belt development: No tree cutting is involved. The existing infrastructure facilities are adequate. Greenbelt area of 55 ha has been created inside and in periphery of the port with 1,37,143 trees and shrubs.

14. CRZ details: The extant port facility lies in the CRZ I (B), CRZ III, and CRZ IV areas. The CRZ demarcation study was carried out through Institute of Remote Sensing (IRS), Anna University, Chennai, an agency authorized by MoEF&CC. CRZ recommendations for the Change in the Cargo Profile and Mode of Transportation at the Jaigarh port facility is granted by Maharashtra Coastal Zone Management Authority (MCZMA) vide letter dated 18th July, 2022.

15. Foreshore facilities: The shoreline of the bay is generally in the east-west direction and is fringed with lateritic rocky outcrops, with little or no littoral drift. Therefore, the shorelines are stable and no dredging is involved and no reclamation is proposed as a part of amendment.

16. Cargo handling with dust control measures: Berths at the port are well equipped with fully mechanized handling systems. Bulk cargoes are handled with special purpose quay unloaders equipped with locking grab buckets and discharge hoppers. Cargo is moistened at this point with plenum water fogging ring. Moistened coal is taken by a series of covered conveyor belts to stockpile. Stacking and reclamation of cargo is carried out in mechanised fashion by use of Stacker-cum-Reclaimers, under continuous sprinkling of water. In addition, about 22m tall geotextile wind barrier has been erected around the stockpiles. Sufficient greenbelts around the periphery to contain the fugitive emissions. Jaigarh Port is the first port to have adopted longitudinal covered storage to reduce fugitive emissions in the port area and there are two covered storages inside the port, with two more in the construction stage. The port has also 10 covered godowns for storing different cargoes bulk and bagged cargoes and constructing an additional one. Risk Analysis and Disaster Management Plan has been prepared along with the mitigations by DNV AS, Chennai.

17. PP has submitted the consequence analysis of LPG unloading hose rupture (Catastrophic rupture) due to BLEVE has been carried out in the QRA. The effects from BLEVE are assessed for the intensity of incident heat radiation.

18. Land acquisition and R&R issues: No R&R involved in the instant amendment.

19. The Certified Compliance report obtained from Regional Office, Nagpur MoEF&CC, vide letter dated 02.12.2022. The committee also observed that the compliances of the earlier EC are in order.

20. Employment Potential: The total manpower requirement of the project is 115 persons directly and indirectly out of which During Operation phase 25 persons will get Permanent Employment and will get Temporary employment of 30 persons and during construction about 20 persons will get permanent employment and 40 persons will get temporary employment.

21. Benefits of the project: The project delivers many tangible benefits to the govt. and society as well. Revenue generation to the Govt. The State Govt., exclusively MMB is benefitted through the water front rentals paid, and revenue from cargo handling. Locals are benefitted through various means of employment opportunity. Local villagers get benefitted through various CSR activities so that the socio-economic condition of the local area people is improved.

22. Details of court cases: No court case is pending against the proposed project.

23. The EAC based on the information submitted and clarifications provided by the project proponent and detailed discussions held on all the issues in its 316th meeting during 15th-16th December, 2022, recommended the project for grant of environmental clearance under clause 7(ii) of EIA Notification, 2006 for change in configuration by modification as following within the approved cargo handling capacity and cargo profile mentioned in the environmental clearance vide letter no. 10-17/2006-IA.III dated 19<sup>th</sup> December, 2013, its subsequent amendments 30<sup>th</sup> March, 2015, 03<sup>rd</sup> March, 2015, 12<sup>th</sup> June, 2018 and 10<sup>th</sup> January, 2020 subject to all specific conditions.



Change in configuration by modification within the approved cargo handling capacity of and cargo profile are as following.

S. No.	Cargo	Throughput (MTPA)	
		Earlier granted	Recommended
1	Coal	20.0	13.0
2	Bauxite	1.2	0.2
3	Lime Stone	1.0	1.0
4	Iron & Steel	4.0	1.0
5	Iron Ore	5.0	17.0
6	Fly Ash	0.5	1.0
7	Sugar	0.5	2.0
8	Containers	12.0	9.0
9	Fertilizer	1.5	1.5
10	Cement and Clinker	1.0	1.0
11	Automobiles	1 million units	1 million units
12	Molasses	1.0	1.0
13	POL (Crude + Product)	8.0	8.0
14	LPG	2.0	2.0
15	Chemical	0.5	0.5
16	Edible Oil	0.5	0.5
17	LNG	8.0	8.0
18	LNG (FSRU)	6.0	6.0

24. The Ministry of Environment, Forest and Climate Change has considered the proposal based on the recommendations of the Expert Appraisal Committee (Infrastructure, CRZ and other Miscellaneous projects) and hereby decided to grant Environmental Clearance for the “Change in configuration by modification within the approved cargo handling capacity of and cargo profile at para no.23 above within the approved cargo handling capacity and cargo profile mentioned in the environmental clearance vide letter no.10-17/2006-IA.III dated 19<sup>th</sup> December, 2013 and its subsequent amendments 30<sup>th</sup> March, 2015, 03<sup>rd</sup> March, 2015, 12<sup>th</sup> June, 2018 and 10<sup>th</sup> January, 2020 granted for Expansion of JSW Port at Jaigarh, District Ratnagiri, Maharashtra by M/s JSW Jaigarh Port Ltd” under 7(ii) clause of EIA Notification, 2006 as amended, subject to strict compliance of the following specific conditions, in addition to all other terms and conditions prescribed in the environmental clearance vide letter no.10-17/2006-IA.III dated 19<sup>th</sup> December, 2013, its subsequent amendments 30<sup>th</sup> March, 2015, 03<sup>rd</sup> March, 2015, 12<sup>th</sup> June, 2018 and 10<sup>th</sup> January, 2020.

#### **SPECIFIC CONDITIONS**

- i. PP shall make additional arrangement if required for protection of possible fire hazards during material handling. Firefighting system shall be as per the norms.

- ii. All the recommendations of the Risk Analysis and Disaster Management Plan prepared by DNV AS, Chennai shall comply and the status compliance shall be submitted to the concern IRO, MoEFCC.
  - iii. All the recommendations mentioned in the risk assessment report, disaster management plan and safety guidelines shall be implemented. SoP for Oil Spillage prevention and mitigation measures shall be prepared and made available at site for implementation. In case of oil spillage/contamination, Emergency Preparedness Plan shall be in place. To clean the site from contamination and pollution of marine/coastal waters, treatment of shall be adopted with proven technology.
  - iv. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorised recyclers. Necessary arrangement for general safety and occupational health of people should be done in letter and spirit.
  - v. All the recommendations and conditions specified by the Maharashtra State Coastal Zone Management Authority (MCZMA) vide letter No CRZ 2020/CR 87/TC 4 dated 18<sup>th</sup> July, 2022 shall be complied with.
  - vi. All other terms and conditions prescribed in the environmental clearance vide letter no. 10-17/2006-IA.III dated 19<sup>th</sup> December, 2013, its subsequent amendments 30<sup>th</sup> March, 2015, 03<sup>rd</sup> March, 2015, 12<sup>th</sup> June, 2018 and 10<sup>th</sup> January, 2020, shall remains unchanged.
25. This issues with the approval of the Competent Authority.



(Amardeep Raju)  
Scientist-E

Copy to:

- i. The Secretary, Department of Environment, Govt. of Maharashtra, Mantralaya, Mumbai - 400032.
- ii. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32.
- iii. The Chairman, Maharashtra Coastal Zone Management Authority, Room No.217 (Annex e), Mantralaya, Mumbai - 400032.
- iv. The Chairman, Maharashtra Pollution Control Board. Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> floor, Opp. PVR Cinema, Sion Circle, Mumbai-400 022.
- v. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001.
- vi. Guard File.
- vii. Monitoring Cell.



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