



सत्यमेव जयते

File No: J-11011/868/2008-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 01/08/2025



To,

M/s. JINDAL SAW LIMITED
Jindal centre, 12 bhikaiji cama place,
NEW DELHI, DELHI, 110066
Email: jindalsaw001@gmail.com

Subject: Proposed expansion up to 20% from existing plant capacity of blast furnace-1&2 (5.8 to 6.96 Lakh TPA), ductile iron (DI) pipe plant (5.8 to 6.96 Lakh TPA), sinter plant-1&2 (10.40 to 12.48 Lakh TPA) and no change in CPP capacity (21290 KVA DG Sets) & ASU capacity (110 TPD) by M/s Jindal SAW Limited, located at Village: Samaghogha, Taluk: Mundra, District: Kutch, Gujarat - Grant of prior Environmental Clearance under para 7(ii) of EIA Notification, 2006 - Reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/GJ/IND1/542641/2025 dated 25/06/2025 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 :

(i) EC Identification No.	EC25A1005GJ5286419N
(ii) File No.	J-11011/868/2008-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous)
(vi) Sector	Industrial Projects - 1 Proposed expansion up to 20% from existing plant capacity of blast furnace-1&2 (5.8 to 6.96 Lakh TPA), ductile iron (di) pipe plant (5.8 to 6.96 Lakh TPA), sinter plant-1&2 (10.40 to 12.48 Lakh TPA) and no change in CPP capacity (21290 KVA DG Sets) & ASU capacity (110 TPD), at Village: Samaghogha, Taluk: Mundra, District: Kutch, Gujarat.
(vii) Name of Project	

(viii) Name of Company/Organization	JINDAL SAW LIMITED
(ix) Location of Project (District, State)	KACHCHH, GUJARAT
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The proposed project activity is listed at S. No. 3(a) Metallurgical Industries (Ferrous & Nonferrous) under Category 'A' of the schedule of the EIA Notification, 2006 and being appraised at the Central Level.

4. The proposal was considered during 7th EAC (Industry-1) Meeting held on 9th July, 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 7th EAC (Industry-1) Meeting held on 9th July, 2025, inter-alia, deliberated the following:

i. The instant proposal is for expansion up to 20% from existing plant capacity of Blast Furnace (5.8 to 6.96 Lakh TPA), Ductile iron (DI) Pipe Plant (5.8 to 6.96 Lakh TPA), Sinter plant (10.40 to 12.48 Lakh TPA), no change in DG sets capacity (21290 KVA) & ASU capacity (110 TPD) under the provisions of para 7(ii) of EIA Notification, 2006 [OM dated 11.04.2022].

ii. The EAC deliberated on the justification provided by the Project Proponent for appraisal of instant proposal under para 7(ii) of EIA Notification, 2006 in pursuance to the Ministry's O.M. dated 11.04.2022 and found it satisfactory. Further, since PP has proposed expansion upto 20% with respect to amalgamated Environmental Clearance granted on 20.05.2025 and considering the provisions mentioned in the O.M. dated 11.04.2022, the EAC agreed to apprise the proposal for expansion for the proposed project in the instant case.

iii. The project initially obtained Environmental Clearance from MoEF&CC vide File No. J11011/868/2008-IA-II (I), dated 26th November, 2009 for expansion involving the Blast Furnace (BF) capacity from 0.25 MTPA to 0.30 MTPA, setting up a new Mini Blast Furnace (0.28 MTPA), a Steel Melting Shop with an Energy Optimizing Furnace (EOF-1x35 TPH), Ladle Refining Furnace (LRU-1x35 TPH), Vacuum Degasser Unit (VDU-1x35 TPH), and Continuous Caster Machine (CCM-1x35 TPH) to achieve a total billet production of 0.28 MTPA, along with a new Air Separation Unit (110 TPD) and a 4 MW Captive Power Plant (CPP) based on BF gas. The EC also approved the extension of the project area from 90.06 ha (225 acres) to 126.32 ha (312.14 acres). Further, the PP obtained EC from SEIAA, Gujarat vide Letter No. SEIAA/GUJ/EC/3(a)/122/2011, dated 23rd June, 2011 for establishing a 0.225 MTPA Small Diameter Pipe (SDP) plant within the existing project area of 126.32 ha. Further, MoEF&CC vide J-11011/868/2008-IA-II(I) dated 20.05.2025 granted amalgamation of ECs issued from MoEF&CC dated 26.11.2009 & SEIAA dated 23.06.2011. The details of the CTO is at relevant para above.

iv. 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.

v. 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.

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 criteria specified under 'Clause -9, Chapter 3 – Criteria For Establishment Of Industrial Plant' of the G.S.R 85(E) dated 30th January, 2025, 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 found the submission satisfactory for further appraisal of the proposal.

viii. PP submitted that total land envisaged (as per amalgamated EC dated 20.05.2025) is 126.32 Ha which is under the possession of the company. The proposed expansion will be carried out within the existing plant premises. No additional land is required for expansion of proposed project.

ix. As reported, Samaghogha habitation from plant site is at 667 m from the project site along with other sensitive areas 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. It is reported that Phot Nadi/Suraai River is at a distance of 0.6 km in East of project site along with other water bodies within the study area of the project site. The EAC opined that a 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.

xi. Existing water requirement is 4958 m³/day, which is met from GWIL, Adani Ports and Special Economic Zone Limited and Ground water. Water requirement subsequent to the proposed project is estimated at 6766 m³/day. Existing water approval is 8600 KLD (8.6 MLD) hence, adequate water approval is available. The EAC deliberated on the technical justification of water on proposed water requirement for the 20% expansion and opined that PP shall take necessary steps to reduce water consumption by various water conservation methods and conduct regular water audits to ensure effective water utilization.

xii. The Committee deliberated on the baseline data, incremental Ground Level Concentrations (GLCs) due to the proposed project, and the corresponding pollution load assessment as presented. It was observed that there would be a marginal increase in the pollution load. After detailed discussion, the EAC found the pollution load assessment submitted by the Project Proponent/ Consultant to be satisfactory. Hence, the Committee agreed that the proposal may be considered for appraisal under para 7(ii) of the EIA Notification, 2006. The EAC also noted that PP shall be required to meet the PM emission levels of 30mg/Nm³ in respect of all processing stacks as a uniform measure, and requisite update of pollution control equipment may be made, accordingly.

xiii. It is observed that as per the Wildlife Amendment Act, 2022 there are 9 nos of schedule-I species present in the study area i.e. Indian Fox, Jackal, Cobra, Indian Python, Rat snake, Russels viper, Peacock, River tern, Steppe Eagle. The wildlife conservation plan for Schedule-1 species present in buffer zone has been approved by the CWLW Gandhinagar vide letter No.WLP/B/32/6981-83/2024 dated 11/02/2025. Total cost of the approved plan is Rs 30 Lakh and activities are habitat improvement, training and monitoring. PP has deposited Rs 13 Lakh and informed the DCF Bhuj on 27.5.2025. The EAC opined that the recommendations of the approved plan shall be strictly implemented in consultation with the State Forest Department.

xiv. The Committee also deliberated on the earlier public hearing issues and the status of compliance of action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.

xv. 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 moitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.

xvi. The PP has submitted that the existing green belt has been developed in 38.51 ha area which is about 30.49 % of the total project area of 126.32 ha with total sapling of 2,60,000 Trees. Proposed greenbelt will be developed in 3.19 ha which is about 2.52 % of the total project area. Thus, total of 41.70 area (33.01 % of total project area) will be developed as

greenbelt. Total no. of 7975 saplings will be planted and nurtured in 3.19 hectares in 3 years. The EAC deliberated on the greenbelt plan and is of the opinion that greenbelt shall be completed within a period of 1 year and maintained as per CPCB norms.

xvii. The EAC deliberated on the certified compliance report issued by the Regional Office (RO) of MoEF&CC and found it satisfactory.

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

xix. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.

xx. 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.

xxi. 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.

xxii. 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 for grant of Environment Clearance under the provisions of para 7(ii) of EIA Notification, 2006.

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 grant of EC is 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 grant of EC 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. hereby decided to grant Environment Clearance for instant proposal of M/s. Jindal Saw Limited under the Para 7(ii)(a), read with OM dated 11-04-2022, for upto 20% expansion as per 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 Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, Gandhinagar - 382010. Gujarat.
2. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office, Gandhi Nagar A wing- 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar-382010
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Chief Wildlife Warden, Forests & Environment Department, Government of Gujarat, A/1, Aranya Bhavan, Opp.St. Xaviers School, Near Ch-3 Circle, Sector -10, Gandhinagar.

5. The Chairman, Gujarat Pollution Control Board Paryavaran Bhavan, Sector-10A, Gandhinagar 382010 - with a request to initiate action in line with the provisions of OM dated 14-01-2025

6. The Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
7. The District Collector, Collector Office, 1st Floor, Jilla Seva Sadan, Saru Section Road, Jamnagar – 361002.
8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
9. 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	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.
1.2	The project proponent shall comply with all the environmental protection measures and safeguards

S. No	EC Conditions
	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.
1.4	As reported, Samaghogha habitation from plant site is at 667 m from the project site along with other sensitive areas 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	It is reported that Phot Nadi/Suraai River is at a distance of 0.6 km in East of project site 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. Also, as committed, PP shall monitor the dust fall in River Suraai during pre and post monsoon season.
1.6	Existing water requirement is 4958 m ³ /day, which is met from GWIL, Adani Ports and Special Economic Zone Limited and Ground water. Water requirement subsequent to the proposed project is estimated at 6766 m ³ /day. Necessary permission shall be obtained. PP shall take necessary steps to reduce water consumption by various water conservation methods and conduct regular water audits to ensure effective water utilization.
1.7	Three tier Green Belt shall be developed and maintained in atleast 33% of the project area, within a period of 1 year, of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
1.8	PP shall be required to meet the PM emission levels of 30mg/Nm ³ in respect of all processing stacks, and undertake update of pollution control equipment, as may be required.
1.9	PP shall include measurement of VOCs, along with other parameters, under the ambient air quality monitoring plan.
1.10	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the 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 MeriLiFE portal at (https://merilife.nic.in)
1.11	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented amounting to Rs.6.96Crores (as mentioned in EIA Report). The

S. No	EC Conditions
	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.
1.12	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.
1.13	PP shall implement the skill development programs, in alignment with relevant Government initiatives/ programmes (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. 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.
1.14	PP shall Install CO sensors with alarms at strategic locations in the Plant.
1.15	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.
1.16	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
1.17	The project proponent shall undertake an annual assessment of the presence of heavy metals in the Blast Furnace (BF) slag. The analysis shall be conducted using standard protocols, and the results shall be used to inform safe slag utilization and disposal practices. The data shall also be utilized to monitor trends and implement appropriate corrective measures, if necessary, to ensure environmental and human health safety.
1.18	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 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.
1.19	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.

S. No	EC Conditions
1.20	Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14-01-2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12-11-2024 through which projects requiring prior EC were exempted from requirement of CTE.

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 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 and at quenching towers 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.

S. No	EC Conditions
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.
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	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm ³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
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.

3. Air Quality Monitoring And Preservation In Case Of Di Pipe

S. No	EC Conditions
3.1	Ductile Iron (DI) plant shall have the following provisions: a. Bag filter for Zn coating and Mg

S. No	EC Conditions
	converter area. b. Wet scrubbers in paint and bitumen coating area. c. Bag Filter in Cement lining area. d. PTFE dipped bags shall be used in the plant. e. PM emissions from BF in Zinc coating area shall be 5 mg/Nm ³ . f. ETP with recycling facility shall be included.

4. Air Quality Monitoring And Preservation In Case Of Bof

S. No	EC Conditions
4.1	Basic Oxygen Furnace (BOF) gas shall be cleaned dry

5. Water Quality Monitoring And Preservation

S. No	EC Conditions
5.1	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.
5.2	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.
5.3	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.
5.4	Water meters shall be provided at the inlet to all unit processes in the steel plants.
5.5	The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
5.6	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.
5.7	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.
5.8	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

6. Noise Monitoring And Prevention

S. No	EC Conditions
6.1	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.
6.2	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.

7. Energy Conservation Measures

S. No	EC Conditions
7.1	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
7.2	Restrict Gas flaring to < 1%.
7.3	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;
7.4	Provide LED lights in their offices and residential areas.

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.

9. Waste Management

S. No	EC Conditions
9.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
9.2	Kitchen waste shall be composted or converted to biogas for further use.
9.3	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.
9.4	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 https://cpcb.nic.in/technical-guidelines-3/ . 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

S. No	EC Conditions
	photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
9.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
9.6	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.

10. Waste Management In Case Of Sinter Plant

S. No	EC Conditions
10.1	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.
10.2	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
10.3	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.

11. Green Belt

S. No	EC Conditions
11.1	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.
11.2	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.
11.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

12. Public Hearing And Human Health Issues

S. No	EC Conditions
12.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and

S. No	EC Conditions
	Disaster Management Plan shall be implemented.
12.2	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.
12.3	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.
12.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

13. Environment Management

S. No	EC Conditions
13.1	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.
13.2	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.
13.3	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.
13.4	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.

14. Miscellaneous

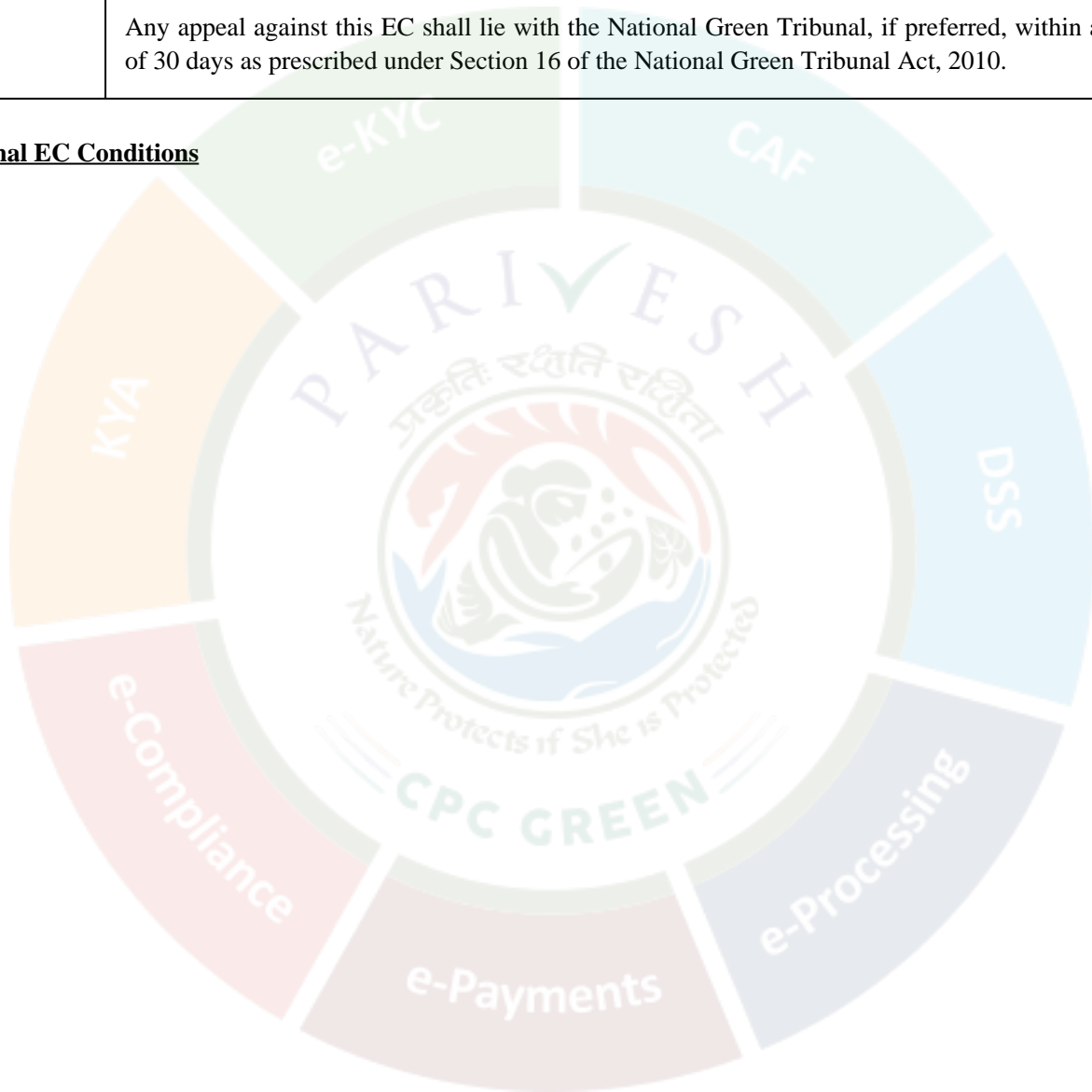
S. No	EC Conditions
14.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in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

S. No	EC Conditions
	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.
14.3	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.
14.4	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.
14.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
14.6	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.
14.7	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.
14.8	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.
14.9	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.
14.10	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.
14.11	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.
14.12	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).
14.13	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.
14.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above

S. No	EC Conditions
	conditions is not satisfactory.
14.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
14.16	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.
14.17	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
a.	Terms of Reference for undertaking EIA study	Not Application as the proposed project is under the provisions of para 7(ii) of EIA Notification, 2006.
b.	Period of baseline data collection	March 2024 to May 2024
c.	Date of Public Consultation	Public hearing has been exempted for this project in pursuance to the Ministry's O.M. dated 11.04.2022 for appraisal of instant proposal under para 7(ii) of EIA Notification, 2006.
d.	Action plan to address the PH issues	As per the earlier granted Environmental Clearance, the PH Action for the commitment made during the public hearing have been implemented.
e.	Location of the project	Village: Samaghogha, Taluk: Mundra, District: Kutch, Gujarat
f.	Total land	Total land envisaged (as per amalgamated EC dated 20.05.2025) is 126.32 Ha.
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	<ul style="list-style-type: none"> The existing and proposed project expansion is located at Survey Nos. 286, 287, 288/1, 288/3, 292, 293, 294/1, 294/2, 295, 296/1, 296/2, 297, 298, 300, 301, 316/2, 317, 318, 319, 320, 321, 322, 323, 324, 325/1, 325/2, 326, 301, 316/1, 316/2, 325/1, 325/2, 334/1, 335, 336/1, 336/2, 336/3, 337, 339/1, 369/1, 713/17, 713/52, and 713/53. Total land is under the possession of the company. The proposed expansion will be carried out within the existing plant premises. No additional land is required for expansion of proposed project.
h.	Existence of habitation & involvement of R&R, if any	<p><u>Habitation:</u> Project Site: No habitation at project site.</p> <p><u>Study Area:</u> Samaghogha habitation from plant site is at 667 m from the project site along with other sensitive areas within the study area of the project site.</p> <p><u>R & R :</u> Not involved</p>
i.	Elevation of the project site	30 M above mean sea level
j.	Involvement of Forest land if any.	The proposed project does not involved/fall in any forest land.
k.	Water body exists within	<p><u>Water Bodies:</u> Project Site: No water body at project site.</p>

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	the project site as well as study area	<p>Study area:</p> <table border="1"> <thead> <tr> <th rowspan="2">S. No</th> <th rowspan="2">Name of Water Body</th> <th>Distance (Km)</th> <th>Direction</th> </tr> <tr> <th colspan="2">Distance from Project boundary</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Karagoga Dam</td> <td>3.36 km</td> <td>NE</td> </tr> <tr> <td>2.</td> <td>River Bhukhi</td> <td>4.32 km</td> <td>E</td> </tr> <tr> <td>3.</td> <td>Phot Nadi/Suraai River</td> <td>0.6 Km</td> <td>E</td> </tr> <tr> <td>4.</td> <td>Nandi Sarovar</td> <td>2.62 Km</td> <td>NNW</td> </tr> <tr> <td>5.</td> <td>Pond near Borana</td> <td>3.0 Km</td> <td>SSW</td> </tr> </tbody> </table>	S. No	Name of Water Body	Distance (Km)	Direction	Distance from Project boundary		1.	Karagoga Dam	3.36 km	NE	2.	River Bhukhi	4.32 km	E	3.	Phot Nadi/Suraai River	0.6 Km	E	4.	Nandi Sarovar	2.62 Km	NNW	5.	Pond near Borana	3.0 Km	SSW
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l.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<p>No ESZ / ESA / National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve / Elephant Reserve exist within 10 Km. radius of the plant site</p> <p>List of Reserved forest:</p> <table border="1"> <thead> <tr> <th rowspan="2">S. No</th> <th rowspan="2">Name of Protected/Reserved Forest</th> <th>Distance (Km)</th> <th>Direction</th> </tr> <tr> <th colspan="2">Distance from Project boundary</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>RF</td> <td>4.2 km</td> <td>S</td> </tr> <tr> <td>2.</td> <td>RF</td> <td>4.7 km</td> <td>S</td> </tr> <tr> <td>3.</td> <td>Baroi RF</td> <td>9.3 km</td> <td>SE</td> </tr> <tr> <td>4.</td> <td>Navinal RF</td> <td>9.6 km</td> <td>SW</td> </tr> <tr> <td>5.</td> <td>Mundra Dhoa RF</td> <td>9.8 km</td> <td>SW</td> </tr> </tbody> </table>	S. No	Name of Protected/Reserved Forest	Distance (Km)	Direction	Distance from Project boundary		1.	RF	4.2 km	S	2.	RF	4.7 km	S	3.	Baroi RF	9.3 km	SE	4.	Navinal RF	9.6 km	SW	5.	Mundra Dhoa RF	9.8 km	SW
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m.	Project cost	Existing capital cost of project was Rs.2500 Crores. The capital cost of the proposed project is Rs 463.78 Crores																										
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o.	Employment opportunity	Manpower : Existing: 6827, Expansion:400, Total: 7227																										
p.	Water and Power requirement	<p>Existing Water requirement is 4958 m³/day, which is met from GWIL. Water requirement subsequent to the proposed project is estimated at 6766 m³/day. Existing water approval is 8600 KLD (8.6 MLD) hence, adequate water approval is available.</p> <p>Existing power requirement of 38 MW is obtained from GEB grid (7 MW renewable from Adani Green and 11 MW fossil on 24 hr basis) and WHRPP Pargpur (20 MW). The power requirement after the proposed project is estimated as 52 MW, will be met from GEB grid (7 MW renewable from Adani Green and 10 MW fossil on 24 Hr basis) and WHRPP Pargpur (35 MW).</p>																										
q.	CPA/SPA	The plant site is not located in CPA/SPA																										

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

SN	Facility / Configuration	Existing	Proposed	Total	Remarks
1	Blast Furnace Unit (Lakh TPA)	5.8	1.16	6.96	20% Expansion
2	Sinter Plant (Lakh TPA)	10.40	2.08	12.48	20% Expansion
3	DI Pipe Facility (Lakh TPA)	5.8	1.16	6.96	20% Expansion
4	CPP (DG Sets KVA)	21,290	0	21,290	No change
5	Air Separation Unit (ASU) (TPD)	110	0	110	No change



Socio-Economic Development Plan as per OM dated 30.09.2020 along-with physical targets and 3year timeline.

Need based village development plan by JSAW, Samaghogha, Mundra Gujarat.

S. No.	Physical activity and action plan		Year of implementation (INR Lakh)			Total Expenditure. (INR Crores)
	Name of the Activity	Physical Targets	1 st	2 nd	3 rd	
Village adoption programme which includes 6 Villages namely Samaghogha, Kapaya Mota, Bhujpar, Baraya, Pragpar, Borara.						
1	Plantation	Plantation with fruit and medicinal trees will be undertaken in Govt School and Villages, Total 6000 Trees	15	15	15	0.45
2	Health & Medical Facilities	<ol style="list-style-type: none"> 1. Repairing of Existing Govt. PHC, providing medical equipment's, 5 Beds, furniture, drinking water storage tank and RO system in the village Bhujpur. 2. Ambulance facilities as required by the villagers for emergency cases will be arranged from plant Dispensary upto Mundra/Gandhidham. 3. Medical camps in nearby villages on quarterly basis for infants, pregnant women's, old age peoples and all villages with free medicines. 4. Mosquitoes fogging in the nearby villages during the monsoon. 5. Free Medical facilities for villagers at JSAW-Occupational Health Care. 	30	50	60	1.4
3	Education and Sports promotion	<ol style="list-style-type: none"> 1. Drinking water storage tank and RO system. 2. Under, youth scholarship programme, Meritorious poor students will be provided scholarship for technical education for all 6 villages students (60 Students). 3. Financial help to volunteers providing their 	31	50	60	1.41

S. No.	Physical activity and action plan		Year of implementation (INR Lakh)			Total Expenditure. (INR Crores)
	Name of the Activity	Physical Targets	1 st	2 nd	3 rd	
		<p>services in village schools. Total four teachers per month to promote rural education.</p> <p>4. Government scheme works directed by local administration on need basis like assisting local army & BSF units in plantation of trees, PM relief fund for martyrs, helping veterans etc.</p> <p>5. Construction of new school building for Shree Manav Seva Trust Zarpara.</p> <p>6. Assistance to non-government secondary schools.</p> <p>7. Donation of notebooks & school bags, warm sweaters and gifts at science fairs in schools in Samaghogha & Pragpar villages.</p>				
4	Water Harvesting	Government works like deepening of ponds, groundwater recharging borewells, canal repairs etc	10	25	25	0.6
5	Infrastructure Development	<p>1. Furniture for rural development, toilets, bathrooms, gardens, children parks, community gardens & cowsheds etc.</p> <p>2. Cement benches at cremation centres in Samaghogha, Mundra, Bhujpur, PHC Bhujpur, CHC Mundra.</p> <p>3. Capital outlay on education, sports, arts & culture Donation of items like water coolers, RO plants, computers, printers, furniture, music systems, etc for use in schools / primary health centres / community centres.</p>	25	50	50	1.25
6	Agriculture and Animal Husbandry	1. Distribution of fodder for cattle in eleven villages in	20	30	30	0.80

S. No.	Physical activity and action plan		Year of implementation (INR Lakh)			Total Expenditure. (INR Crores)
	Name of the Activity	Physical Targets	1 st	2 nd	3 rd	
		<p>the surrounding areas as per the orders received from SDM office - Mundra.</p> <p>2. Providing green fodder, medicines or any other financial assistance for treatment of stray cattle & other animals.</p>				
7	Skill development and Women Empowerment	<p>1. Skill development center will be constructed in Village Samaghogha for all vocational training of nearby village youths.</p> <p>2. Women and old age people engagement for health and hygiene.</p> <p>3. Under skill development plan, company will arrange green skills among youth.</p> <p>4. Women empowerment for self-employment through SHG for capacity building to equip with skills relevant to livelihood and business through NGO.</p> <p>5. Engagement of old age people for green credits program. Awareness on green drive and ban on single use plastic, promote green credits programs.</p> <p>6. The entire programme will support domestic item production with engagement of local women's in plastic free movement.</p>	25	40	40	1.05
8	Control of Emission	<p>Considered latest pollution control measures as per the CREP guidelines and sectorial emission to meet the prescribed norms. Cost included in part of project cost.</p>	-	-	-	-
Total			156	260	280	6.96