



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

To,

The Authorized Signatory and Project Manager
ADANI ENTERPRISES LTD

Adani Enterprises Ltd,
Shantigram, S.G.Highway, Ahmedabad - 382421,,Ahmedabad,Gujarat-
382421

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/GJ/IND/230852/2021 dated 01 Jul 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---|
| 1. EC Identification No. | EC22A009GJ154137 |
| 2. File No. | IA-J-11011/423/2021-IA-II(IND-I) |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 3(b) Cement plants |
| 6. Name of Project | Proposed Coal to Poly-vinyl Chloride (PVC) near Village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat by M/s. Adani Enterprises Limited |
| 7. Name of Company/Organization | ADANI ENTERPRISES LTD |
| 8. Location of Project | Gujarat |
| 9. TOR Date | 03 Dec 2021 |

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

Date: 26/09/2022

(e-signed)
Dr. R. B. Lal
Scientist E
IA - (Industrial Projects - 1 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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F. No. IA-J-11011/423/2021-IA-II(IND-I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division – Industry I sector)

Indira Paryavaran Bhawan
Vayu Wing, 3rd Floor,
Jor Bagh Road, Aliganj,
New Delhi – 110003

Dated: 26th September, 2022

To,

M/s Adani Enetrprises Ltd,
Shantigram, S.G. Highway
Ahmedabad - 382421, Gujarat
Email: prasad.suryarao@adani.com

Project: Proposed Semi Coke Unit: 2030 KTPA and Cement Plant: 6.0 MTPA; Clinker: 4 MTPA by M/s Adani Enterprises Limited, located near Village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat - Grant of Environmental Clearance regarding

Sir,

This refers to your proposal no. IA/GJ/IND/230852/2021 dated 07.06.2022 along with copy of EIA/EMP Report, Form - 2 seeking Environment Clearance (EC) and further information uploaded on Portal on 30.07.2022 under the provisions of the EIA Notification, 2006 for the project mentioned above.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered under category 'A' of item **3(b) Cement plant and 4(b) Coke oven plant of the EIA Notification, 2006 and appraised at Central Level.**

3. The above-mentioned proposal has been considered in **9th meeting of Expert Appraisal Committee (Industry-1 Sector) held on 14th -15th July , 2022.** The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

4. 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 as under: -

S. No.	Particulars	Details submitted by PP
a.	Terms of Reference for undertaking EIA study	03.12.2021
b.	Period of baseline data collection	22 nd March, 2021 to 22 nd June, 2021
c.	Date of Public Consultation	30 th April 2022
d.	Action plan to address the PH issues	An amount of Rs. 123 Cr. have been earmarked to address the issues raised during public hearing. Detail of activities proposed



S. No.	Particulars	Details submitted by PP																																																																																																																		
		attached as Annexure 1.																																																																																																																		
e.	Location of the project	Village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat																																																																																																																		
f.	Latitude and Longitude of the project site	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Latitude</th> <th colspan="3">Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td colspan="4">Pocket - 1</td> </tr> <tr> <td>1</td> <td>22°47'53.80" N</td> <td colspan="3">69°34'32.69" E</td> </tr> <tr> <td>2</td> <td>22°47'11.71" N</td> <td colspan="3">69°34'38.80" E</td> </tr> <tr> <td>3</td> <td>22°46'59.14" N</td> <td colspan="3">69°34'50.48" E</td> </tr> <tr> <td>4</td> <td>22°46'32.63" N</td> <td colspan="3">69°34'37.72" E</td> </tr> <tr> <td>5</td> <td>22°46'47.69" N</td> <td colspan="3">69°34'1.83" E</td> </tr> <tr> <td>6</td> <td>22°47'11.44" N</td> <td colspan="3">69°34'4.04" E</td> </tr> <tr> <td>7</td> <td>22°47'20.39" N</td> <td colspan="3">69°34'14.21" E</td> </tr> <tr> <td>8</td> <td>22°47'24.62" N</td> <td colspan="3">69°33'54.85" E</td> </tr> <tr> <td>B</td> <td colspan="4">Pocket - 2</td> </tr> <tr> <td>1</td> <td>22°47'21.22" N</td> <td colspan="3">69°33'37.65" E</td> </tr> <tr> <td>2</td> <td>22°46'50.00" N</td> <td colspan="3">69°33'44.73" E</td> </tr> <tr> <td>3</td> <td>22°46'48.07" N</td> <td colspan="3">69°33'35.72" E</td> </tr> <tr> <td>4</td> <td>22°47'15.51" N</td> <td colspan="3">69°33'20.29" E</td> </tr> <tr> <td>C</td> <td colspan="4">Pocket - 3</td> </tr> <tr> <td>1</td> <td>22°48'7.71" N</td> <td colspan="3">69°32'12.72" E</td> </tr> <tr> <td>2</td> <td>22°48'11.55" N</td> <td colspan="3">69°33'21.75" E</td> </tr> <tr> <td>3</td> <td>22°48'1.78" N</td> <td colspan="3">69°33'24.93" E</td> </tr> <tr> <td>4</td> <td>22°48'9.03" N</td> <td colspan="3">69°32'55.95" E</td> </tr> <tr> <td>5</td> <td>22°47'46.06" N</td> <td colspan="3">69°32'33.01" E</td> </tr> <tr> <td>6</td> <td>22°47'45.40" N</td> <td colspan="3">69°32'12.49" E</td> </tr> </tbody> </table>					Sr. No.	Latitude	Longitude			A	Pocket - 1				1	22°47'53.80" N	69°34'32.69" E			2	22°47'11.71" N	69°34'38.80" E			3	22°46'59.14" N	69°34'50.48" E			4	22°46'32.63" N	69°34'37.72" E			5	22°46'47.69" N	69°34'1.83" E			6	22°47'11.44" N	69°34'4.04" E			7	22°47'20.39" N	69°34'14.21" E			8	22°47'24.62" N	69°33'54.85" E			B	Pocket - 2				1	22°47'21.22" N	69°33'37.65" E			2	22°46'50.00" N	69°33'44.73" E			3	22°46'48.07" N	69°33'35.72" E			4	22°47'15.51" N	69°33'20.29" E			C	Pocket - 3				1	22°48'7.71" N	69°32'12.72" E			2	22°48'11.55" N	69°33'21.75" E			3	22°48'1.78" N	69°33'24.93" E			4	22°48'9.03" N	69°32'55.95" E			5	22°47'46.06" N	69°32'33.01" E			6	22°47'45.40" N	69°32'12.49" E		
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g.	Total land	<p>Total land: 800 Acres (323.69 Ha) Semi coke and calcium carbide will be set up in Pocket 1. Cement, Clinker will be set up in Pocket 2.</p> <p>(The proposed project will be established in the land allocated by APSEZL, Taluka Mundra, and District Kutch in the state of Gujarat.)</p>																																																																																																																		
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Total land requirement is 323.69 Ha. Proposed land is already notified as industrial land of APSEZ Ltd. Willingness letter from APSEZ Ltd. is received.																																																																																																																		
i.	Existence of habitation & involvement of R&R, if any	<p>Project site: The land for the proposed project has no human habitation. Hence, R & R is not involved.</p> <p>Study Area:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Habitation</th> <th colspan="2">Distance from Pocket</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Vandh</td> <td>Pocket 3</td> <td>0.1 km</td> <td>N</td> </tr> <tr> <td>2.</td> <td>Tunda</td> <td>Pocket 3</td> <td>3.1 km</td> <td>NNW</td> </tr> <tr> <td>3.</td> <td>Kandagara</td> <td>Pocket 3</td> <td>4.3 km</td> <td>NNW</td> </tr> <tr> <td>4.</td> <td>Shiracha</td> <td>Pocket 3</td> <td>4.2 km</td> <td>NNE</td> </tr> <tr> <td>5.</td> <td>Navinal</td> <td>Pocket 1</td> <td>3.0 km</td> <td>NE</td> </tr> </tbody> </table>					S. No.	Habitation	Distance from Pocket		Direction	1.	Vandh	Pocket 3	0.1 km	N	2.	Tunda	Pocket 3	3.1 km	NNW	3.	Kandagara	Pocket 3	4.3 km	NNW	4.	Shiracha	Pocket 3	4.2 km	NNE	5.	Navinal	Pocket 1	3.0 km	NE																																																																																
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				6.	Jarpara	Pocket 1	8.2 km	ENE																												
		7.	Mota Bhadiya	Pocket 3	5.9 km	WNW																														
		8.	Tragadi	Pocket 3	7.2 km	WNW																														
		9.	Nana Bhadiya	Pocket 3	8.4 km	NW																														
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		12.	Deshalpar	Pocket 3	8.9 km	NNE																														
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		15.	Modhva	Pocket 3	9.8 km	W																														
j.	Elevation of the project site	6-15 m above MSL																																		
k.	Involvement of Forest land if any.	<p>For this project proposed by M/s AEL, no fresh Forest Clearance is required. This project is proposed on the Land which is already notified as industrial land of M/s APSEZ Ltd.</p> <p>The majority of the land for the proposed project was forest land for which clearance was already obtained by M/s APSEZ Ltd vide F.no.8-2/19on99-FC(pt) dated 30/09/2009 and subsequent to forest clearance this land was notified as industrial land vide Gazette Notification no.S.O.3029(E) dated 21/09/2016 issued by Ministry of Commerce and Industry.</p> <p>M/s APSEZ Ltd has provided the letter to M/s AEL that identified land for the project will be transferred to M/s AEL upon obtaining Environmental Clearances by M/s AEL for proposed project and due land lease documentation and commercials.</p>																																		
i.	Water body exists within the project site as well as study area	<p>Project site: Not existing within the proposed location</p> <p>Study area</p> <table border="1"> <thead> <tr> <th>Water Body</th> <th>Distance, km</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Jarpara Lake</td> <td>8.08 (from Pocket 1)</td> <td>ENE</td> </tr> <tr> <td>Khari River</td> <td>0.5 (from Pocket 3)</td> <td>N</td> </tr> <tr> <td>Nagvanti River</td> <td>5.6 (from Pocket 1)</td> <td>ENE</td> </tr> <tr> <td>Dhanesri River</td> <td>0.7 (from Pocket 1)</td> <td>NNE</td> </tr> <tr> <td>Phot River</td> <td>12.05</td> <td>ENE</td> </tr> <tr> <td>Gulf Of Kachchh</td> <td>1.17 (from Pocket 2)</td> <td>S</td> </tr> <tr> <td>Baradi Mata Creek</td> <td>7.05 (from Pocket 1)</td> <td>SE</td> </tr> <tr> <td>Kotdi Creek (also Between Pocket 1 & 2)</td> <td>2.48 (from Pocket 3)</td> <td>E</td> </tr> <tr> <td>Modhva Coast</td> <td>9.7 (from Pocket 2)</td> <td>W</td> </tr> </tbody> </table>					Water Body	Distance, km	Direction	Jarpara Lake	8.08 (from Pocket 1)	ENE	Khari River	0.5 (from Pocket 3)	N	Nagvanti River	5.6 (from Pocket 1)	ENE	Dhanesri River	0.7 (from Pocket 1)	NNE	Phot River	12.05	ENE	Gulf Of Kachchh	1.17 (from Pocket 2)	S	Baradi Mata Creek	7.05 (from Pocket 1)	SE	Kotdi Creek (also Between Pocket 1 & 2)	2.48 (from Pocket 3)	E	Modhva Coast	9.7 (from Pocket 2)	W
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m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant	<p>None</p> <p>Details on Reserved Forest in the study area</p> <table border="1"> <thead> <tr> <th>Reserve Forest</th> <th>Distance, km</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Presence of Turtle</td> <td>10</td> <td>W</td> </tr> </tbody> </table>					Reserve Forest	Distance, km	Direction	Presence of Turtle	10	W																								
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S. No.	Particulars	Details submitted by PP		
	reserve etc. if any within the study area	Siracha R.F	2.2 (From Pocket-1) 2.6 (From Pocket-2) 1.2 (From Pocket-3)	N NNE NNE
		Danderi R.F.	3.0 (From Pocket-1) 3.6 (From Pocket-2) 2.1 (From Pocket-3)	NNW NNE NNE
		Navinal R.F.	2.5 (From Pocket-1) 4.3 (From Pocket-2) 3.8 (From Pocket-3)	NE NE NE
		Mundra Dhoa R.F.	1.4 (From Pocket-1) 3.2 (From Pocket-2) 3.0 (From Pocket-3)	ENE ENE E
		Dhrab R.F.	9.6 (From Pocket-1) 11.5 (From Pocket-2) 11.8 (From Pocket-3)	ENE ENE E
		Mundra Mangrove R.F	Adjacent (From Pocket-1) Adjacent (From Pocket-2) 0.15 (From Pocket-3)	- - SE
n.	Project cost	Total cost of the proposed project is Rs. 34,900 Crores, which includes Rs. 15,900 crores for the proposed activities within the domain of EAC Industry – 1.		
o.	EMP cost	For the Coal to PVC project, the capital cost for environmental protection measures is proposed as Rs. 2874.59 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 1494.55 Crores. Project Proponent (PP) proposes to allocate Rs. 123 Crores towards Extended EMP (Corporate Environment and Social Responsibility).		
p.	Employment opportunity	Total Employment will be ~12000 numbers during construction phase (i.e. ~5000 direct and ~7000 indirect) and ~11,600 numbers during operation phase (i.e. ~3600 on direct and ~8000 indirect)		
q.	Water and Power requirement	The total water requirement for Coal to PVC project will be 222.875 MLD. This will be met by internal recycling of 62 MLD and makeup water of 160.053 MLD from APSEZL Seawater Desalination plant. This make up water quantity includes 4.865 MLD water requirement for Semi Coke, Calcium Carbide and plant falling in the scope of Ind-1 EAC and others common utilities 65.948 MLD. The power requirement for the project during operation phase is estimated as 2000 MW and during construction phase is estimated as 30MW.		

Unit configuration and capacity:

S. No.	Facility	Product/by-product	Proposed Capacity
1	Semi – Coke (4(b))	Coke	2030 KTPA
2		Tar	370 KTPA
3		Crude Benzene	26 KTPA
4		Ammonium Sulphate	18 KTPA



S. No.	Facility	Product/by-product	Proposed Capacity
5		Sulphur	5 KTPA
6		Coking Gas	1360 MNm ³ /A
7	Cement (3(b))	Ordinary Portland Cement, Portland Pozzolona Cement, Portland Slag Cement, Portland Composite Cement	6000 KTPA
8		Clinker	4000 KTPA
9	Calcium Carbide (Not specified in any schedule of EIA Notification 2006)	Calcium Carbide	2900 KTPA
10		Lime fines and lime residue	2870 KTPA

5. The EAC, in its meeting held during 14-15 July, 2022, inter-alia, deliberated the following:
- (i) The instant proposal is for setting up of a new Semi Coke – 2030 KTPA, Calcium Carbide–2900 KTPA (Not Specified in Any Industrial Committee), Cement–6 MTPA; Clinker–4 MTPA plant as a part of “Proposed Coal to Poly-Vinyl Chloride (PVC) Project of Adani Enterprises Ltd. (AEL) in land notified as Industrial area of APSEZ, Taluka Mundra, District Kachchh, Gujarat comprising of Industry-I projects i.e. Semi Coke – 2030 KTPA, Calcium Carbide–2900 KTPA (Not Specified in Any Industrial Committee), Cement–6 MTPA; Clinker–4 MTPA, Industry-II projects i.e. VCM–2002 KTPA, PVC–2000 KTPA, Ethylene Glycol– 400 KTPA and Industry-III projects i.e. Acetylene–860 KTPA and Caustic Soda–1310 KTPA”) located at industrial area of APSEZ, Taluka- Mundra, District-Kutch, State Gujarat by Adani Enterprises Ltd. (where, KTPA: Kilo Tonne Per Annum; MTPA: Million Tonne Per Annum).
 - (ii) The Project boundary is superimposed on CRZ maps of indicating HTL and LTL and CRZ classification by authorized agency i.e National Centre for Sustainable Coastal Management, Chennai. Superimposed CRZ maps and report received from NCSCM. As per the Maps submitted by National Centre for Sustainable Coastal Management, Chennai, the instant project is outside of the CRZ area as per CRZ Notification.
 - (iii) The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
 - (iv) The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
 - (v) The Committee noted that the EIA/EMP reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
 - (vi) The Project would be located in three separate land pockets. Pocket1:502.2acres (203.20 ha) (falling under Tunda village), Pocket2:114.9acres (46.49 ha) and Pocket3:182.9Acres (74 ha).

Pocket 2 & 3 falling under Mundra Village (which is diverted forest land for SEZ development).

- (vii) No water bodies including rivers, lakes, creeks etc. exists within the project site as detailed in para 4 (l) above.
- (viii) Proposed greenbelt will be developed in 107.14 ha which is about 33.09% of the total project area of 323.69 ha area. A 96 m wide greenbelt consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC. Local and native species will be planted with a density of 2500 trees per hectare.
- (ix) There are Schedule - I species reported in study area, namely *Gazella Bennettii*, *Varanus bengalensis*, *Lissemus punctatea*, *Pavo cristatus*, *Acipiter Badius*, *Circus aeruginosus* and *Platalea leucordia*. Conservation Plan has been prepared and approved by the Chief Wildlife Warden, Gandhinagar vide letter no. WLP/32/C/297-298/2022-2023 dated 18/06/2022. The Committee deliberated the plan and found in order.
- (x) The EAC also noted that CPCB in his comments dated 9th June 2022, inter-alia, mentioned that a representation from M/s Adani Enterprises Limited regarding a semi-coke unit in the proposed Coal-to-PVC project has been received. CSIR-CIMFR has conducted comparison of stack emission and fugitive emissions of proposed technology with the standards for coke oven in the report. CSIR-CIMFR has certified that as per the technology documents provided by AEL, the proposed semi-coke production unit meets the pollution, safety, environment and other regulatory standards stipulated vide GSR 277(E) dt.31.3.2012 for newly installed by product recovery type coke ovens. The EAC deliberated and found that the TOR condition is compiled and PP needs to implement the recommendations of CSIR-CIMFR, in this regard.
- (xi) One PIL has been filed by Kheti Vikas Seva Trust. PIL is registered as No. 36 of 2022. Kheti Vikas has raised objections on conducting one Public Hearing for various projects. Kheti Vikas has prayer to the court for stay on Public Hearing. Matter was posted in Gujarat High court on dated 18.04.2022. Matter was heard by court and next date posted on 20th June, 2022. Matter could not come for hearing on 20th June, 2022 & 5th July, 2022 and it is further proposed to 22nd July, 2022. The Committee also deliberated on the PIL and concluded that Public Hearing has been conducted as per the provisions of EIA Notification, 2006. Accordingly, EAC had made due diligence on all the issues raised during public hearing and found that the action plan made by the PP is found to be in order. However, the EAC is of the view that a specific condition in this regard may be included while granting EC.
- (xii) The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- (xiii) The Committee deliberated on the action plan and budget allocation for green belt development and noted that as committed by the PP the green belt development shall be completed in a year.
- (xiv) The Committee noted that the project proponent, vide letter dated 15.07.2022, has submitted an undertaking and committed to undertake (a) To improve the proposed amount of Rs. 123 Crore will be used for community activities through Adani Foundation which is a group level CSR agency to cover all points of public hearing including requirement to support / establish cancer hospital and burn care center in district / taluka center in the Kutch area, construction of overhead water tanks/RO water ATM centers in villages where it is needed for drinking water availability. (b) The impact assessment of CER activities will be conducted on yearly basis and summery shall be submitted along with compliance report to IRO, MoEF&CC. (c) The budget has been revised and increased in initial years in the plan to complete measure social activities within the project periods. (d) The project shall adopt all 15 villages for holistic development through CER using Rs.123 Crore during project construction period and after that through

need-based CSR in operational stage through Adani Foundation as per applicable regulations as per the Companies Act 2013.

- (xv) The Committee also deliberated on the public hearing issues along with revised action plan submitted by the project proponent through written representation to address the issues raised during the public hearing and found that the budget of Rs. 123 Crores allocated towards addressal of PH issues. EAC is of the view that that PP should explore the possibility to increase the budget to Rs. 300 Crores so as to address the issues more efficaciously. Accordingly, a detailed action plan shall be implemented and the status of the same shall be submitted to IRO, MoEFCC.
- (xvi) The EAC also deliberated on the written submissions submitted by the proponent and found it satisfactory. However, the EAC is of the view that these written submissions to be uploaded on Portal accordingly advised the Ministry to open the window for uploading this information on portal.
- (xvii) The EAC deliberated the environment management plan w.r.t. changes of capacity of raw materials, fuel and found that EIA/ EMP report are in order as per the provisions of the EIA Notification, 2006
- (xviii) 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.
- (xix) 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.

6. The EAC, in its 9th meeting of Expert Appraisal Committee (Industry-1 Sector) held on 14-15th July, 2022, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal (i.e., i.e. Semi Coke – 2030 KTPA, Calcium Carbide–2900 KTPA, Cement–6 MTPA; Clinker–4 MTPA) for grant of Environment Clearance subject to stipulation of specific and general conditions as detailed in the point below.

7. 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) hereby decided to grant **Environment Clearance for instant proposal (i.e., Semi Coke – 2030 KTPA, Calcium Carbide–2900 KTPA, Cement–6 MTPA; Clinker–4 MTPA) of M/s Adani Enterprises Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

A. Specific conditions

- (i) **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. Project proponent shall abide by all the orders and judicial pronouncements, made from time to time, passed by Hon'ble High Court of Gujarat in PIL No. 36 of 2022.**
- (ii) **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.

- (iii) 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.
- (iv) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- (v) The activities and the action plan proposed by the project proponent to address the issues raised during public hearing and socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.
- (vi) There are many water bodies including Jarpara Lake, Khari river, Nagvanti River, Dhanesri River, Phot River, Gulf of Kutch, Baradi Mata Creek, Kotdi Creek, Modhva Coast exists within the project site. A robust 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.
- (vii) As all the natural drainage including the micro drainage flows into the Gulf of Kutch, a drainage conservation plan shall be implemented. An adequate robust Erosion control and Soil Conservation Program (like Storm water diversion; Storm water drains with catch pits to trap run off material; Garland drains; Retention walls; Settling Ponds; Wheel washing arrangement; Silt removal from settling ponds and utilization; Greening & Paving; Excavated soil preservation for landscaping) shall be implemented.
- (viii) The Efforts shall be made to achieve power consumption of 70 units/tonne of Portland-Pozzolona cement (PPC) and 95 units/tonne of cement for Ordinary Portland Cement and thermal energy consumption of 670 kcal/Kg of Clinker.
- (ix) Most of the transportation of raw material is by road, the distance of which is within 10 km. Project Proponent shall use overhead belt conveyor wherever possible. Action plan shall be prepared and implemented in a time bound manner from the date of issue of Environment Clearance after obtaining requisite statutory permissions from the concerned competent authority.
- (x) The project proponent shall develop Greenbelt over an area at least 107.14 ha by planting 2,67,600 number of trees in 5 years from the grant of EC. The saplings selected for the plantation should be of sufficient height, preferably 6-ft. In addition to this as committed by the PP, Industry shall deploy a uniform greenbelt of equal width all-round the plant boundary, it will reduce the width of the green belt by 15 to 25 meters on seaward side of the project and will increase the width of the greenbelt on landward side of the project maintaining the total 33% of the greenbelt. The budget earmarked for the plantation shall be ₹75 crore and shall be kept in separate account and should be audited annually. The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
- (xi) The total water requirement for Coal to PVC project will be 222.875 MLD. This will be met by internal recycling of 62 MLD and makeup water of 160.053 MLD from APSEZL Seawater Desalination plant. No groundwater extraction is permitted.



- (xii) All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.
- (xiii) Slip roads shall be provided at the gates and along crossings on main roads. All internal and connecting road to the Highway shall be black topped/ concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.
- (xiv) Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF&CC.
- (xv) Project Proponent shall implement the recommendations of CSIR-CIMFR on the Report which was conducted on validation of technology proposed for Semi-Coke Unit to evaluate all the environmental concerns arising out of the project activities and their conformity to the Indian Standards issued vide G.S.R. 277 (E) dated 31 March 2012 pertaining to Coke -Oven Plant.
- (xvi) Coke Oven Gas shall be desulfurized.
- (xvii) Coke oven plant shall be equipped with modified wet quenching system.
- (xviii) Dioxin and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to the Regional Office of the MoEF&CC.
- (xix) Project proponent shall develop separate drainage system for storm water and industrial waste water and effectively prevent the pollution of natural waterbody.
- (xx) Particulate matter emissions from cement mill stacks shall be less than 20 mg/Nm³.
- (xxi) Entire waste water shall be treated and reused for plantation and dust suppression within the premises. Also, STP water shall be reused in plantation with a view to conserve fresh water.
- (xxii) As committed by the project proponent to adopt the 15 villages, where habitation exists within the study area of the project site, namely Vandh, Tunda, Kandagara, Shiracha, Navinal, Jarpara, Mota Bhadiya, Tragadi, Nana Bhadiya, Nani Khakar, Moti Khakhar, Deshalpar, Moti Bhujpur, Nani Bhujpur and Modhva, Project Proponent shall adopt these villages and prepare and implement a robust plan to develop them into model villages in next 10 years.
- (xxiii) Hot air dryer shall not be installed. Flue gases of preheater shall be used to dry the slag/bottom ash.
- (xxiv) DeSO_x system shall be provided dry type. NO_x level shall be maintained below 600 mg/Nm³ by using best available technology.
- (xxv) Petcoke dosing shall be controlled automatically to control SO₂ emission from chimney within the prescribed limits.
- (xxvi) The PP shall develop a control strategy and mitigation plan that incorporates the pollution control measures. The Clean Air practices shall be adopted like mechanical collectors, wet scrubbers, fabric filters (baghouses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation.
- (xxvii) Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. The PP to this effect shall implement a time bound Action Plan, and the compliance shall be submitted to IRO, MoEFCC.
- (xxviii) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- (xxix) The total quantity of particulate matter generated (kg/month) and the percentage of this



captured by pollution control units, must be reported every six months.

- (xxx) The project proponent shall take utmost importance in protecting, conserving and enhancing the wildlife fauna in areas falling under their operational activities, especially the aquatic/ marine/ estuarine ecosystems. 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.
- (xxxii) The project proponent shall not disturb the nearby Mangrove forest and shall take necessary steps to protect, conserve and enhance them.
- (xxxiii) The project proponent shall implement the Disaster/ Risk Management SOPs and protocols, as the Kutch area is prone to periodic cyclone storms. All the recommendations made in the risk assessment report shall be implemented and compliance status in this regard shall be furnished to the Regional Office of the MoEF&CC along with the six monthly compliance report.
- (xxxiiii) The project proponent shall comply with all the mitigation measures suggested by other divisions of MoEF&CC including Industry-II, Industry-III, Infra-I and also state departments like SPCB in the instant inter-linked PVC to Coal project.
- (xxxv) 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.

B. General conditions

I. Statutory compliance:

- i. 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.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants), as amended from time to time), G.S.R 277 (E) dated 31st March 2012 (Coke Oven Plants) 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.

- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system carryout to 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.
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. 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.
- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
- viii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- ix. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
- x. Provide wind shelter fence and chemical spraying on the raw material stock piles; and
- xi. Provide Low NOX burners as primary measures and SCR /NSCR technologies as secondary measure to control NOX emissions.
- xii. Have separate truck parking area and monitor vehicular emissions at regular interval.
- xiii. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport
- xiv. Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants.
- xv. Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).
- xvi. Land-based APC system shall be installed to control coke pushing emissions.
- xvii. Monitor CO, HC and O₂ in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.
- xviii. Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.



III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants), as amended from time to time), G.S.R 277 (E) dated 31st March 2012 (Coke Oven Plants) 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.
- ii. The project proponent shall regularly monitor 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.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. 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
- v. Water meters shall be provided at the inlet to all unit processes in the cement plant.
- vi. The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vii. The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time as amended from time to time.

IV. Noise monitoring and prevention

- i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. 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.

V. Energy Conservation measures

- i. Waste heat recovery system shall be provided for kiln and cooler.
- ii. The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
- iii. 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.
- iv. Provide the project proponent for LED lights in their offices and residential areas.



VI. Waste management

- i. Used refractories shall be recycled as far as possible.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.
- ii. Project proponent shall submit a study report within six months on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon 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 monitorable with defined time frames.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall 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.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. 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.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in



the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, 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.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, 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.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall 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.
- viii. 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.
- ix. 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.
- x. 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).
- xi. 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.

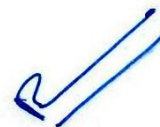
8. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above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

9. 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.

10. 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.

11. 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.

12. This issues with approval of the competent authority.



(Dr. R. B. Lal)
Scientist 'E'/Additional Director
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Encl. as above at Annexure -I

Copy to: -

1. The Principal Secretary, Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010 (Gujarat)
2. The Principal Secretary, Forests Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010 (Gujarat)
3. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
4. The PCCF & HOFF, Gujarat State, Block A, 1st Floor, Aranya Bhavan, Opp, St. Xaviers School, Near Ch-3 Circle, Sector-10/A, Gandhinagar.
5. The Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Gandhi Nagar, A wing- 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10 A, Gandhi Nagar-382010
6. The Member Secretary Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
7. The Member Secretary, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043 (Gujarat)
8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
9. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi



10. The District Collector, Kachchh, Gujarat

11. Guard File/Monitoring File/Parivesh portal/Record File.



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

S. No.	Activities	Proposed expenditure in project (INR in crores)					Total proposed Expenditure (INR in crores)
		1 st year	2 nd Year	3 rd Year	4 th year	5 th Year	
A	Education Initiatives						
1	Supporting in creation of assembly halls, prayer hall, classrooms, computer labs, space for mid-day meal, playground, school walls, necessary requirement of students etc. for government school.	7	5	5	4	4	25
2	Igniting mind of students through science on wheels, UDAN schemes.						
3	Educational Vocational Guidance Fair (EVGF) for career talk.						
4	Balwadis for the kids of fisher-folk community to provide awareness about education, health, hygiene, and discipline.						
5	Programme for skills improvements of teaching staffs in govt. schools.						
6	Contingency and monitoring						
7	Skill development						
B	Community Health Initiatives						
1	Senior Citizen Health Card Scheme to address the needs of the senior citizens.	8	7	7	6.5	6.5	35
2	Various health camps organization at regular intervals i.e. Gynaecological care, Blood donation, Health awareness programs, HIV/AIDS, Cataract detection						
3	Provision of Free Mobile Health Care Units (MHCU).						
4	Promotion of awareness of malnutrition and anaemia						
5	Setting up rural clinics to ensures outreach services.						
6	Contingency and monitoring						
C	Sustainable Livelihood and Women Empowerment						
1	Extend assistance to start SHGs to empower women and material and financial support to take up self-employment	8	7	7	6.5	6.5	35



S. No.	Activities	Proposed expenditure in project (INR in crores)					Total proposed Expenditure (INR in crores)
		1 st year	2 nd Year	3 rd Year	4 th year	5 th Year	
2	Amenities like equipment support, sanitation facilities, approach roads, fish lending sheds, fisher-folk vasahats (Settlements); training for livelihood, Insurance etc.						
3	Skill Development Centre (SDC) to make the youth for achieving their Goals in life by becoming Skilled Professionals						
4	Provision of fodder support, promote bio-gas installation in agri and animal husbandry-based families' households. Construction of cattle sheds, Awareness meetings and exposure visits for animal husbandry						
5	Research institute , marketing and plantation of Gugal plants						
6	Mangrove plantation and community plantation promotion by awareness, donation of saplings, creating the green-clubs in schools and direct plantation by the project proponents						
7	Support for Drip irrigation						
8	Contingency and monitoring						
D	Community Rural Infrastructure Development						
1	To provide facility for potable drinking water by providing RO Plants, drinking water supply system, overhead tank and underground pump in villages,	7	6	5	5	5	28
2	Creation of clean and hygienic environment by proper drainage systems, sewage treatment plants, community led sanitation campaign etc.						
3	Construction of various community centers to facilitate social activities, upgradation of facility at crematoriums, Gaushala, and creation of bus stands etc.						
4	Conservation of water by construction of check dams and pond.						
5	Upgradation of primary health centers, burn care center, local hospital, renovation of roads and expansion of roads, construction of toilet facilities						



S. No.	Activities	Proposed expenditure in project (INR in crores)					Total proposed Expenditure (INR in crores)
		1 st year	2 nd Year	3 rd Year	4 th year	5 th Year	
	etc.						
6	Provision of solar street lighting, green nurturing programs, implementation of swachhh bharat initiatives						
7	Contingency and monitoring						
	Total Expenditure	30	25	24	22	22	123

Note: M/s AEL vide letter dated 15.07.2022 has undertaken the following:

- I. To improve the proposed amount of Rs. 75 cr. to Rs. 123 Cr. for community activities through Adani Foundation which is a group level CSR agency to cover all points of public hearing including requirement to support / establish cancer hospital and burn care center in district / taluka center in the Kutch area, construction of overhead water tanks/RO water ATM centers in villages where it is needed for drinking water availability.
- II. All these community developmental activities will be focused in all 15 nearby villages.
- III. The impact assessment of CER activities will be conducted on yearly basis and summery shall be submitted along with compliance report to MoEF&CC.
- IV. The budget has been revised and increased in initial years in the plan to complete measure social activities within the project periods.

