



सत्यमेव जयते

File No: J-11011/479/2006-IA-II(I)

Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 23/07/2025



To,

M/s. HINDUSTAN ZINC LIMITED, ZINC SMELTER DEBARI
Debari and Bichhri, Tehsil Girwa
District UDAIPUR, RAJASTHAN - 313024
Email: sadhna.verma@vedanta.co.in

Subject: **Proposed Expansion Of Zinc Smelter (1,00,000 TPA To 1,20,000 TPA) through Modernization within the existing premises of Debari Zinc Smelter under clause 7(ii) of EIA Notification 2006 amended from time to time by M/s. Hindustan Zinc Limited, located at Village: Debari and Bichhri; Tehsil: Girwa; District: Udaipur, Rajasthan- -Grant of Environmental Clearance under clause 7(ii) of EIA Notification 2006-Reg**

Sir/Madam,

This refers to your proposal no IA/RJ/IND1/488353/2024 dated 19.09.2024 along with copy of Addendum EIA/EMP report, Forms (Part A, B and C) and certified compliance report seeking Environment Clearance (EC) under the provisions of para 7(ii) of the EIA Notification, 2006 for the project mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A1005RJ5523282N
(ii) File No.	J-11011/479/2006-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
(vii) Name of Project	Proposed Expansion of Zinc Smelter (1,00,000 TPA to 1,20,000 TPA) through Modernization within the existing premises of Debari Zinc Smelter under clause 7(ii) of EIA Notification 2006 amended from time to time At Villages: Debari and Bichhri, Tehsil: Girwa, District: Udaipur (Rajasthan)

(viii) Name of Company/Organization	HINDUSTAN ZINC LIMITED, ZINC SMELTER DEBARI
(ix) Location of Project (District, State)	UDAIPUR, RAJASTHAN
(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 and Non-ferrous) under Category “A” of the schedule of the EIA Notification, 2006, and appraised at Central Level.

4. The instant proposal was initially considered during the 67th EAC meeting 14th – 16th October, 2024 wherein the Committee deferred the proposal for additional information. Based on the ADS reply the proposal further considered in the 1st re-constituted EAC Meeting held during 3rd,4th and 7th April 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 1st Meeting held during 3rd,4th and 7th April 2025, inter-alia, deliberated the following:

i. The instant proposal is for expansion of Zinc Smelter by 20% (1,00,000 TPA to 1,20,000 TPA) through Modernization within the existing premises of Debari Zinc Smelter under 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 prepared the Addendum EIA/EMP Report for 20% expansion under para 7(ii) of EIA Notification, 2006 [OM dated 11.04.2022], the EAC agreed to apprise the proposal for expansion for the proposed 20% in the existing facility.

iii. The existing project was accorded environmental clearance vide Ir. No. F.No.J-11011/479/2006-IA.II(I) dated 19.03.2008. Consent to Operate for the existing unit was accorded by Rajasthan State Pollution Control Board vide Ir. No. 2022-2023/HDF/9282 dated 17.03.2023 31.03.2027. The validity of CTO is up to 31.03.2027.

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 addendum to the 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 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 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. The PP reported that as per the EC dated 19.03.2008 the total project area is 190.05 ha, out of which 5.85 ha area falls outside the physical the physical boundary of Plant area. Hence, total plant area considered for this project is 184.2 ha. (129 ha plant area + 55.2 ha colony area), which is under possession of M/s. Hindustan Zinc Limited. Out of the total plant area 76.28 ha (41.41%) area has already been developed under greenbelt/plantation. EAC noted that as per the OM dated 11-04-2022, the EC land cannot be changed. **Accordingly, the instant proposal shall be considered for total project area is 190.05 ha.**

ix. The PP further reported the following w.r.t. project land area:

- Initially, the Honourable Governor of the State of Rajasthan granted lease of 427 Acres (172.79 Ha) in 1962 for 99 years under the provisions of the Rajasthan Industrial Areas Allotment Rules, 1959, framed under Section 100 of the Rajasthan Land Revenue Act, 1956, which includes 98.74 hectares (244.01 Acres) vide lease dated 29.01.1962, 13.02 hectares (32.18 Acres) vide lease dated 26.03.1962 and 61.03 hectares (150.81 Acres) vide lease deed dated 26.03.1962 respectively. HZL commissioned the referred Zinc Smelter unit in 1968. Hindustan Zinc Limited, whilst being an erstwhile public sector undertaking, acquired additional land from nearby villages in and around the 1990s, for the purpose of its operations.
- Plant and colony was established in 1968, and being used for non-forest purpose before the Forest (Conservation) Act, 1980, came into effect, therefore Forest Clearance was not applicable for Zinc Smelter Debari.
- As per Hon'ble Supreme Court orders (State Of Bihar vs Banshi Ram Modi & Ors, 7.05.1985), "forest area which is broken up or cleared before the commencement of the Act, prior approval of the Central Government in terms of Section 2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 is not required and it would be required, when lease granted before the commencement of the said Act, is renewed after its coming into force. During the continuance of the lease period, the approval of the Central Government under Section 2 of the said Act is not required.
- In this case also, prior approval under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980, will only be required during renewal of Zinc Smelter Debari's lease i.e. 2061. At present, the lease of the unit is valid and in continuance.
- Environment Clearance (EC) for expansion of Zinc Smelter (80,000 TPA to 1,00,000 TPA) at Village: Debari, Tehsil: Girwa, District: Udaipur (Rajasthan) was granted by MOEFCC, New Delhi vide F.No.J-11011/479/2006-IA.II(I) 19.03.2008 for total land area of 190.05 ha. CTE for the same was obtained from RSPCB vide F.No. 12(30-86) RPCB/Gr II/49 dated 5.04.2008 followed by CTO vide Letter F: 12(30-86) RPCB/Gr II/2702 dated 17.09.2008. The plant is in operation as per renewed CTO obtained from RSPCB vide Order no. 2022-2023/HDF/9282 dated 17.03.2023 (Valid upto 31.03.2027).
- Subsequent to the above, M/s. Hindustan Zinc Limited proposed for the Expansion of Zinc Smelter (1,00,000 TPA to 1,40,000 TPA) through Modernization within the existing premises of Debari Zinc Smelter under clause 7(ii) of EIA Notification 2006 amended from time to time At Villages: Debari and Bichhri, Tehsil: Girwa, District: Udaipur (Rajasthan). While submitting the online application along with kml file of the Plant area on the Parivesh portal, it was found that:
 - Some part of land covering, security colony, substation, some plantation etc. is showing under forest land. Upon observing this discrepancy, for further verification of the referred land, we consulted DCF-Udaipur (North Region) and found a reflection of the same in the Decision Support System. This is contrary to the revenue records as are in place, since in the same, this land parcel as which is part of the lease deed awarded to HZL in 1962, for 99 years, is recorded in HZL's name.
 - After further enquiry with the revenue and forest departments it was found that the total area of Zinc Smelter Debari complex (Plant and Colony) comes out to be 184.2 ha (instead of 190.05 Ha mentioned in the EC letter). Remaining 5.85 Ha area falls outside the physical boundary Plant area (129 Ha) & Residential colony area (55.2 Ha). Hence, 184.2 Ha area is considered as projects area for this proposal Out of this 129 ha of plant area, as per the information available with Forest department, 1.77 ha of Khasara No. 4522 and 5.20 ha of Khasara No. 4523 falls under Kantiya Forest (total area – 292 ha), which was notified as reserve forest by Mewar Government on 27.12.1947.
 - Similarly, out of 55.2 ha. of colony area, 11.60 ha of Kasara No. 4509, 2.40 Ha. of Khasara No. 4510 and 2.46 Ha of Khasara No. 4511 falls under Panwadi Forest (total area 225 ha), which was notified as reserve forest by Mewar Government on 21.02.1943.
 - Whereas, Old revenue records of Sanwat 2051 (Year 1994) are showing above khasras No. 4522, 4523, 4509, 4510, 4511 as factory area.
 - It is to be noted that Hindustan Zinc Limited will maintain status quo as far as the claimed forest land is concerned, and no activities are proposed to or will be carried out in this area without obtaining requisite clarity on the discrepancy or necessary approvals for the same.

· The proposed expansion will be done within the existing plant premises. No additional land acquisition will be required for the proposed expansion.

x. The Member Secretary submitted that based on the observations made by EAC during earlier consideration of the project, the matter was referred to the FC division of the Ministry for seeking comments. The FC division has submitted that:

“The forest areas which are under continuous non-forestry use prior to the enactment of the Forest (Conservation) Act, 1980 will not require the approval of the central government to continue the said usage till the expiry of the lease granted. However, any fresh breaking up or clearing of forest land for any non-forest purpose or change in land-use/ expansion over forest land, would require the prior approval as per the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.”

Accordingly, PP was made aware about its obligation to obtain forest clearance during the appraisal in line with the comments of FC division mentioned above. The EAC also recommended that the PP should submit an undertaking regarding usage of Forest Land as per the provisions of the relevant statute, and directions/ guidelines issued by Competent Authorities from time to time.

xi. It is reported that Udai Sagar Lake (~1.0 km, SSW) has been listed as Wetland by State Wetland Authority, Rajasthan, 3 seasonal nallahs are passing through the plant site, which have run off water from the nearby hill in west direction during rains only. PP reported that NOC regarding the proximity of Udai Sagar Lake (~1.0 km, SSW) from the Project Site has been obtained from the Rajasthan State Wetland Authority vide letter no. No: P.6 (3) Env/2017/Part-2 dated 10.02.2025.

xii. Also, there are several sensitive areas within the study area of the project site. The EAC is of the opinion that PP shall prepare and strictly implement the environmental safeguard measures to minimise the impact of the project activities on these sensitive areas.

xiii. There are water bodies within study area of the project site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be implemented.

xiv. PP reported that this independent smelter currently utilizes raw materials from HZL's captive mines, with the possibility of sourcing from other companies in the future for zinc production. The project is interlinked with multiple mining and smelting operations, including expansions at Rampura Agucha, Rajpura Dariba, Zawar, and Sindesar Khurd underground mines in Rajasthan. It is also connected to major smelting complexes like Dariba, Chanderiya, and Pantnagar, along with a proposed Ammonium Phosphate Fertilizer Complex in Chittorgarh. These projects collectively contribute to lead, zinc, and silver production, along with beneficiation and captive power generation.

xv. The total water requirement after expansion will be 9046 KLD which is being/will be sourced from Mansi Wakal Dam/ STP Udaipur. The EAC deliberated on the water requirement and is of the opinion that PP shall obtain necessary permission from the Competent Authority.

xvi. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project noted that PM 2.5 and PM10 are reported high. The EAC opined that PP shall prepare and implement a project specific AAQ Management plan to minimise the levels of PM10 and PM2.5.

xvii. 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. The Committee also deliberated on the additionally proposed action plan for socio-economic development of the nearby area and found it satisfactory.

xviii. The EAC opined that PP shall implement skill development programs aligned 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. PP shall chalk out a detailed action plan and monitoring mechanism for the purpose, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.

xix. The Committee deliberated on the baseline data along with pollution load assessment reported and observed that there is minor increase in the air quality parameters after the proposed expansion. Accordingly, the EAC advised to plan mitigation measures accordingly. The PP should include these measures in the Environmental Management Plan (EMP).

xx. The PP reported that Existing greenbelt has already been developed in 76.28 ha which is about 41.41 % of the total project area of 184.2 ha., with total saplings of 1,50,000 Trees. The same will be maintained for the proposed expansion project. Local and native species are/will be planted to increase the density to 2500 trees/ha. Total numbers of 40700 saplings will be planted and nurtured in existing 76.28 ha in 3 years. The EAC deliberated on the greenbelt and is of the opinion that greenbelt shall be developed as committed.

xxi. The PP reported that Hindustan Zinc Limited (HZL) has filed a case [HZL vs. Nandram & Ors. (Case No. 117/204)] in the SDO/SDM Court, Girwa, Udaipur, under the Rajasthan Tenancy Act, 1955, seeking mutation and correction of revenue records for land parcels in Revenue Village Bichdi, Tehsil Kurabad, Udaipur. These lands were acquired by HZL, but the revenue records do not reflect the ownership. Apart from this, there are no other litigations, court orders, or notices under the Environment (Protection) Act, 1986, or relevant Air and Water Act sections against the project.

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

xxiii. The EAC deliberated on the certified compliance report of IRO and found it satisfactory.

xxiv. The EAC deliberated on the ADS reply submitted by the project proponent and found it satisfactory.

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

xxvi. 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.

xxvii. 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.

xxviii. 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 subject to uploading of written submission on the PARIVESH portal for grant of Environment Clearance under the provisions of para 7(ii) of EIA Notification, 2006 **for expansion of Zinc Smelter by 20% (1,00,000 TPA to 1,20,000 TPA) as detailed above** subject to the stipulation of specific conditions 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.

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. Accordingly, it is hereby decided to grant Environment Clearance for instant proposal of M/s. Hindustan Zinc Limited under the provisions of EIA Notification, 2006 subject to the following 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)
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Copy To

1. Secretary, Department of Environment, Government of Rajasthan, Secretariat, Jaipur.
2. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, A- 209 & 218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur - 304002
3. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. Chief Wildlife Warden, Govt. of Rajasthan, Van Bhawan, Vaniki Path, Jaipur -302005
5. **Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur - with a request to initiate action in line with the provisions of OM dated 14-01-2025**
6. Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
7. District Collector, :Udaipur ,District, Rajasthan.
8. Guard File/Record File/Monitoring File.

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 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	PP shall comply with the provisions of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 (as amended). Further, as committed, it shall not undertake any change in the Land Use of the forestland falling with the project site for the proposed expansion project or otherwise. Prior consultation with State Forest Department shall be made w.r.t. any proposal for change in landuse of the forestland within project site.
1.5	As reported, there are several 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.
1.6	PP shall comply with the conditions stipulated in the NOC, if any, from the State Wetland Authority as Udai Sagar Lake (-1.0 km, SSW) has been listed as Wetland by State Wetland Authority, Rajasthan, and 3 seasonal nallahs are passing through the plant site, which have run off water from the nearby hill in west direction. Further, due to presence of water bodies within study area of the project site, a robust and foolproof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
1.7	The total water requirement after expansion will be 9046 KLD which is being/will be sourced from Mansi Wakal Dam/ STP Udaipur. PP shall obtain necessary permission from the Competent Authority.

S. No	EC Conditions
1.8	PP shall prepare and implement a project specific AAQ Management plan to minimise the levels of PM10 and PM2.5.
1.9	Three tier Green Belt shall be maintained in at least 33% of the project area, as committed, along the project site 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 a width of 25 meters 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. PP shall practice geotagging of plant for better monitoring. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
1.10	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked 33% or 40% greenbelt area, as the case may be, 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 to the tune of Rs.35.27Crores shall be satisfactorily implemented as annexed. 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 and progress shall be submitted to the Regional Office of MoEF&CC. PP shall strictly comply with the timeline for completion of activities envisaged in the action plan of the earlier PH.
1.12	The project proponent shall undertake village adoption programme, as annexed, 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 skill development programs (like Mission LiFE, ODOP, GSDP etc.) aligned with relevant Government initiatives/ programmes 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). Periodic progress reports shall be maintained, and submitted to RO MoEFCC.
1.14	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.
1.15	PP shall implement the proposed mitigation measures for managing toxic elements such as mercury (Hg), cadmium (Cd), and nickel (Ni) as per the detailed mass balance study submitted. This shall include strict monitoring of source emissions, proper containment and treatment of hazardous waste, and prevention of environmental contamination through effective control measures.
1.16	PP shall undertake internal Environmental Audit of the plant through a recognized/ empanelled 3rd party Agency. The report shall be shared with concerned SPCB and MoEFCC RO, along with CPCB and MoEFCC (Industry-1 sector).

S. No	EC Conditions
1.17	PP shall ensure strict implementation of the approved management and disposal plan for spent electrolyte generated from the electrolysis process. This shall include proper storage, treatment, recycling, or disposal methods in compliance with applicable environmental standards and regulations to prevent contamination.
1.18	The proponent shall ensure the exclusive use of indigenous zinc concentrate to reduce dependency on imported raw materials and minimize environmental impact.
1.19	Sulfur Dioxide (SO ₂) scrubbing systems shall be installed to ensure SO ₂ emissions remain within prescribed CPCB/SPCB limits.
1.20	TSS, TDS and Heavy metals in wastewater, including zinc, cadmium, and lead, shall be monitored and treated as per prescribed standards. The records of the same shall be maintained.
1.21	A dedicated leachate treatment system shall be installed for managing trace heavy metal contamination in storage yards.
1.22	The Jarosite sludge shall be neutralized with hydrated lime and disposed off in secured landfill (SLF) inside the plant premises. ETP Sludge in the form of cake shall be recycled in the Moore cake treatment plant Waste/used of shall be sold to registered recyclers Valid membership to CHWMF shall be obtained.
1.23	Jarosite and leached residues generated from the smelting process shall be managed as per Hazardous Waste Management Rules, with appropriate safe disposal in secured landfills or utilization in cement industries.
1.24	Spent catalyst, slag, and sludge shall be disposed of in accordance with CPCB guidelines and shall not be stored beyond the prescribed limit.
1.25	Workers shall be provided with adequate Personal Protective Equipment (PPE) to prevent exposure to lead, zinc, and SO ₂ emissions. Regular medical examination and health monitoring of all the employees for Lead (Pb) and Cadmium (Cd) shall be carried out and if cases of presence of Lead (Pb) and Cadmium (Cd) are detected, necessary compensation shall be arranged under the existing laws. A competent occupational health physician shall be appointed to carry out medical surveillance Occupational health of all the workers shall be monitored for relevant parameters and records maintained as per Factory Act.
1.26	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 reoorted to RO MoEFCC on regular basis through the self compliance reporting mechanism.
1.27	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.

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 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.

S. No	EC Conditions
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. 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

S. No	EC Conditions
	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 steel plants.
3.5	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.
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. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	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.
4.2	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. Energy Conservation Measures

S. No	EC Conditions
5.1	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;
5.2	Provide LED lights in their offices and residential areas.

6. Waste Management

S. No	EC Conditions
6.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
6.2	Kitchen waste shall be composted or converted to biogas for further use.
6.3	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.
6.4	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 photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
6.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

7. Green Belt

S. No	EC Conditions
7.1	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.
7.2	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.
7.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

8. Public Hearing And Human Health Issues

S. No	EC Conditions
8.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
8.2	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.

S. No	EC Conditions
8.3	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.
8.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

9. Environment Management

S. No	EC Conditions
9.1	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.
9.2	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.
9.3	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.
9.4	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.

10. Miscellaneous

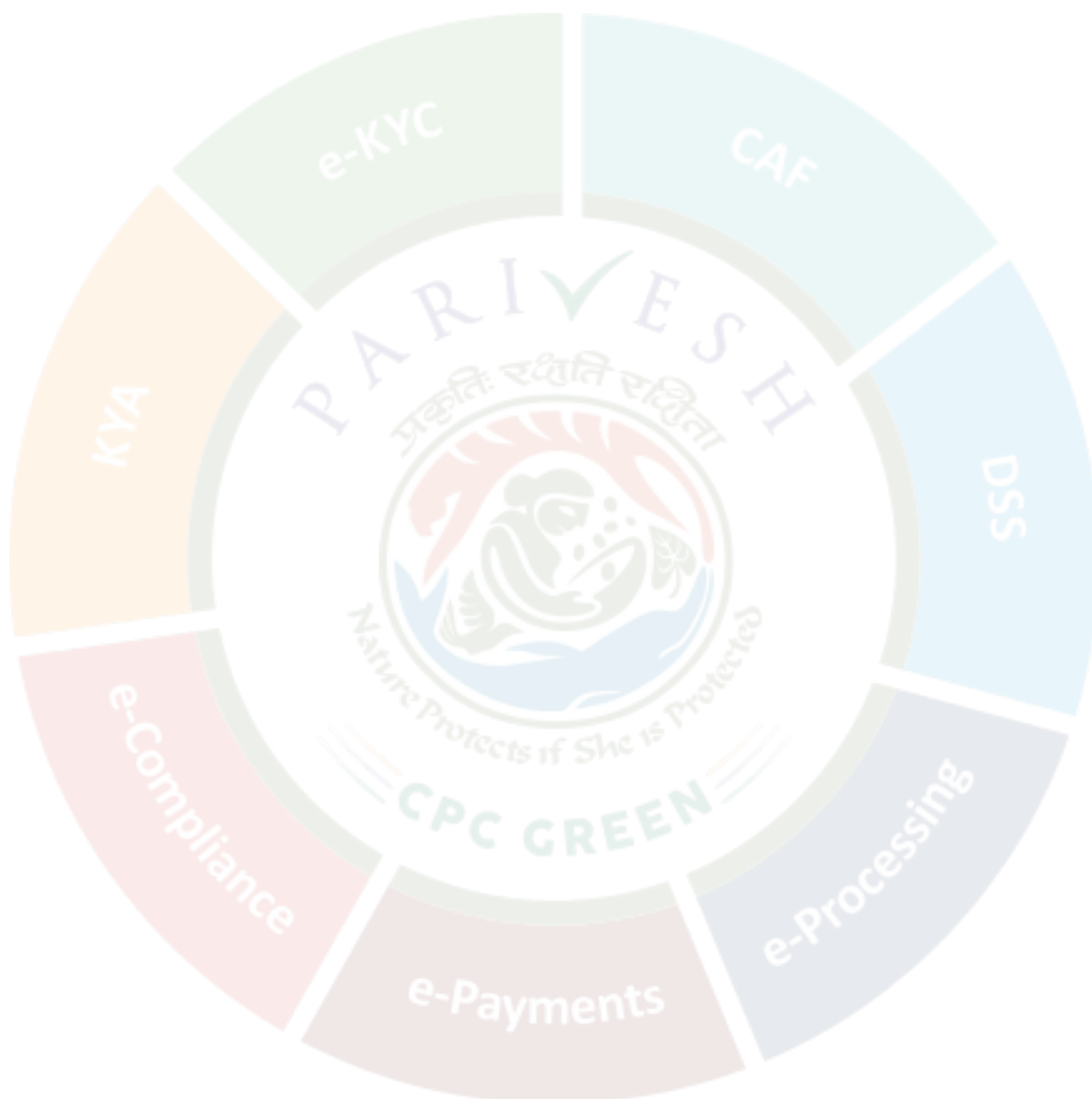
S. No	EC Conditions
10.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
10.2	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.
10.3	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

S. No	EC Conditions
	basis.
10.4	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.
10.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
10.6	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.
10.7	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.
10.8	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.
10.9	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.
10.10	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.
10.11	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.
10.12	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).
10.13	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.
10.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

S. No	EC Conditions
10.16	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.
10.17	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	proposal under clause 7(ii) of EIA Notification 2006												
b.	Period of baseline data collection	March to May 2022												
c.	Date of Public Consultation	proposal under clause 7(ii) of EIA Notification 2006												
d.	Action plan to address the PH issues	Additional need based activities detail proposed are attached as Annexure IV.												
e.	Location of the project	located at Village: Debari and Bichhri; Tehsil: Girwa; District: Udaipur, Rajasthan												
f.	Total land	Total plant area considered for this project is 184.2 ha. (129 ha plant area + 55.2 ha colony area), which is under possession of M/s. Hindustan Zinc Limited.												
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Complete land is under the possession of the company												
h.	Existence of habitation & involvement of R&R, if any	<p>Plant Site: No habitation exist within the plant site and the proposed expansion will be done within the existing plant premises, which is already under possession of the company, therefore, no R&R is applicable for the proposed expansion project.</p> <p>Study Area: Village falling near to the plant site are given as below:</p> <table border="1"> <thead> <tr> <th>Habitation</th><th>Distance (km)</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>Gowla</td><td>~ 0.4</td><td>North</td></tr> <tr> <td>Bichhri</td><td>~ 0.75</td><td>SE</td></tr> <tr> <td>Debari</td><td>~ 1</td><td>NE</td></tr> </tbody> </table>	Habitation	Distance (km)	Direction	Gowla	~ 0.4	North	Bichhri	~ 0.75	SE	Debari	~ 1	NE
Habitation	Distance (km)	Direction												
Gowla	~ 0.4	North												
Bichhri	~ 0.75	SE												
Debari	~ 1	NE												
i.	Elevation of the project site	553 to 610 m above mean sea level.												
j.	Involvement of Forest land if any.	Out of the total project area of 184.2 ha 160.77 ha is non forest land & 23.43 ha is forest land.												
k.	Water body exists within the project site as well as study area	<ul style="list-style-type: none"> • Udaisagar Lake (~1.0 km in SSW direction from Plant site) • Berach River (~1.5 km in SE direction from Plant site) • Udai Sagar Left Canal (~5.5 km in NE direction from Plant site) 												

S.No	Particulars	Details
		<ul style="list-style-type: none"> • Udai Sagar Right Canal (~1.5 km in ESE direction from Plant site) • Udai Sagar Middle Canal (~0.5 km in East direction from Plant site) • Karget Canal (~2.5 km in SSE direction from Plant site) • Dabok Pond (~3.0 km in ENE direction from Plant site) • Ahar Nadi (~3.5 km in SW direction from Plant site) • Vela Nala (~6.5 km in ENE direction from Plant site) • Khemlitalav (~8.0 km in NNE direction from Plant site) • Bagdara Talav (~8.0 km in SSW direction from Plant site) • Ganeshpura pond (~8.5 km in West direction from Plant site) • Gadela Nadi (~9.0 km in NNE direction from Plant site) <p>There are three seasonal nalas passing through the plant site, which have run off water from the nearby hill in west direction during rains only.</p> <p>Apart from the above, study area is having many seasonal ponds, nallahs, water channels which are active during rainy season.</p>
1.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<ul style="list-style-type: none"> • Panwari RF (Khasara No. 4509, 4510 and 4511 of plant area falls under Panwari Forest) • RF (~1.0 km in ENE direction from plant site) • Kantia RF (Khasara No. 4522 and 4523 of plant area falls under Kantia Forest) • Kamlodia RF (~2.0 km in SW direction from plant site) • RF (~2.0 km in South direction from Plant site) • Bara Magra RF (~1.0 km in NNW direction from plant site) • Bhainsra RF (~3.5 km in NNW direction from plant site) • Segria RF (~3.5km in West direction from plant site) • Hinglashia RF (~3.5 km in SW direction from plant site) • Bordi RF (~3.5 km in WSW direction from plant site) • Dhenkli RF (~4.5 km in NW direction from plant site) • Gugla RF (~5.5 km in West direction from plant site) • Umra RF (~6.5 km in SW direction from plant site) • Bagdara RF (~8.0 km in SSW direction from plant site) • Santu RF (~6.5 km in SSE direction from plant site) • Nahar Magra RF (~6.5 km in NE direction from plant site) • Amberi PF (~8.5 km in NW direction from plant site) • Amarbir RF (~7.0 km in SSE direction from plant site) • Nauva RF (~8.0 km in NNW direction from plant site) • Hora RF (~8.5 km in SW direction from Plant site) • Kheradi RF (~8.5 km in NNW direction from plant site) Chirwa Ka Ghata (~9.0 Km in NNW direction from plant site)

S.No	Particulars	Details		
m.	Project cost	The capital cost for the proposed expansion project is Rs. 2500 Crores		
n.	EMP cost	EMP	Capital (Rs. in Crores)	Recurring (Rs. in Crores)
			Rs. 600.628 Crores	Rs. 70 Crores/annum
o.	Employment opportunity	The employment generation from the proposed expansion project will be 65 people.		
p.	Water and Power requirement	The total water requirement after expansion will be 9046 KLD, The total power requirement after proposed expansion will be 110 MW		
q.	CPA/SPA	The plant site is not located in CPA/SPA		



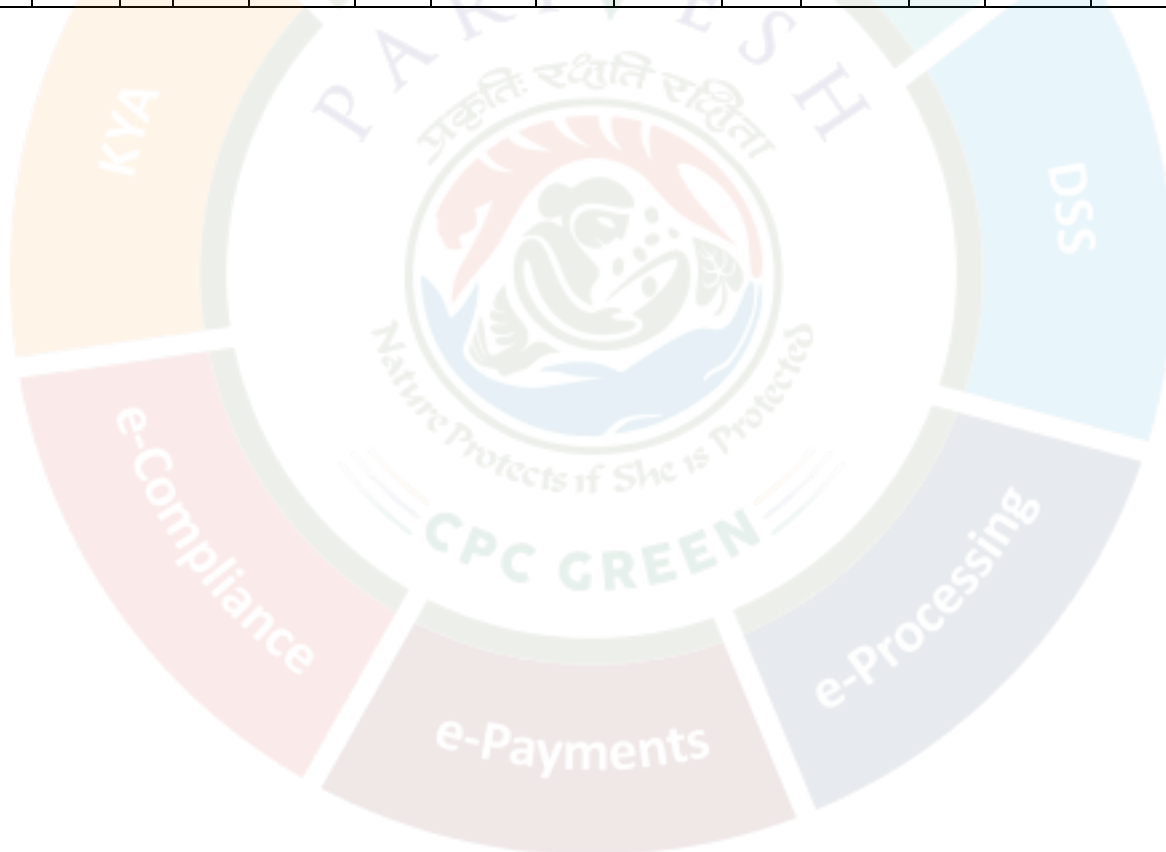
The unit configuration and capacity for the existing and proposed project are provided below. The present approval pertains only to Phase-I of the expansion, specifically for capacity enhancement up to 1,20,000 TPA (an increase of 20%) through modernization.

S. N o.	Prod ucts	U ni t	Production Capacity										Rema rks
			Existing				Additional				Total after expansion		
			As per EC		Operating		Phase I		Phase II		Cap acit y	Config uration	
			Cap acit y	Config uration	Cap acit y	Config uration	Cap acit y	Config uration	Cap acit y	Config uration			
1.	Raw Zinc Oxide (RZO)	TPA	NIL	NIL	17500	1 x 17500	NIL	NIL	NIL	NIL	17500	1 x 17500	Operating as per CTO No Change
2.	Sulphuric Acid	TPA	4,19,000	1x 44474 (Roaster 1) 1 x 85526 (Roaster 2) 1 x 28900 0 (Roaster 3)	3,74,526	1 x 85526 (Roaster 2) 1 x 28900 0 (Roaster 3)	79500 (18.97%)	1 x 28900 0 (New Roaster)	79500 (18.97%)	NIL	578000	1 x 28900 0 (Roaster 3) 1 x 28900 0 (New Roaster)	Existing granted quantity as per EC & CTO is 419000 TPA. However, existing operating capacity is 3,74,526TPA, as the Roaster 1 has

S. N o.	Prod ucts	U ni t	Production Capacity										Rema rks	
			Existing				Additional				Total after expansion			
			As per EC		Operating		Phase I		Phase II		Cap acit y	Config uration		
			Cap acit y	Config uration	Cap acit y	Config uration	Cap acit y	Config uration	Cap acit y	Config uration				
														been disma ntled. Roaste r 2 will also be disma ntled after stabili zation of new Roaste r
3.	Calci ne	T P A	4,45 ,000	1 x 47902 (Roast er 1) 1 x 97098 (Roast er 2) 1 x 30000 0 (Roast er 3)	3,97 ,098	1 x 97098 (Roast er 2) 1 x 30000 0 (Roast er 3)	77,5 00 (17. 42 %)	1 x 30000 0 (New Roaste r)	77,5 00 (17. 42 %)	NIL	6,00 ,000	1 x 30000 0 (Roast er 3) 1 x 30000 0 (New Roaste r)	Existi ng grante d quanti ty as per EC & CTO is 44500 0 TPA. Howe ver, existin g operat ing capaci ty is 39709 8 TPA, as the Roaste r 1 has been	

S. N o.	Prod ucts	U ni t	Production Capacity										Rema rks
			Existing				Additional				Total after expansion		
			As per EC		Operating		Phase I		Phase II		Cap acit y	Config uration	
			Cap acit y	Config uration	Cap acit y	Config uration	Cap acit y	Config uration	Cap acit y	Config uration			
													disma ntltd. Roaste r 2 will also be disma ntltd after stabili zation of new Roaste r
4.	Cad mium meta l/ Spon ge (equi valen t meta l)	T P A	320	1 x 320	320	1 x 320	62 19.3 7%)	1 x 62	62 (19. 37%))	1 x 62	444	1 x 444	Increa se in produ ction capaci ty due to chang e in conce ntrate qualiti ty
5.	Calo mel	T P A	NIL	NIL	15	1 x15	3 (20 %)	1 x 6	3 (20 %)	Nil	21	1 x 21	Increa se in produ ction capaci ty for waste utiliza tion
6.	Sodi um Sulp	T P A	NIL	NIL	185 00	18500	250 0	1 x 6700	250 0	NIL	235 00	1 x 6700	Increa se in produ

S. No.	Products	Unit	Production Capacity										Remarks
			Existing				Additional				Total after expansion		
			As per EC		Operating		Phase I		Phase II		Capacity	Configuration	
			Capacity	Configuration	Capacity	Configuration	Capacity	Configuration	Capacity	Configuration			
	hate/Chloride/Compound						(13.51%)	R3 TGT 1 x 8400 New Roaster TGT1 x 8400	(13.51%)			R3 TGT 1 x 8400 New Roaster TGT1 x 8400	ction capacity for waste utilization



Action plan as per MoEF&CC O.M. dated 30/09/2020:**Action plan as per MoEFCC O.M. dated 30/09/2020**

Sector	Activity	1 st Year	2 nd Year	3 rd Year	Total Amount (Rs. Lacs)
Community Infra	Construction of roads, community halls, school hall, School classrooms etc. based on need assessment and request from villages.	184	585	643.5	1412.5
Education	Support to schools through Siksha Sambal a program for providing education in Science, English and Maths. Support towards education initiatives-IIT coaching for students of HZL communities. Support to female students to pursue higher education at Vedanta PG Girls College. Anganwadis strengthening program, supporting preschool education, health of 0-6 kids/pregnant women, stakeholder engagements and developing Nand Ghars.	217.2	260.8	274.88	752.88
Water	Supply of drinking water through tankers and water RO and ATM	45	90	99	234
Sanitation	Sanitization drive and waste management system to be installed in villages	0	50	55	105
Women empowerment	Promoting activities like saving, credit linkage and income generation by forming SHG of women and strengthening them by supporting skill development. Currently 5000+ women are associated with our program.	71.63	110	121	302.63
Sustainable livelihood	Ensuring sustainable livelihoods through integrated farming system in operational area and promoting Sustainable community-based institutions to empower the rural community. Provide training and employment opportunities to the local unemployed youth communities.	159.62	200	220	579.62
Health	Providing primary health care facilities to nearby villages with the help of Mobile Health Van.	36	50	55	141
Total		713.45	1345.8	1468.38	3527.63

Sector	Activity	1 st Year	2 nd Year	3 rd Year	Total Amount (Rs. Lacs)
Note: * The above action plan will be implemented during project implementation phases. ** The activities given in the above table are excluding the Pollution control and mitigation measures, which are included in EMP cost i.e., (Capital Cost: Rs. 600.628 Crores/- & Recurring Cost: Rs. 70 Crores/annum. *** Village Development Committees will be formed to engage with the community; plan, monitor and coordinate the social developmental activities.					

Village Adoption Plan

S. No.	Nature of activity / Activity details	Tentative total Quantity	2024-25		2025-26		2026-27		Total (Rs. Lacs)
			Quantity	Budget	Quantity	Budget	Quantity	Budget	
A.	Village Bichhri								
1.	Drinking Water Facility - Pipeline & Tank, ATMs	Pipeline, Tank, Solar Pump and 1 ATM	1	4	-	30	-	35	69
2.	Road	1500 RM	-	0	500	25	1000	50	
3.	Over-Bridge	1 no.	-	1	-	0	1	75	76
4.	Street Lights	200 no. of LED lights	-	0	75	3	75	3	6
5.	Model Schools	2 no.	-	0	-	30	-	30	60
6.	Sub Center – Health	1 no.	-	0	-	10	-	15	25
7.	Nand Ghar / Model Anganwadi	2 no. of Nand Ghar Development	-	0	1	17.5	1	17.5	35
8.	Community Hall	2 no.	1	15	1	20	-	0	35
9.	Cremation shed	1 no.	1	20	-	0	-	0	20
10.	Women Washroom	2 no.	-	0	1	7	-	0	7
11.	Plantation Roadside	500 no. of Plants with Maintenance	100	2	200	4	200	4	10
12.	Sanitation Drive with System	1 no.	-	0	1	30	-	0	30
13.	Signage and boards - Road side	-	-	0	-	5	-	0	5

S. No.	Nature of activity / Activity details	Tentative total Quantity	2024-25		2025-26		2026-27		Total (Rs. Lacs)
			Quantity	Budget	Quantity	Budget	Quantity	Budget	
	Sub Total		-	42	-	181.5	-	229.5	453
A.	Village Debari								
1.	Drinking Water Facility - Pipeline & Tank	Pipeline, Tank, Solar Pump	-	0	-	30	-	30	60
2.	Street Lights & High Mast Light	50 no. of LED lights and Poles	-	0	25	7.5	25	7.5	15
3.	Model Schools (High Secondary School)	1 no.	-	30	-	25	-	25	80
4.	Sub Center – Health	1 no.	-	0	-	15	-	10	25
5.	Community Hall	1 no.	1	20	-	0	-	0	20
6.	Cremation shed	1 no.	-	0	1	10	-	0	10
7.	Women Washroom	2 no.	1	7	-	0	1	7	14
8.	Plantation Roadside	200 no.	50	1	50	1	100	2	4
9.	Sanitation Drive with System	1 no.	1	25	-	0	-	0	25
10.	Signage and boards - Road side	-	-	0	-	5	-	0	5
	Sub Total		-	83	76	93.5	126	81.5	258
	Grand total		-	125	-	275	-	311	711