



File No: IA-J/11011/76/2013-IA-II(IND-I)

Government of India

Ministry of Environment, Forest and Climate Change

IA Division

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Date 11/01/2026



To,

M/s. JSW STEEL LIMITED  
Bandra Kurla Complex, Bandra (East)  
Mumbai - 400051, MAHARASHTRA,  
Email: anand.rai@jsw.in

**Subject: Expansion of Integrated Steel plant Capacity from 10 MTPA to 15 MTPA by M/s. JSW Steel Ltd, Dolvi Works, located at Dolvi, Raigad District, Maharashtra – Grant of Environment Clearance -Reg.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/MH/IND1/553173/2025 dated 23/10/2025 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

<b>(i) EC Identification No.</b>	EC25A1001MH5653179N
<b>(ii) File No.</b>	IA-J/11011/76/2013-IA-II(IND-I)
<b>(iii) Clearance Type</b>	Fresh EC
<b>(iv) Category</b>	A
<b>(v) Project/Activity Included Schedule No.</b>	3(a) Metallurgical Industries (ferrous and non ferrous), 1(d) Thermal Power Plants
<b>(vi) Sector</b>	Industrial Projects - 1
<b>(vii) Name of Project</b>	Expansion of Integrated Steel plant Capacity from 10.0 MTPA to 15 MTPA at JSW Steel Ltd., Dolvi Works located at Dolvi village, Raigad District, Maharashtra
<b>(viii) Name of Company/Organization</b>	JSW STEEL LIMITED
<b>(ix) Location of Project (District, State)</b>	RAIGAD, MAHARASHTRA
<b>(x) Issuing Authority</b>	MoEF&CC
<b>(xi) Applicability of General Conditions as per EIA Notification, 2006</b>	No

3. The proposed project activity is listed at S.No. 3(a)- Metallurgical Industries (ferrous and non-ferrous) and 4(b) Coke Oven Plants under Category “A” of the schedule of the EIA Notification, 2006 and being appraised at Central Level.

4. The proposal was considered during 14<sup>th</sup> EAC (Industry-1) Meeting held on 30<sup>th</sup>-31<sup>st</sup> October, 2025 wherein after detailed deliberations, the committee recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

5. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1 Sector) are at **Annexure-II**.

6. The Unit configuration and capacity of the proposed project is at **Annexure-III**.

7. The EAC, in its 14<sup>th</sup> EAC (Industry-1) Meeting held on 30<sup>th</sup> – 31<sup>st</sup> October, 2025, inter-alia, deliberated the following:

i. The instant proposal is for enhancement of production capacity of the existing integrated Steel plant from 10 to 15 MTPA.

ii. The existing 10 MTPA project was accorded environmental clearance vide F.No. J-11011/176/2013-IA-II(I) dated 25/08/2015 and amendment in EC dated 16/06/2020. Latest Consent to Operate for the existing unit was accorded by Maharashtra State Pollution Control Board vide Ir. No. Format1.0/CAC/UAN No.MPCB CONSENT-0000204020/CR/2503001220 dated 08.03.2025. The validity of CTO is up to 03.04.2028.

iii. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

iv. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

v. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

vi. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.

vii. The EAC reviewed the compliance statement submitted by the project proponent regarding the applicability of MoEF&CC's Office Memorandums and Notifications to their proposal which include aspects such as land acquisition status / presence of streams or nallahs within the site / validity of baseline data / validity of the Certified Compliance Report / validity of the Public Hearing (PH), among other relevant factors. Upon examination, the Committee observed that the proposal pertains to an expansion within the existing premises, involving only a marginal additional area, and found it suitable for further appraisal.

viii. The total land is 627. 35 ha (Existing 615.135 ha and Additional 12.215 ha) which is a private land. PP

submitted that total land is under the possession of the company. The plant machinery and equipment for the proposed expansion from 10 to 15 MTPA will be installed on 135.9 hectares of land, comprising the existing unutilized land of the 10 MTPA plant as well as newly acquired land. As per the submissions of PP, the proposed project land does not involve Forest land and CRZ land, and requisite supporting documents have been uploaded in PARIVESH.

ix. Dolvi village is at a distance of 0.15 km in East direction of the project site along with other 70 Villages and sensitive areas such as RF (0.7 km), schools etc. exists within the study area of the project site. The EAC opined that proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.

x. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.

xi. Natural creeks are present within the project area, Amba River is at a distance of 0.07 km in the West along with other water bodies within the study area of the project site. PP reported that letter is issued by Executive Engineer, Raigad Irrigation Division, Kolad, Raigad for expansion project mentioning HFL and declaration that there is no flood occurrence for last 25 years. The EAC opined that robust and foolproof drainage conservation measures to protect the natural drainage and its flow parameters; along with soil conservation and erosion control measures shall be implemented.

xii. The Committee deliberated on the relocation of four existing transmission lines as proposed in the application and noted that the Project Proponent has already initiated necessary actions in coordination with the Maharashtra State Electricity Transmission Company Limited (MSETCL). It was informed that approval for shifting/ re-routing of the 220 kV Nagothane–Wadkhal 1 & 2 D/C transmission lines (from Location No. 60 to 66 within JSW premises at Geetapuram, Dolvi) has been granted by the Chief Engineer, Mumbai Regional Electrical Inspection Board, Government of Maharashtra, on 21st April, 2025. Further, the provisional charging permission for energization of the rerouted 220 kV lines within JSW premises has been issued on 24th April, 2025. In view of the submissions that action has been initiated in consultation with concerned State Deptt./ Agency, the Committee found the submission satisfactory and advised the PP to ensure compliance with all safety and statutory requirements during the relocation process.

xiii. The project proponent reported that mangroves are present on Amba river (Adjacent to W & N plant boundary) and also at other places within the study area of the project site. The PP submitted the following information:

- The proposed expansion of JSW Steel Ltd., Dolvi Works from 10 MTPA to 15 MTPA involves certain linear facilities such as water pipelines, bridges with galleries for utilities, cross-country conveyors, and railway lines. While the main plant and machinery are located outside the Coastal Regulation Zone (CRZ), these auxiliary facilities fall within CRZ areas categorized as CRZ-IA, IB, III, and IVB, as per the approved Coastal Zone Management Plan (CZMP) 2019. MCZMA, vide letter No. **IA/MH/CRZ/457726/2024 dated 01.01.2025**, has recommended the proposal to MoEF&CC with specific conditions.
- In compliance with MCZMA's condition (ii), prior permission from the **Hon'ble Bombay High Court** (as per PIL No. 87/2006) will be sought after obtaining CRZ clearance. An application for **NOC from the Mangrove Cell** has also been submitted vide letter No. **JSWSL/MG Cell/2024-25-41 dated 12.02.2025**, and acknowledgement has been received.
- As per MCZMA's recommendation, the proposed facilities traverse **8,584.76 sqm of mangrove buffer area**; however, no mangrove cutting is involved. All structures, including conveyors, bridges, and pipelines, will be constructed on **pile foundations** to maintain natural creek flow and ecology. The **wagon tippler facility** lies within

the buffer zone (1,675.39 sqm) but does not require mangrove removal.

• JSW Steel has also taken proactive measures for **mangrove plantation and conservation** under directives from the Hon'ble NGT, Pune (OA No. 122/2015). A **MoU with the Mangrove and Marine Biodiversity Conservation Foundation**, Mumbai, has been signed for **40 hectares of mangrove plantation** in Alibaug Division (24th November, 2024). The company has additionally undertaken **creek restoration** under expert supervision and is maintaining coordination with the Mangrove Cell for future plantation on identified lands.

**The Committee deliberated the matter, and specifically mentioned that the recommendations of EAC (Industry-1) are for the instant project submitted as a Category-A, Schedule 3(a) activity. Accordingly, PP shall be required to seek separate approvals from concerned authorities/ agencies, as may be applicable to the project, and comply with the following:**

- Prior permission/ clearance from the Hon'ble Bombay High Court as per MCZMA's condition (ii) shall be obtained.
- NOC from the Mangrove Cell, Maharashtra, before initiation of CRZ-related construction shall be obtained.
- Strictly comply with conditions stipulated in MCZMA's recommendations/ approval and CRZ clearance (to be obtained).
- Continue mangrove protection and plantation measures in coordination with the Mangrove Foundation.

xiv. The water requirement for the proposed project is estimated as 164059 m<sup>3</sup>/day, out of which 126249 m<sup>3</sup>/day of fresh water requirement will be obtained from the Amba River and the remaining requirement of 37810 m<sup>3</sup>/day will be met from recycling treated effluents generated at the plant. The EAC recommended that the PP secure the required approval from the appropriate authority and ensure laying of proposed pipeline from the river in a timebound manner, along with the permission from the Competent Authority.

xv. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and noted that PM 2.5 and PM10 are reported on the higher side. The EAC opined that a project specific AAQ plan shall be prepared and implemented.

xvi. It is reported that Schedule I fauna species are found in the study area which include Jackal, Fox, Wild Cat, Peafowl, Brahminy Kite, Yellow Crowned Woodpecker, Serpent Eagle, Barn Owl, Indian Cobra and Rat Snake. Site specific wildlife conservation plan has been approved by the Chief Wildlife Warden Maharashtra vide letter dated 22.09.2025. The total budget for implementation of Approved Site Specific Wildlife Conservation plan has been finalized at Rs. 52.55 Lakhs. The EAC opined that the recommendations of the approved plan shall be strictly implemented in consultation with the State Forest Department.

xvii. The Committee also deliberated on the public hearing issues and the revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.

xviii. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.

xix. PP had reported that existing green belt has been developed in 88.26 ha area (and additional 11.34 ha in progress) which is about 13% (additional 3% in progress) of total project area of 627.35 ha with total saplings of 2,11,388 trees. Additionally, JSWSL Dolvi has carried out plantations in 248.90 ha of land outside the plant area. Of this, 51.0 ha has been carried out in degraded forest areas with the assistance of Forest department and 197.90 ha of Mangroves and other plantations have been carried out in nearby village areas with consent of local village Sarpanch's and Tehsildar. Thus, PP submitted that a green belt of at 40% is developed, as against the stipulation of 33% outside the project land. PP proposed to increase the total greenbelt coverage to 156.84 ha (25% of total land

area) within the premises in compliance with OM F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025. The Committee noted that while PP has developed 248.9 ha of greenbelt outside the plant area, which corresponds to 40% i.e. in excess of 33% stipulation, the greenbelt to be developed inside is 13% as against 16% stipulated in the EC of 2020. Further, in line with the obligations of the new OM dated 29-10-2025, the PP submitted that it shall develop a greenbelt of 25% (156.84Ha) in the complete project land of 627.35Ha. The Committee asked PP to complete the greenbelt deficit of 3%, along with the greenbelt development obligation accrued from the instant proposal, by the next monsoon season of 2026. In view of the above, the EAC noted that the complete greenbelt of 25% shall be developed by next monsoon season within the premises, and the outside greenbelt shall be maintained in compliance with the extant provisions.

xx. The PP reported that there are legal cases related to JSW Dolvi under various stages of consideration. The main matter (OA No. 59/2015 before NGT, Pune) challenging the EC for expansion from 5 to 10 MTPA remains stayed by the Hon'ble Bombay High Court in WP No. 13483/2016. Another case (OA No. 122/2015 before NGT, Pune) concerning environmental violations was disposed of on 17th April, 2025, directing JSW to undertake 15 ha mangrove plantation, creek restoration, and spend Rs. 1.60 crore under CSR. JSW has complied through a 40 ha mangrove plantation MoU with the Mangrove Foundation, creek restoration (Rs. 2.6 crore), and a Rs. 7.3 crore municipal waste management project at Dolvi village. Two other cases—RCC No. 85/2020 on alleged construction violations and WP No. 6521/2022 on mangrove-related issues—are pending before respective courts. **The PP submitted that none of the cases restrict it from applying and seeking an expansion of the project, and accordingly, the instant proposal has been submitted to MoEFCC.** The Committee noted PP's submissions, and observed that the PP has taken credible steps to comply with NGT directions, including mangrove plantation and creek restoration. In light of the clarification provided above, the EAC took up the proposal for further consideration and appraisal, subject to continued compliance with judicial directions and submission of status updates on all pending cases in six-monthly compliance reports. **The Committee also observed that its recommendations shall be subject to any orders passed by Hon'ble Court(s)/ Tribunal in future.**

xxi. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.

xxii. The Committee deliberated the certified compliance report and review report issued by RO, MoEF&CC and noted that the RO MoEFCC has made specific observations regarding non-installation of piezometers for groundwater monitoring and air pollution control. In this regard, the PP informed that they do not withdraw groundwater for plant operations, and submitted groundwater quality monitoring data from nearby wells is monitoring the same through a NABL-accredited laboratory, the results of which were satisfactory. **The Committee observed that the purpose of ground water monitoring is to assess contamination, which is partly fulfilled by the monitoring of nearby wells. However, it is also noted that potential of such contamination is near the slag dumping yard, hence, PP may install one piezometer near the slag dumping yard in downstream direction of sub-surface flow. Regular monitoring of the quality of the ground water should be carried out on quarterly basis, and submitted with six-monthly compliance report, along with the monitoring of nearby wells, as proposed by PP.** The Committee also noted that RO MoEFCC has made observations on air quality management aspects of the existing plant, and suggested for improvements in existing practices for better pollution control. **The PP was, therefore, advised to implement best practices for air pollution control like vacuum cleaning of roads, maintenance of records of air pollution control equipment's, etc.** The standard EC conditions of Air Pollution Control also mention similar measures.

xxiii. The Committee deliberated on the slag characteristics and its utilization plan presented by the Project Proponent. **The EAC advised that PP shall avoid slag dumping on agriculture land as it may adversely impact the soil characteristics. The slag shall be disposed off following the standard guidelines issued by regulatory authorities. The PP shall adopt circular resource management practices, including gainful reuse of the slag, in line with CPCB guidelines and submit detailed slag utilization and monitoring records in the six-monthly compliance reports.**

xxiv. The Committee examined the details of e-waste generation and disposal. It was noted that the Project

Proponent has **Combined Consent cum Authorization (CCA)** from MPCB for **127 TPA of e-waste** and estimates an additional **13 TPA** from the proposed expansion (10–15 MTPA). All e-waste is being sold to **CPCB/SPCB authorized recyclers**. The EAC opined that the PP shall maintain strict compliance with the E-Waste (Management) Rules, ensure proper recordkeeping through prescribed returns, and include annual e-waste management status in its compliance reports.

xxv. The Committee deliberated on the measures adopted by the PP to minimize single-use plastic and manage plastic waste. It noted that HDPE bags and other plastic wastes generated are sold to MPCB-authorized recyclers, and that the PP is registered with CPCB under EPR obligations (Brand Owner – BO-17-000-08-AAACJ4323N-23; Importer – IM-20-000-10-AAACJ4323N-23). The EAC appreciated initiatives such as replacement of plastic bottles, use of biodegradable alternatives, and awareness programs. It recommended continued compliance with the Plastic Waste Management Rules, and emphasized the need for an annual audit of plastic waste generation and disposal.

xxvi. The Committee noted that the treated effluent (maximum 615 m<sup>3</sup>/hr) from the plant is discharged through a dedicated cross-country pipeline into the Amba Estuary, for which CRZ clearance was granted on 5<sup>th</sup> April, 2023, and discharge location approved by NIO through dispersion modeling. The EAC reiterated that, as per the 2020 EC condition, the Project Proponent shall achieve Zero Liquid Discharge (ZLD). Until the ZLD system is fully installed and operational, the PP shall ensure that the quality of discharged effluent consistently meets CPCB standards, maintain online analyzer connectivity with MPCB and CPCB, and carry out marine ecology monitoring twice a year in accordance with the CRZ clearance conditions. In this regard, PP submitted that it is proposing for an enhanced effluent treatment scheme, and plans complete utilisation of treated water within 2 years. The EAC noted the submissions of PP, and opined that treated effluent discharge should be stopped within 2 years. An Undertaking in this regard was submitted by PP.

xxvii. The Committee deliberated on the traffic study presented by the PP and noted that the proposed expansion would result in an incremental movement of 11.6 MTPA materials, majorly through environment-friendly conveyor/jetty systems (~87%). The EAC observed that regional infrastructure upgrades, presented by PP, such as Virar–Alibaug Multi-Modal Corridor, RORO ferry and rail systems, and coastal road bridges will cumulatively improve the Level of Service (LoS) from 'F' to 'C' by 2028. Accordingly, the Committee advised the PP to maintain coordination with State authorities for infrastructure improvement as per the proposed regional plan, and implement a Green Mobility Plan within the plant premises, including electric buses for employee transport.

xxviii. The Committee noted that a complaint against the project was received through email, along with a link. The PP submitted a detailed response to the points raised in the compliant, which are deliberated by the Committee. Though the compliant mentioned a link for detailed documentation, the same was not accessible. Accoridngly, the PP's response and EAC deliberations were on the text part of the email. The Committee sought point-wise clarifications from the Project Proponent, along with supporting documents, on the issues raised and examined the point-wise responses, which are also included in the instant deliberations in preceding sections. After detailed discussions, the EAC found the responses satisfactory and noted that the issues raised have been adequately addressed through clarifications, supporting documents, and compliance measures proposed by the PP. The Committee further opined that the Project Proponent shall duly adhere to all commitments made in their submissions and ensure compliance with the applicable statutory requirements and environmental safeguards.

xxix. The EAC also deliberated on the written submission of the project proponent on other issues and found them satisfactory.

xxx. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.

xxxii. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. 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. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

xxxii. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

#### **Recommendations of the Committee:**

8. In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal under the provisions of EIA Notification, 2006 for grant of Environment Clearance subject to stipulation of specific and general conditions. The EAC categorically noted that the recommendation to grant EC is technical in nature under the provisions of the EIA Notification 2006, and subject to the fulfilment of commitments made by the PP to secure all the permissions/ approvals/ consents from Central/ State Authorities, as may be required. The recommendation does not create an obligation for authorities that handle issues related and relevant to construction and operation of the project under other independent procedures/ statutes, including the provisions stipulated in the Land Acquisition (R&R) Act, 2013.

#### **Decision of MoEFCC:**

9. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto, and after accepting the recommendations of the Expert Appraisal Committee (Industry-1 Sector) that the recommendation to grant EC is technical in nature under the provisions of the EIA Notification 2006, and subject to the fulfilment of commitments made by the PP to secure all the permissions/ approvals/ consents from Central/ State Authorities, as may be required. The recommendation does not create an obligation for authorities that handle issues related and relevant to construction and operation of the project under other independent procedures/ statutes, including the provisions stipulated in the Land Acquisition (R&R) Act, 2013. Accordingly, it is hereby decided to grant **Environment Clearance for instant expansion proposal of M/s. JSW Steel Limited (JSWSL)** under the provisions of EIA Notification, 2006 subject to the specific conditions and general conditions (**Annexure-I**).

10. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

11. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

12. 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.

13. 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 and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

14. This issues with approval of the competent authority.

(Dinesh Runiwal)  
Scientist 'F'/Director  
Tel: 011-20819346  
Email-d.runiwal@gov.in

#### Copy To

1. The Secretary, Environment & Forest Department, Government of Maharashtra, 4th Floor, Mantralaya, Mumbai-400032
2. The Secretary, Revenue Department, Government of Maharashtra, 4th Floor, Mantralaya, Mumbai- 400032
3. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
4. The Principal Chief Conservator of Forests & Government of Maharashtra, MECL Building, Dr. Ambedkar Bhawan, Seminary Hills, Civil Lines, Nagpur-440006
5. The Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building Civil Lines, Nagpur-440001
6. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 32
7. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. PVR Cinema, Sion Circle, Mumbai-400 022.
8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
9. The District Collector, Raigad , Mumbai
10. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
11. Guard File/Monitoring File/Website/Record File/Parivesh Portal

#### **Annexure 1**

##### **Specific EC Conditions for (Metallurgical Industries (Ferrous And Non Ferrous))**

###### **1. Specific**

S. No	EC Conditions
1.1	<b>This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.</b>
1.2	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
1.3	The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.

S. No	EC Conditions
1.4	Dolvi village is at a distance of 0.15 km in East direction of the project site along with other 70 Villages and sensitive areas such as RF (0.7 km), schools etc. exists within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
1.5	Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
1.6	Natural creeks are present within the project area, Amba River is at a distance of 0.07 km in the West along with other water bodies within the study area of the project site. Robust and foolproof Drainage Conservation measures to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
1.7	PP shall ensure that relocation and re-routing of the 220 kV Nagothane–Wadkhali 1 & 2 D/C transmission lines are carried out strictly as per approvals granted by the competent authority (MSETCL and Electrical Inspection Board, Government of Maharashtra). All safety, operational, and statutory norms shall be duly complied with.
1.8	Project Proponent shall obtain prior permission/clearance from the Hon'ble Bombay High Court, as stipulated in MCZMA's condition (ii), and secure an NOC from the Mangrove Cell, Maharashtra, before commencing any CRZ-related construction. The PP shall strictly comply with all conditions stipulated by MCZMA and CRZ clearance issued by MoEF&CC. Further, the PP shall ensure no cutting or damage to mangrove vegetation, maintain natural creek flow through pile-based structures, and continue mangrove protection and plantation activities in coordination with the Mangrove and Marine Biodiversity Conservation Foundation.
1.9	The water requirement for the proposed project is estimated as 164059 m <sup>3</sup> /day, out of which 126249 m <sup>3</sup> /day of fresh water requirement will be obtained from the Amba River and the remaining requirement of 37810 m <sup>3</sup> /day will be met from recycling treated effluents generated at the plant. PP secure the required approval from the appropriate authority and ensure laying of proposed pipeline in a timebound manner, along with the permission from the Competent Authority.
1.10	PP shall prepare and implement project specific AAQ plan to minimise the pollution load and implement best practices as per the observations made by RO MoEFCC in its CCR and Review Report.
1.11	<b>Green Belt shall be developed and maintained in the project area in conformity with MoEF&amp;CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025. As committed, PP shall develop a greenbelt of 25% (156.84Ha) in the complete project land of 627.35Ha by 30-07-2026. The outside greenbelt of 248.9Ha shall be maintained. The greenbelt within the premises shall be developed by next monsoon season of 2026. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&amp;CC.</b>
1.12	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the

S. No	EC Conditions
	earmarked 33% or 40%, as the case may be, greenbelt area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriILiFE portal at ( <a href="https://merilife.nic.in">https://merilife.nic.in</a> )
1.13	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented, which is amounting to Rs. 175 Crores. The action plan shall also cover activities related to (i) promotion of environmental education and awareness (including green skills), and (ii) sub-plan to address the vulnerable sections (such as the elderly, children, pregnant women, persons with disabilities, and the terminally ill). An institutional mechanism shall be developed for monitoring the implementation of the commitments made, which shall also manage and address public grievances. The progress of implementation of PH Action plan and grievance redressal shall be submitted regularly to the Regional Office of MoEF&CC.
1.14	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village in consultation with the State Administration.
1.15	PP shall implement the skill development programs, in alignment with relevant Government initiatives/ programmes (like Mission LiFE, ODOP, GSOP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC.
1.16	PP shall Install CO sensors with alarms at strategic locations in the Plant.
1.17	PP shall install a piezometer near the slag dumping yard in downstream direction of sub-surface flow and undertake its regular monitoring to assess the quality of groundwater, along with the monitoring of nearby wells, on quarterly basis, and submit monitoring reports to RO MoEFCC and SPCB with next cycle of six-monthly compliance report.
1.18	PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.
1.19	PP shall establish a dedicated in-house Research & Development (R&D) cell aimed at identifying, evaluating, and implementing emerging clean technologies. The focus of this cell will be on enhancing process efficiency, minimizing waste generation, and promoting circular economy practices within the plant operations. The effectiveness of the R&D initiatives shall be reviewed periodically, and outcomes contributing to sustainability shall be documented and reported
1.20	The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded, compiled and

S. No	EC Conditions
	submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.
1.21	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
1.22	PP shall ensure continued compliance with all directions issued by the Hon'ble NGT, Pune, and other judicial authorities, including implementation of mangrove plantation, creek restoration, and related environmental measures. The PP shall submit periodic status reports on all ongoing and disposed court cases along with the six-monthly compliance reports to the Regional Office of MoEF&CC, ensuring adherence to all judicial and statutory obligations.
1.23	PP shall continue periodic monitoring of groundwater quality in surrounding wells, including key parameters such as chloride and other relevant indicators, through an NABL-accredited laboratory. The monitoring results shall be submitted along with the six-monthly compliance reports to the Regional Office of MoEF&CC. The earlier requirement of installing piezometers is hereby waived.
1.24	PP shall avoid slag dumping on agricultural land as it may adversely impact the soil quality. The slag shall be disposed off following standard guidelines issued by regulatory authorities. The PP shall adopt circular resource management practices, including gainful reuse of the slag, in accordance with CPCB guidelines and maintain detailed records of slag generation, utilization, and monitoring, and submit detailed slag utilization and monitoring records in the six-monthly compliance reports.
1.25	<b>The Project Proponent shall achieve Zero Liquid Discharge (ZLD) as stipulated in the earlier EC. Until the ZLD system becomes fully operational, the PP shall ensure that the treated effluent discharged through the pipeline into the Amba Estuary consistently meets CPCB discharge standards, maintain continuous online analyzer connectivity with MPCB and CPCB, and conduct marine ecology monitoring as per the CRZ clearance conditions. As Committed, the PP shall enhance its effluent treatment scheme, and ensure that treated water is utilised completely, and ZLD is implemented within 2 years i.e. by December 2027.</b>
1.26	PP shall implement a Green Mobility Plan within the plant premises, including the use of electric transport for employees and materials, to minimize vehicular emissions and congestion.
1.27	PP shall monitor VOC in the ambient atmosphere at strategic locations, and the same shall be reported in six-monthly compliance reports.

#### Standard EC Conditions for (Metallurgical Industries (ferrous and non ferrous))

##### 1. Statutory Compliance

S. No	EC Conditions
1.1	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

S. No	EC Conditions
	be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
1.2	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

## 2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.2	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
2.3	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.4	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
2.5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
2.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
2.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
2.8	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
2.9	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.

S. No	EC Conditions
2.10	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
2.11	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
2.12	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
2.13	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
2.14	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
2.15	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
2.16	<b>The particulate matter emissions from the process stacks shall be less than 30 mg/Nm<sup>3</sup> and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.</b>
2.17	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
2.18	Dry quenching (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot coke
2.19	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility). Land-based APC system shall be installed to control coke pushing emissions.
2.20	Monitor CO, HC and O <sub>2</sub> in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.
2.21	Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.
2.22	The coke oven gas shall be subjected to desulphurization if the sulphur content in the coal exceeds 1%.
2.23	Basic Oxygen Furnace (BOF) gas shall be cleaned dry.

S. No	EC Conditions
2.24	Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six monthly compliance report.
2.25	Low NOx Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.

### 3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
3.2	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
3.3	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
3.4	Water meters shall be provided at the inlet to all unit processes in the plants.
3.5	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
3.6	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
3.7	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
3.8	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

### 4. Water Quality Monitoring And Preservation In Case Of Rolling Mills

S. No	EC Conditions
4.1	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.

S. No	EC Conditions
4.2	Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF.
4.3	The project proponent shall provide appropriate ETP for effluents discharged from coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to Coke oven plants) as amended from time to time.
4.4	Treated water from ETP of COBP shall not be used for coke quenching.
4.5	Air Cooled condensers shall be used in the captive power plant.

## 5. Noise Monitoring And Prevention

S. No	EC Conditions
5.1	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
5.2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
5.3	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

## 6. Energy Conservation Measures

S. No	EC Conditions
6.1	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
6.2	Restrict Gas flaring to < 1%.
6.3	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
6.4	Provide LED lights in their offices and residential areas.

## 7. Energy Conservation Measures In Case Of Reheating Furnace

S. No	EC Conditions
7.1	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
7.2	Practice hot charging of slabs and billets/blooms as far as possible.

S. No	EC Conditions
7.3	Ensure installation of regenerative type burners on all reheating furnaces

## 8. Energy Conservation Measures In Case Of Blast Furnace

S. No	EC Conditions
8.1	Blast Furnaces shall be equipped with Top Recovery Turbine, dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.
8.2	Coke Dry Quenching (CDQ) shall be provided for coke quenching for both recovery and non-recovery type coke ovens.

## 9. Energy Conservation Measures In Case Of Dri Kilns (Sponge Iron)

S. No	EC Conditions
9.1	The project proponent shall provide waste heat recovery system on the DRI Kilns.
9.2	The dolochar generated shall be used for power generation.
9.3	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
9.4	The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

## 10. Waste Management

S. No	EC Conditions
10.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
10.2	Kitchen waste shall be composted or converted to biogas for further use.
10.3	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
10.4	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report

S. No	EC Conditions
	being submitted by the project proponents.
<b>10.5</b>	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
<b>10.6</b>	Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.

## 11. Waste Management In Case Of Sinter Plant

S. No	EC Conditions
<b>11.1</b>	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.
<b>11.2</b>	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
<b>11.3</b>	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.
<b>11.4</b>	In case of Non-Recovery coke ovens, the gas main carrying hot flue gases to the boiler, shall be insulated to conserve heat and to maximise heat recovery.
<b>11.5</b>	Tar Sludge and waste oil shall be blended with coal charged in coke ovens (applicable only to recovery type coke ovens).

## 12. Green Belt

S. No	EC Conditions
<b>12.1</b>	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
<b>12.2</b>	Project proponent shall submit a study report on Decarbonisation 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. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
<b>12.3</b>	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

## 13. Public Hearing And Human Health Issues

S. No	EC Conditions
13.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
13.2	The project proponent 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.
13.3	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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
13.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

#### 14. Environment Management

S. No	EC Conditions
14.1	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, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
14.2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
14.3	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 to the head of the organization.
14.4	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

#### 15. Miscellaneous

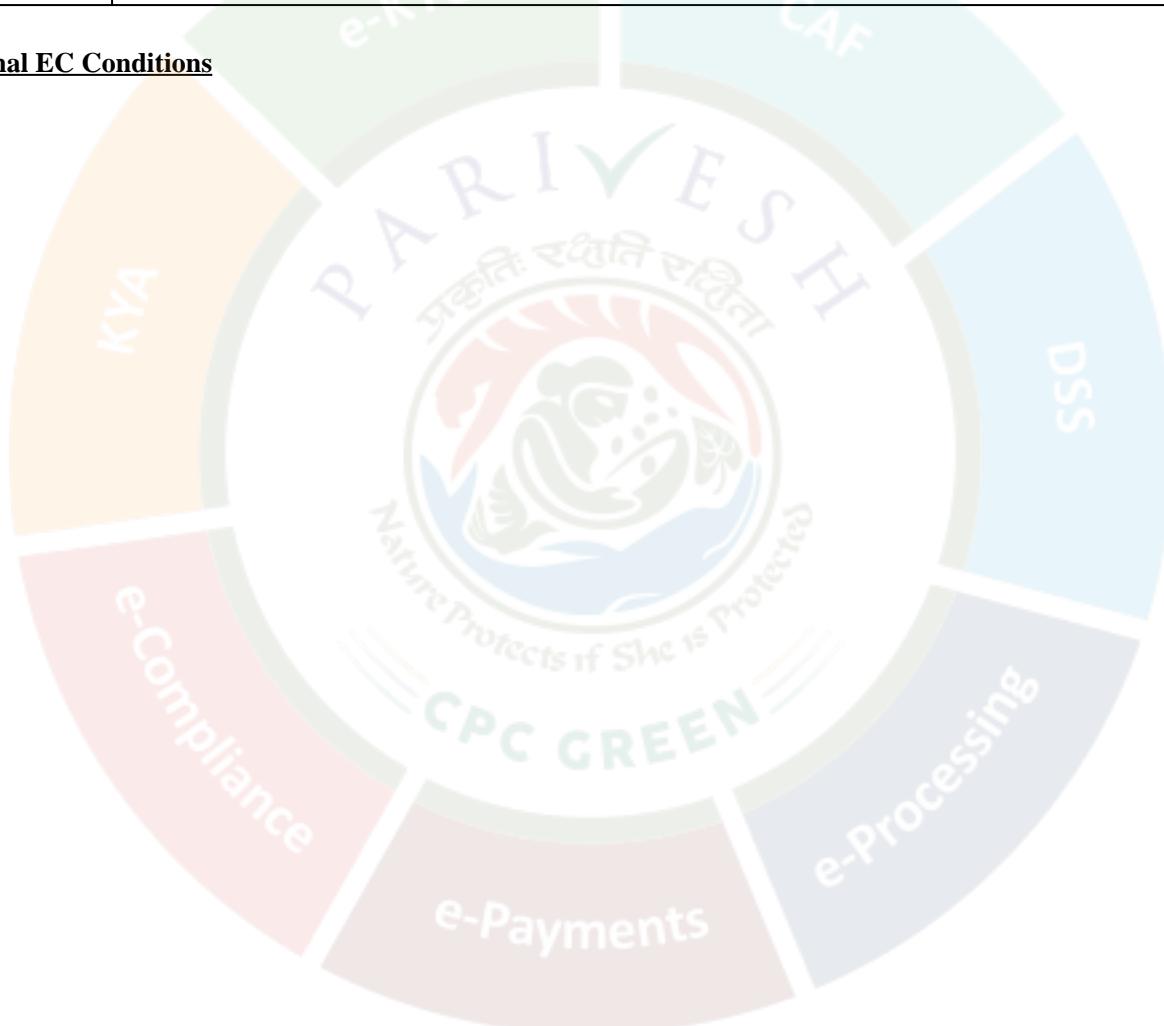
S. No	EC Conditions
15.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

S. No	EC Conditions
15.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and 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.
15.3	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.
15.4	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack 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.
15.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
15.6	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.
15.7	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.
15.8	The project proponent 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, commencing the land development work and start of production operation by the project.
15.9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
15.10	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
15.11	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
15.12	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).
15.13	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

S. No	EC Conditions
<b>15.14</b>	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
<b>15.15</b>	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
<b>15.16</b>	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
<b>15.17</b>	Any appeal against this EC 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.

#### **Additional EC Conditions**

NA



S. No	Particulars	Details				
		Date of application	Consideration	Details	Date of accord	ToR Validity
a.	Terms of Reference for undertaking EIA study	31.10.2023	52 <sup>nd</sup> Meeting of EAC (Industry – 1) held during 23 to 25 Jan., 2024 and 61 <sup>st</sup> Meeting of EAC (Industry – 1) held during 18 to 19 June, 2024	Terms of Reference	16.07.2024	15.07.2028
b.	Period of baseline data collection	01.10.2022 to 31.12.2022 & 01.03.2025 to 31.05.2025				
c.	Date of Public Consultation	22.08.2025				
d.	Action plan to address the PH issues	Action plan as per MoEF&CC O.M. dated 30/09/2020 to address the issues raised during public hearing with a budget of Rs. 175 Crores is attached as Annexure IV.				
e.	Location of the project	Dolvi, Raigad District, Maharashtra				
f.	Total land	The total land is 627.35 ha (Existing 615.135 ha and Additional 12.215 ha) which is a private land. The plant machinery and equipment for the proposed expansion from 10 to 15 MTPA will be installed on 135.9 hectares of land, comprising the existing unutilized land of the 10 MTPA plant as well as newly acquired land				
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	<ul style="list-style-type: none"> <li>• Total land is under the possession of the company.</li> </ul>				
h.	Existence of habitation & involvement of R&R, if any	<p><b>Habitation:</b>  <b>Project site:</b> No habitation within project site.</p> <p><b>Study Area:</b>  There are total 70 nos of Villages in the 10 Km radius study area.</p> <p><b>R &amp; R :</b> Not involved.</p>				
i.	Elevation of the project site	4 - 27 m Above Mean Sea Level				

S. No	Particulars	Details																														
j.	Involvement of Forest land if any.	No involvement of Forest Land.																														
k.	Water body exists within the project site as well as study area	<p><b>Project site:</b> One (1) un-named creek in existing plant area. One (1) more un-named creek between existing plant area and proposed expansion area.</p> <p><b>Study area:</b></p> <table border="1"> <thead> <tr> <th>Water Body</th><th>Distance</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>Amba River</td><td>~0.07 km</td><td>West</td></tr> <tr> <td>Nigade Nadi</td><td>~5.5 km</td><td>South-East</td></tr> <tr> <td>Bhogeshwari river</td><td>~7 km</td><td>North</td></tr> <tr> <td>Hetavne Right Bank Canal</td><td>~2.5 km</td><td>North-East</td></tr> <tr> <td>PoynadTalav</td><td>~3.5 km</td><td>West</td></tr> <tr> <td>Sreegaon Dam</td><td>~4 km</td><td>South-West</td></tr> <tr> <td>Shahpada Dam</td><td>~5 km</td><td>North-East</td></tr> <tr> <td>Nigade Dam</td><td>~5.5 km</td><td>South-East</td></tr> <tr> <td>Kurdus Dam</td><td>~5 km</td><td>South</td></tr> </tbody> </table>	Water Body	Distance	Direction	Amba River	~0.07 km	West	Nigade Nadi	~5.5 km	South-East	Bhogeshwari river	~7 km	North	Hetavne Right Bank Canal	~2.5 km	North-East	PoynadTalav	~3.5 km	West	Sreegaon Dam	~4 km	South-West	Shahpada Dam	~5 km	North-East	Nigade Dam	~5.5 km	South-East	Kurdus Dam	~5 km	South
Water Body	Distance	Direction																														
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Kurdus Dam	~5 km	South																														
l.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	No ESZ / ESA / National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve / Elephant Reserve exist within 10 Km. radius of the plant site																														
m.	List of Reserved and protected forests	<p><b>Project area:</b> None</p> <p><b>Study area:</b></p> <ul style="list-style-type: none"> <li>RF near Navegaon/Karavikhar village (0.7 Km, E)</li> <li>RF near Hemnagar village (1.8 Km, S)</li> <li>Open jungle near Dhonpada (5.3 Km, NE)</li> <li>RF near Nigadi Nadi (6 Km, SE)</li> <li>RF near Sagargad (6.4 Km, W)</li> <li>RF near Ramraj &amp; Kamarle (9.5 Km, NE &amp; 9.9 Km, NW respectively)</li> </ul>																														
n.	Other important vegetation	<p><b>Project area:</b> None</p> <p><b>Study area:</b></p>																														

S. No	Particulars	Details
	area in study area	<ul style="list-style-type: none"> <li>• Mangroves on Amba river (Adjacent to W &amp; N plant boundary)</li> <li>• Mangroves near Dharamtar Creek (8.5 Km NW)</li> <li>• Mangroves on Bhogeshwar nadi (5.5 Km NE)</li> <li>• Biodiversity Garden near Teenvira Dam (7 Km W)</li> </ul>
o.	CRZ	<ul style="list-style-type: none"> <li>• The proposed expansion of JSW Steel Ltd., Dolvi Works from 10 MTPA to 15 MTPA involves certain linear facilities such as water pipelines, bridges with galleries for utilities, cross-country conveyors, and railway lines. While the main plant and machinery are located outside the Coastal Regulation Zone (CRZ), these auxiliary facilities fall within CRZ areas categorized as CRZ-IA, IB, III, and IVB, as per the approved Coastal Zone Management Plan (CZMP) 2019. MCZMA, vide letter No. IA/MH/CRZ/457726/2024 dated 01.01.2025, has recommended the proposal to MoEF&amp;CC with specific conditions.</li> <li>• In compliance with MCZMA's condition (ii), prior permission from the Hon'ble Bombay High Court (as per PIL No. 87/2006) will be sought after obtaining CRZ clearance. An application for NOC from the Mangrove Cell has also been submitted vide letter No. JSWSL/MG Cell/2024-25-41 dated 12.02.2025, and acknowledgement has been received.</li> <li>• JSWSL, Dolvi, has engaged the National Centre for Sustainable Coastal Management (NCSCM) to prepare CRZ maps of the area and M/s Building Environment (India) Pvt. Ltd. (a NABET-accredited consultant) to prepare the EIA report for obtaining CRZ clearance.</li> <li>• The report and CRZ maps are submitted. The CRZ application has been submitted to MoEF&amp;CC vide proposal No. IA/MH/CRZ/45726/2024 dated 04.01.2024. The proposed facilities fall within CRZ areas, specifically CRZ-IA, IB, III, and IVB categories.</li> <li>• MCZMA vide No. IA/MH/CRZ/ 457726/2024 dated 01.01.2025 has recommended the proposal from the CRZ point of view under the CRZ Notification, 2019 to MoEF&amp;CC, New Delhi.</li> </ul> <p>Project Proponent shall obtain prior permission/clearance from the Hon'ble Bombay High Court, as stipulated in MCZMA's condition (ii), and secure an NOC from the Mangrove Cell, Maharashtra, before commencing any CRZ-related construction. The PP shall strictly comply with all conditions stipulated by MCZMA and CRZ clearance issued by MoEF&amp;CC. Further, the PP shall ensure no cutting or damage to mangrove vegetation, maintain natural creek flow through pile-based structures, and continue mangrove protection and plantation activities in coordination with the Mangrove and Marine Biodiversity Conservation Foundation.</p>
p.	Project cost	The capital cost of the proposed project is Rs 23688 Crores.

S. No	Particulars	Details		
		EMP	Capital	Recurring
q.	EMP cost		Rs. 834.12 Crores	Rs. 162.5 Crores
r.	Employment opportunity	The employment generation from the proposed project is 6268 during construction & 3022 during operation directly		
s.	Water and Power requirement	<p>The water requirement for the proposed project is estimated as 164059 m<sup>3</sup>/day, out of which 126249 m<sup>3</sup>/day of fresh water requirement will be obtained from the Amba River and the remaining requirement of 37810 m<sup>3</sup>/day will be met from recycling treated effluents generated at the plant. The permission for drawl of surface water is obtained from Maharashtra Water Resources Department Vide Agreements signed on (a) 12-5-2020 (for 58000 m<sup>3</sup>/day of Industrial Water + 980 m<sup>3</sup>/day of water for domestic use) (b) 15-04-2021 (for 35700 m<sup>3</sup>/day of Industrial Water) (c) 01-07-2021 (for 55160 m<sup>3</sup>/day of Industrial Water) (d) 15-04-2021 (for 9000 m<sup>3</sup>/day of water for domestic use) and (e) 22-03-2022 (for 6000 m<sup>3</sup>/day of Industrial Water + 1000 m<sup>3</sup>/day of water for domestic use).</p> <p>Existing Power Requirement of 1097 MW is obtained from in plant captive power generation (Total in-plant captive power generation: 349.25 MW (Maximum); 230 MW from by-product gas based CPP, 70 MW from waste heat recovery boilers in CDQ and 49.25 MW from TRT) and remaining 749 MW from JSW Energy Limited and Maharashtra State Electricity Board. The power requirement for the proposed project is estimated as 340 MW, out of which 300 MW will be generated in-house at proposed by-product gas based Captive Power Plant and 36 MW will be generated through TRT of new Blast Furnace. The balance power demand of 4 MW shall be met from JSW Energy Limited and Maharashtra State Electricity Board.</p>		
t.	CPA/SPA	No		

The unit configuration and capacity of existing and proposed project are provided below.

Sl. No.	Facilities	Existing facilities as per EC dated 25/08/2015 and subsequent amendment dated 16/06/2020 and EC transfer dated 22/11/2021	As per present CTO		After expansion		Remarks
			Configuration	Capacity	Configuration	Capacity	
1.	Coke Ovens	4.5 MTPA	1x1.0 + 1x3.0 MTPA	4.0 MTPA	1x1.0 MTPA + 1x3.0 MTPA	4.0 MTPA	No change
2.	Sinter Plant	10 MTPA	1x2.8 + 1x2.5 MTPA	5.3 MTPA	1x2.8 + 1x3.2 + 1x4.0 MTPA	10.0 MTPA	Under implementation. No change proposed.
3.	Pellet Plant	13 MTPA	1x4.0(ARCL) + 1x9.0 MTPA =	13 MTPA	1x4.0(ARCL) + 1x9.0 MTPA	13 MTPA	Implemented
4.	Blast Furnace including Pig casting	8.1 MTPA	1x3.5 + 1x4.5 MTPA	8.0 MTPA	1x3.5 + 1x4.5 + 1x5.0 MTPA	13.0 MTPA	Installation of new BF of 5.0 MTPA proposed.
5.	DRI (Gas based Mega Module)	4 MTPA	1 x 2 MTPA	2.0 MTPA	1 x 2 MTPA	2.0 MTPA	DRI-2 of 2 MTPA dropped.
6.	SMS	11.2 MTPA	SMS1(CONARC)- 1x5.2 MTPA SMS2(BOF)-6.0 MTPA LF-2x200 + 205 + 2x300 T VD-VOD / RH- TP - 1x200 + 1x205 + 2x300 T	11.2 MTPA	SMS1 (CONARC)- 1x5.2 MTPA SMS2(BOF)- 9.8 MTPA LF-2x200 + 205 + 2x300 + 1x350 T VD-VOD/ RH-TP - 1x200 + 1x205 + 2x300 + 1x350 T	15 MTPA	Enhancement of existing SMS-2 by addition of a new BOF convertor of 350T proposed. Installation of matching capacity twin LF & VD/VOD of 350T proposed.
7.	Casters	9.41 MTPA (Conventional Slab Caster)	1x5.73 MTPA	5.73 MTPA	1x5.73 MTPA 1x3.68 MTPA	9.41 MTPA	9.41 MTPA (as per earlier EC)
		3.5 MTPA (CSP)	1 x 3.5 MTPA	3.5 MTPA	<b>1x 4.5 MTPA</b>	8 MTPA	Installation of new CSP (part of CSP-2) of 4.5 MTPA proposed.

Sl. No.	Facilities	Existing facilities as per EC dated 25/08/2015 and subsequent amendment dated 16/06/2020 and EC transfer dated 22/11/2021	As per present CTO		After expansion		Remarks
			Configuration	Capacity	Configuration	Capacity	
		1.5 MTPA (Billet Caster)	1x1.5 MTPA	1.5 MTPA	-	1.5 MTPA	--
8.	Plate Mill	1.5 MTPA	Not implemented	-	-	-	Earlier envisaged, now dropped.
9.	HRM	8.5 MTPA	1x5.0 MTPA 1x3.5 MTPA	8.5 MTPA	<b>1x 4.5 MTPA</b>	13 MTPA	Proposed mill (part of CSP-2, 4.5 MTPA)
10.	Bar mill	1.4 MTPA	1x1.4 MTPA	1.4 MTPA	1x1.4 MTPA	1.4 MTPA	No change
11.	CRM (Hot rolled Skin pass+Cold Rolled full hard coil +Hot rolled pickled & oiled coil)	2.5 MTPA	1.2 MTPA	1.2 MTPA	1.2 MTPA HRGO + CRM	3.1 MTPA	Under implementation. No change proposed.
12.	Galvanizing complex (Hot rolled)	0.6 MTPA					
13.	Electrical Steel CRGO line	0.4 MTPA		-	-	-	Earlier envisaged, now dropped.
14.	Tin Plate Mill	0.4 MTPA	Not implemented	-	-	-	Earlier envisaged, now dropped.
15.	Colour Coating Plant	0.5 MTPA	Not implemented	-	-	-	Earlier envisaged, now dropped.
16.	Lime/Dolo Plant	3600 TPD	3x600 + 3x600 TPD	3600 TPD	3x600 + 3x600 + <b>2x800 TPD</b>	5200 TPD	Installation of new 1600 TPD Calcining plant proposed.
17.	Oxygen Plant	7600 TPD	2x2200 + 1x1260 + 1000 TPD	6660 TPD	2x2200 + 1x1260 +1x1000+ <b>1x5000 TPD</b>	11660 TPD	Installation of new 5000 TPD Oxygen plant proposed.
18.	Captive Power (Gas based)	600 MW	1x55 MW + 1x175 MW	230 MW	1x55 MW + 1x175 MW + <b>1x300 MW</b>	530 MW	Installation of new 300 MW Gas based CPP proposed.

Sl. No.	Facilities	Existing facilities as per EC dated 25/08/2015 and subsequent amendment dated 16/06/2020 and EC transfer dated 22/11/2021	As per present CTO		After expansion		Remarks
			Configuration	Capacity	Configuration	Capacity	
19.	Energy recovery based power generation	118 MW	TRT: 1x12 + 1x37.25 MW CDQ: 1x70 MW	118 MW	TRT: 1x12 + 1x37.25 MW + <b>1x36 MW</b> CDQ: 1x70 MW	155.25 MW	New TRT of 36 MW proposed along with new BF.
20.	Solid waste incinerator	250 kg/hr	1x250 kg/hr	250 kg/hr	1x250 kg/hr	250 kg/hr	Implemented, No change.
21.	Township	150 acres	-		127.33 acres		No change



## Action plan as per MoEF&amp;CC O.M. dated 30/09/2020:

Sl. No.	Area	Name of Activity	Physical Target	Year of Implementation after Project Completion			Total Budget in Rs. Crores	Target date of completion
				1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Opportunities for Education & Employment	Establishment of training centres for rural women development (Self Help Groups-SHGs)	40 Nos. (group)	15	15	10	2	31.12.2028
2		Skill Development Centre for local youth	1 no.	-	1	-	15	31.12.2028
3		Establishment of Nursing College	1 no.	-	1	-	10	30.06.2027
4	Roads	Paved road Construction & repairing in and around the plant (Improving mainstream access roads of outside the plant & nearby villages)	25 km	5	10	10	20	31.12.2027
5	Drinking water facilities	Providing Drinking water to 14 Gram Panchayats by providing Water Filtration units. (We have already laid down a dedicated pipeline (400 mm dia) ~ 30 km for supplying fresh water from Patansai to Dolvi plant for villagers)	14 Gram Panchayats	5	5	4	10	30.06.2028
6	Environment	Waste Management	11 Gram Panchayats	3	4	4	10	31.12.2026

Sl. No.	Area	Name of Activity	Physical Target	Year of Implementation after Project Completion			Total Budget in Rs. Crores	Target date of completion
				1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
		Facility for nearby villages						
7	School and Sports	Construction of modern Higher secondary school with sports facilities covering 15 gram panchayats under Pen and Alibag taluka along with plantation	1 No.	-	1	-	30	31.12.2028
8		Construction of 15 New School Buildings with sports ground development with all facilities and equipped with modern digitization in Indirect Impact Zone areas viz.Bori, Shirki, Masad, Vashi, Vad hav, Borze, Div, Ambapur, Pezari, Kasu, Amtem, Kurdus	15 Nos.	4	5	6	10	30.06.2028
9		Construction of Renovation of 25 Existing schools with sports ground development with all facilities and equipped with modern digitization in Indirect Impact	25 Nos.	5	10	10	10	30.06.2028

Sl. No.	Area	Name of Activity	Physical Target	Year of Implementation after Project Completion			Total Budget in Rs. Crores	Target date of completion
				1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
		Zone areas viz.Bori, Shirki, Masad, Vashi, Vad hav, Borze, Div, Ambapur, Pezari, Kasu, Amtem, Kurdus						
10	Support to Fishing communities for livelihood	Construction of Fishing ponds and Supply of fish seeds	20 Nos.	6	8	6	2	30.06.2028
11		Construction of Fish Market	2 Nos.	1	-	1	1	31.12.2028
12		Construction of Fish drying Shed	10 Nos.	4	3	3	3	31.12.2028
13	Plantation	Mangrove and plantation	20 hectare	8	7	5	2	31.12.2028
14	Support to Farmers	Construction of vegetable market sheds	10 Nos.	4	3	3	5	30.06.2028
15	Model Villages	Model villages of direct Impact Zone at group gram panchayats viz. Wadkhali, Dolvi, Karav, Bori and Shabaz by installing of solar street lights, construction of RCC roads, community centre, public water purifier system, tree plantation, RWH, sanitary toilets, smart school, drainage system etc.	04 Gram Panchayats	1	2	1	40	31.12.2028

Sl. No.	Area	Name of Activity	Physical Target	Year of Implementation after Project Completion			Total Budget in Rs. Crores	Target date of completion
				1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
16	Health	Upgradation of infrastructure at Primary Health Centres	3 Nos.	1	1	1	5	31.12.2028
<b>TOTAL BUDGET for PROJECT</b>						<b>175</b>		

