



APSEZ/EnvCell/2018-19/058

Date: 23.11.2018

To

Additional Principal Chief Conservator of Forests (C),

Ministry of Environment, Forest and Climate Change,

Regional Office (WZ), E-5, Kendriya

Paryavaran Bhawan, Arera Colony,

Link Road No. – 3, Bhopal – 462 016.

E-mail: rowz.bpl-mef@nic.in

Sub : Half yearly Compliance report for Environment and CRZ Clearance for the "Multi Product SEZ, Desalination, Sea Water Intake, Outfall Facility and Pipeline at Mundra, Dist. Kachchh, Gujarat of M/s. Adani Ports and SEZ Limited"

Ref : Environment and CRZ clearance granted to M/s Adani Ports and SEZ Limited vide letter dated 15th July, 2014 bearing MoEF letter No. 10-138/2008-IA.III.

Dear Sir,

Please refer to the above cited reference for the said subject matter. In connection to the same, it is to state that copy of the compliance report for the Environmental / CRZ Clearance for the period of April – 2018 to September – 2018 is enclosed here for your records. The stated information is also provided in form of a CD (soft copy).

Thank you,

Yours Faithfully,

For, **M/s Adani Ports and Special Economic Zone Limited**

Avinash Rai

Chief Executive Officer

Mundra & Tuna Port

Encl: As above

Copy to:

- 1) The Director (IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003
- 2) Zonal Officer, Regional Office, CPCB – Western Region, Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara – 390 023
- 3) Member Secretary, GPCB – Head Office, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar – 382 010
- 4) Deputy Secretary, Forests & Environment Department, Block – 14, 8th floor, Sachivalaya, Gandhi Nagar – 382 010
- 5) Regional Officer, Regional Office GPCB (Kutch-East), Gandhidham, 370201

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Environmental Clearance Compliance Report

Multi Product SEZ,
Mundra, Dist. Kutch, Gujarat

Adani Ports and SEZ Limited

For the period of
April-2018 to September-2018

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

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	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Copy of Environmental and CRZ Clearance

F. No. 10-138/2008-IA.III
Government of India
Ministry of Environment & Forests

**Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi - 110 003.**

Dated: July 15, 2014

To
M/s Adani Port and SEZ Ltd
Adani House, Near Mithakhali Six Roads,
Navarangpura, Ahmedabad,
Gujarat- 380 009.

Subject: EC for proposed Multi- Product SEZ and CRZ clearance for Desalination, sea water intake, outfall facility and pipeline, at Mundra by M/s Adani Port and SEZ Ltd. – Reg.

This has reference to letter No. ENV-10-2010-1601-E dated 27.03.2012 of the Director (Environment) & Additional Secretary, Govt. of Gujarat and your subsequent letters dated 10.05.2012, 14.05.2012, 26.05.2012 and 29.04.2013 seeking prior Environmental and CRZ Clearance for the above project under the EIA Notification, 2006 and Coastal Regulation Zone Notification, 2011. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 and the Coastal Regulation Zone Notification, 2011 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, EIA, EMP, recommendations of the State Coastal Zone Management Authority and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meetings held on 16th -17th April, 2012, 4th -5th June, 2012 and 9th -10th July, 2012.

2. It is, interalia, noted that the project involves development of multi product SEZ on a plot area of 18,000 ha. of which 6641.2784 ha. is presently notified under Special Economic Zone (SEZ). As per the proponent, the Multi product SEZ at Mundra comprising of various processing zones, non-processing zones, warehousing zones, Road Network (trunk as well as internal), Bridges or culverts over natural drains, Rail Network, IT-Telecommunication network, Electrical Network, Water supply, conservation & drainage Network, Effluent collection network, Desalination Plant with proposed intake & outfall locations, Common Effluent Treatment Plants & Sewage Treatment Plants, Natural Gas line network, Social Infrastructure, Existing Airstrip, Municipal Solid Waste Disposal site, utilities & supporting infrastructure etc. For the first phase of development total water requirement will be 150 MLD. Power requirement will be approx. 360 MW. Desalination plant of 150 MLD output capacity is proposed. 11 MLD water will be sourced through Narmada water pipeline. Two CETP each of capacity 50 MLD and 17 MLD as well as STP of 62 MLD is proposed. This will require 375 MLD of seawater intake and 241 MLD of treated waste water outfall into the sea. For final phase of development total water requirement will be 450 MLD and power requirement will be approx. 1000 MW.



3. A suitable seawater intake point has been identified on the eastern end of the approved East Port Basin at Latitude 22°48'30.76"N; Longitude 69°46'34.06"E where a depth of 6 m below CD would be available after the port development. As per modelling study the combined discharge of 241MLD which includes 16MLD from CETP and 225 MLD from desalination plant as RO reject is expected having 57.57ppt of salinity, 14.41 mg / l of BOD and 94.39 mg/l of COD. After careful consideration of many aspects a suitable outfall location is identified on the west of the Eastern basin at Latitude 22°46'44.04"N; Longitude 69°45'5.51"E taking advantage of the expected 7.5m below CD basin depth. The outfall pipe line length is approximately 5.7 km and diffuser designed to attain a minimum dilution of 40-50 times.
4. The Centre for Earth Science Studies demarcated HTL, LTL and CRZ area. As per the CESS report and GCZMA, out of 6641.2784 ha of SEZ area, 1473.39 ha area falls within CRZ area. No SEZ industrial activity is proposed in the CRZ area. Only the Desalination plant pipeline for intake and outfall is proposed in CRZ areas. The Gujarat SCZMA in their 14th meeting held on 27-02-2012 considered the proposal of intake, outfall facilities, Desalination plant and laying pipeline and recommended the same vide their letter no.ENV-10-2010-1601-E dated 27th March 2012. Gujarat Pollution Control Board has granted Consent to Establishment of Marine outfall (NOC) vide letter dated 10.11.2011. The length of the intake will be approximately 5 Kms. As the sea water intake demand is 15000m³/h, drawal by pipe system is suitable by incorporating a wet well structure at the location. The intake point proposed is within the proposed East Port basin with a depth of 6 m below CD. The projected quantity of water can be transported through a single pipe of 1.3 m dia with a flow velocity of 3 m/ s or with a 1.6 m pipe with flow velocity of 2m/s.
5. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of Environment and CRZ Clearance for the SEZ in an area of 8481.2784 ha. However, SEZ for 1840 ha has been approved in principle by Ministry of Commerce and Industries.
6. Hon'ble High Court of Gujarat in WP No. 21 of 2013 vide order dated 13.01.2014 has directed that the Ministry to take a decision of its own so far as the issue of grant of environmental clearance is concerned considering the position prevailing as on date and also the aspects which have been highlighted by us in this judgment, within a period of thirty days from the date of this judgment without fail. Further, vide order dated 27.01.2014 Hon'ble Supreme Court in SLP No. 1526 of 2014 which was filed against the Order of High Court by the Respondent-1 has passed order that in case, the MOEF is unable to complete the process within the time stipulated by the High Court, it will be open for them to approach this Court for extension of time. Accordingly, Ministry has filed a petition before the Hon'ble Supreme Court seeking extension of two months time.
7. It is noted from the Judgement dated 13.01.2014 of Hon'ble High Court of Gujarat in PIL 21 of 2013 the Hon'ble Court has construed the grant of lease to units prior to



obtaining EC by M/s APSEZL as violation of EIA, Notification, 2006. Therefore, according to the OM's dated 12.12.2012 and 27.06.2013, PP was addressed for Board Resolution and the State Government was addressed to take credible action against the PP for the violation. Direction under Section 5 of E(P)Act, 1986 was also issued to APSEZ not to take up and allow any further construction activity within SEZ till the grant of clearance.

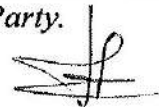
8. Further, Hon'ble Supreme Court video order dated 02.05.2014 in SLP 1526 of 2013 had ordered for stay of Ministry's letter dated 3.04.2014 addressed to Government of Gujarat to initiate legal action for the violation, also directed that the Ministry to complete the process of EC within eight weeks.

9. M/s APSEZ Ltd. has stated that the Board resolved that since the matter is sub-judice before the Hon'ble Supreme Court of India, will fully abide by the outcome of the decision of the Hon'ble Supreme Court.

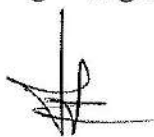
10. In view of the above and to comply with the orders of Hon'ble Courts, Ministry hereby accords necessary Environment Clearance for proposed Multi- Product SEZ in an area of 6641.2784 ha and CRZ clearance for desalination, seawater intake, outfall facility and pipeline for as per the provisions of Environmental Impact Assessment Notification – 2006 and its subsequent amendments and Coastal Regulation Zone Notification, 2011, subject to strict compliance of the terms and conditions as follows:

11. PART A - SPECIFIC CONDITIONS

- (i) *PP shall abide by the final order/decision of Hon'ble Supreme Court in SLP (Civil) no. 1526/2014 and connected matters.*
- (ii) *Properly conserve the creeks, river and the mangroves area in the area.*
- (iii) *Ensure that mouths of all the creeks are kept open to ensure flushing of the creeks.*
- (iv) *Bring the creeks to the condition as was seen in the satellite map of 2005 which will be a "reference" satellite map and a copy of which shall be sent to you separately.*
- (v) *Submit once in a year latest satellite map which can be compared with the reference satellite map of 2005 to ensure that no modification in the creeks, rivers, mangroves and mouth of creeks have taken place.*
- (vi) *Any direction issued by the MoEF with respect to the report submitted by Ms Sunita Narain Committee shall be complied with by the Proponent as applicable.*
- (vii) *At its cost get Inspection study done once in a year by the organizations like NEERI or any organization approved by this Ministry to - (i) ensure compliance of all the EC conditions (ii) development of SEZ meeting of the environment norms, and (iii) advise any mid-term correction that can be introduced depending on the recommendation of the independent Third Party.*



- (viii) "Consent for Establishment" for the SEZ shall be obtained from Gujarat Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.
- (ix) PP shall get detailed bathymetry done for all the creeks and rivers within Port and SEZ areas along with mapping of co-ordinates, running length, HTL, CRZ boundary, mangrove areas including buffer zone through NCSCM / NIOT. PP shall also get prepared a detailed action plan for conservation and protection of creeks/ mangrove area etc through NCSCM / NIOT and submit the same to GCZMA for their examination and recommendation. GCZMA will submit its recommendations to MoEF for approval.
- (x) PP shall demarcate the CRZ area on land with GPS coordinates in consultation with GCZMA/ the agency which has done the HTL/LTL demarcation for the area. There shall be no allotment of plot/s in CRZ area to industries. No industrial activity within CRZ area except the port and harbor & the foreshore facilities shall be allowed as committed
- (xi) Till the approval of action plan for conservation and protection of creeks/ mangrove area, the CRZ area within SEZ shall be demarcated as "No Development Zone". PP shall not allow/ undertake any development in CRZ area of SEZ.
- (xii) The implementation of action plan approved by the MoEF shall be monitored by the NCSCM/ NIOT. Compliance with action plan shall be submitted to GCZMA and to MoEF, RO. at Bhopal along with six monthly monitoring report.
- (xiii) PP shall earmark separate budget for the implementation of the above action plan. The details of the expenditure shall be submitted to GCZMA and to MoEF, RO. at Bhopal along with six monthly monitoring report.
- (xiv) All the industry in SEZ shall be connected through impervious drainage lines to the STP/ CETP for the discharge of their sewage or industrial effluent. There shall not be any discharge to creeks / rivers. PP shall be accountable for implementing this condition and necessary clause shall be incorporated in the MoU while allotting the plot to the individual industries
- (xv) PP shall not carry out any river course modification.
- (xvi) The individual industrial units shall obtain prior EC under EIA Notification, 2006 as applicable.
- (xvii) Proponent shall identify 200 ha of land for mangrove plantation as per the condition laid by SEAC.
- (xviii) 50 meter buffer from the existing mangrove area should be provided for any developmental activity,

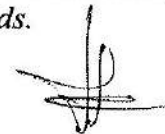


- (xix) *Proponent shall develop the green belt with 3 layers of canopy all along the periphery.*
- (xx) *All the recommendation of the EMP shall be complied with in letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEF along with half yearly compliance report to MoEF-RO.*
- (xxi) *There shall be no disturbance to the sand dunes. The pipelines shall be laid using advanced method viz. Horizontal Directional Drilling (HDD) so as to avoid disturbance to the sand dunes/ creeks/ mangroves.*

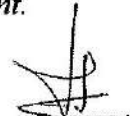
PART – B. GENERAL CONDITIONS

Construction Phase.

- (i) *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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.*
- (ii) *A First Aid Room will be provided in the project both during construction and operation of the project.*
- (iii) *All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.*
- (iv) *Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed, taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.*
- (v) *Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.*
- (vi) *Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.*
- (vii) *Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Gujarat Pollution Control Board.*
- (viii) *The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.*



- (ix) *The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.*
- (x) *Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.*
- (xi) *Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/GPCB.*
- (xii) *Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within 100 Kms of Thermal Power Stations).*
- (xiii) *Ready mixed concrete must be used in building construction.*
- (xiv) *Storm water control and its re-use should be regulated as per CGWB and BIS standards for various applications.*
- (xv) *Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other referred best practices.*
- (xvi) *Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.*
- (xvii) *Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.*
- (xviii) *Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.*
- (xix) *Use of glass may be reduced by upto 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.*
- (xx) *Roof should meet prescriptive requirements as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirements.*
- (xxi) *Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all airconditioned spaces while it is aspirational for non-airconditioned spaces by use of appropriate thermal insulation material to fulfil these requirement.*



- (xxii) *The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightning etc.*
- (xxiii) *Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.*
- (xxiv) *Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it is found that construction of the project has been started without obtaining environmental clearance.*

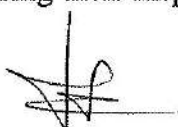
Operation Phase

- (i) *The PP while issuing the allotment letter to individual member units shall specifically mention the allowable maximum quantity of water usage and effluent generated by each member unit.*
- (ii) *The PP shall establish an environmental monitoring cell with all the potential polluting units as members to review the environmental monitoring data and suggest improvements.*
- (iii) *Treated affluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% grey water by decentralised treatment should be done. Discharge of unused treated affluent shall conform to the norms and standards of the Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.*
- (iv) *The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.*
- (v) *Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operational phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Low sulphur diesel should be used. The location of the DG sets may be decided in consultation with the Gujarat Pollution Control Board.*
- (vi) *Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.*
- (vii) *Green belt of adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.*



- (viii) *Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.*
- (ix) *Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented.*
- (x) *The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.*
- (xi) *Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.*
- (xii) *A Report on the energy conservation measures conforming to energy conservation norms finalised by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & D Factors etc and submitted to the Ministry along with six monthly monitoring report.*
- (xiii) *Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be an integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination. Solar panels may be used to the extent possible.*
- (xiv) *Adequate measures should be taken to prevent odour problems from solid waste processing plant and STP.*
- (xv) *The buildings should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.*
- (xvi) *The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.*
- (xvii) *Adequate drinking water facility be provided.*
- (xviii) *Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project.*
- (xix) *Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for portion of the apartments should be provided.*
- (xx) *Ozone depleting substance (Regulation & Control) Rules should be followed while designing the air conditioning system of the project.*

12. Officials from the Regional Office of MOEF, Bhopal who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the



documents submitted to MoEF should be forwarded to the CCF, Regional office of MOEF, Bhopal

13. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.

14. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

15. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

16. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.

17. The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Clearance and copies of clearance letters are available with the Gujarat Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <http://www.envfor.nic.in>. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal.

18. Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

19. "Any appeal against this 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".

20. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.

21. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.



22. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.

23. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.


(Lalit Kapur)
Director (IA-III)

Copy to:

1. The Principal Secretary, Forest and Environment Department, Block no. 14/ 8 floor Sachivalaya, Gandhinagar – 382 010 Gujarat.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 110 032.
3. The Member Secretary, Gujarat Coastal Zone Management Authority & Director,(Environment) Forests & Environment Department, Block No. 14, 8th Floor, Sachivalaya, GandhiNagar-382.
4. The Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No. 3, Ravishankar Nagar, Bhopal – 462016 (M.P.)
5. The Member Secretary, Gujarat State Pollution Control Board, Paryavaran Bhawan , Sector 10-A, Gandhi Nagar 382043, Gujarat
6. Director (EI), Ministry of Environment and Forests.
7. Guard File.
8. Monitoring File.

(Lalit Kapur)
Director (IA-III)

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Compliance Report of Environmental and CRZ Clearance

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

M/s. APSEZ has been granted Environmental / CRZ clearance vide letter no. 10-138/2008-IA.III, dated 15th July, 2014 for development of "Multi Product SEZ, Desalination, Sea Water Intake, Outfall Facility and Pipeline".

Activities / Facilities approved are as below:

Facilities / Components Approved	Capacity	Status as on 30.09.2018
Desalination Plant	150 MLD	Construction has not been started.
Sea water Intake & Outfall Facility	375 MLD: Intake 241 MLD: Outfall	Construction has not been started.
Common Effluent Treatment Plant	17 MLD	MPSEZ Utilities Pvt. Ltd. (MUPL) has been granted environmental clearance for CETP having 17.0 MLD capacities. Out of which at present one module of CETP having 2.5 MLD capacities has been constructed and is in operation.
	50 MLD	Construction has not been started.
Social Infrastructure Projects	--	Adani Mundra SEZ Infrastructure Pvt. Ltd. (AMSIPL) has granted environmental clearance for township and area development project in 255 Ha. Out of 10,000 no. of residential units, 1368 units are constructed.
Sewage Treatment Plant	62 MLD	APSEZ has installed Sewage Treatment Plant @ 150 KLD Capacities within SEZ for treatment of sewage generated from port user buildings.
Airstrip	--	Airstrip has been developed within SEZ area after obtaining requisite permissions.
Municipal Solid Waste Site	--	Material Recovery site is provided for the management of Municipal Solid Waste.
Free Trade & Ware House Zone (FTWZ)	--	Construction is completed and in operation.

Note:

Environmental / CRZ clearance has been granted for additional facilities like Processing Zones, Non-processing Zones, Warehousing Zones, Road Network (Trunk as well as Internal), Bridges or Culverts over natural drain, Rail Network, IT-Telecommunication Network, Electric Network, Water Supply, Conservation & Drainage Network, Effluent Collection Network and Utilities & Supporting Infrastructure within SEZ area.

Boundary wall is constructed along the project periphery. In some of areas level raising and area development of SEZ area, wherever required is also under progress.

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

List of Industrial Units within SEZ area

Sr. No.	Name of Unit	Nature of Business	Status
1	Skaps Industries (Unit – I & II)	Textile	In Operation
2	Terram Gosynthetics Pvt. Ltd.		In Operation
3	Ahlstrom Fibre Composite India Pvt. Ltd.		In Operation
4	Ashapura Garments		Not in Operation
5	Anjani Udyog Pvt. Ltd.		In Operation
6	Raa Overseas Pvt. Ltd.		Under Construction
7	Thermax Ltd.	Engineering	In Operation
8	Oilfield Warehouse Services Pvt. Ltd.	Ware House	In Operation
9	Oilfield Warehouse Services LLP		Under Construction
10	Avesta Eng. Pvt. Ltd.	Engineering	Not in Operation
11	MD equipment		Not in Operation
12	Alstom Bharat Forge Power Ltd. & Kalyani Alstom Power Ltd.		Under Construction
13	Dorf Ketel Specialty Catalyst Pvt. Ltd.	Chemical	In Operation
14	Oriental Carbon and Chemicals Ltd.		In Operation
15	Gujarat CREDO Alumina Chemicals Pvt. Ltd.		Under Construction
16	Aadi Oil Pvt. Ltd. (Mundra Oil)		In Operation
17	Garg Tubes Exports LLP		In Operation
18	Seabird Marine Services Pvt. Ltd.	CFS	In Operation
19	Honeycomb Logistics Pvt. Ltd.		In Operation
20	All Cargo Global Logistics Ltd.		In Operation
21	Mundhra CFS		In Operation
22	Saurashtra Containers Pvt. Ltd.		In Operation
23	Transworld Terminals Pvt. Ltd.		In Operation
24	Mundra International Container Terminal (DP World)		In Operation
25	Central Warehousing Corp. Ltd.		In Operation
26	Maruti Suzuki India Limited (PDI Yard)	Pre Delivery Inspection Yard	In Operation
27	Britannia Industries Limited	Food Products	In Operation
28	Mundra Solar Photo Voltaic Ltd.	Electronics Manufacturing Cluster	In Operation
29	Mundra Solar Technopark Pvt. Ltd.		In Operation
30	Vishakha Renewable Pvt Ltd		In Operation
31	Vishakha Solar Films Pvt Ltd		In Operation
32	Vishakha Metals Pvt Ltd		Under Construction
33	Empezar Logistics	Ware House	In Operation
34	Steinweige Sharaf		In Operation
35	Kerry Indev Logistic Pvt. Ltd.		In Operation
36	Fast Track CFS		In Operation
37	Adani Power (Mundra) Limited	Thermal Power Plant	In Operation
38	Samudra Township (including residential units, hospital, hotel, commercial complex, school etc.)	Social Infrastructure	In Operation
39	Mundra International Airport Pvt. Ltd.	Private Airstrip	In Operation
40	MPSEZ Utilities Pvt. Ltd.	Common Effluent Treatment Plant	In Operation

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Half yearly Compliance report of Environment Clearance for the project "Multi Product SEZ" and CRZ Clearance for the project "Desalination, Sea Water Intake, Outfall Facility and Pipeline at Mundra, Dist. Kachchh, Gujarat of M/s. Adani Ports and SEZ Limited" vide MoEF letter No. 10-138/2008-IA.III dated 15th July, 2014

Sr. No.	Conditions	Compliance Status as on 30-09-2018
Part – A: Specific Conditions		
i.	PP shall abide by the final order/decision of Hon'ble Supreme Court in SLP (Civil) no. 1526/2014 and connected matters.	<p>Point noted and will be complied.</p> <p>Vide order dated 14.07.2014, the Hon'ble Supreme Court directed MoEF&CC to complete the process of environmental clearance to the MSEZ project of APSEZ within eight weeks. MoEF&CC issued EC and CRZ clearance to the proposed project vide letter dated 15.07.2014. Hence, the SLP (Civil) no. 1526/2014 is deemed closed. Copy of the order is attached as Annexure – 1.</p>
ii.	Properly conserve the creeks, river and the mangroves area in the area.	<p>Complied.</p> <p>This reply covers condition no ii, iii, ix, x, xi, xii & xiii.</p> <p>Conservation of creeks and rivers:</p> <ul style="list-style-type: none"> • The prominent creek system (main creeks and small branches of creeks) in and around APSEZ are: (1) Kotdi (2) Baradimata (3) Navinal (4) Bocha (5) Mundra (Oldest port (Juna Bandar) leading to Bhukhi river). • Rivers passing through the APSEZ area are: (1) Khari (2) Nagmati (3) Phot (4) Bhukhi (5) Dhaneshwari (6) Buchiya (7) Jidal. • All the rivers passing through the SEZ area are dry throughout the year except for monsoon season. • All creeks as well as rivers are in existence allowing free flow of water and there is no filling or reclamation of any creek or river area. APSEZ has so far constructed 19 culverts having total length of approx. 1100 m with total cost of INR 20 Crores. Three RCC Bridges have also been constructed over Kotdi creek with total length of 230 m and cost of INR 10 Crores. Details were submitted along with compliance report submission for the period of Apr'17 to Sep'17. • From the APSEZ operations, there is no discharge of any sewage or effluent to the water streams. <p>Conservation of mangroves:</p> <ul style="list-style-type: none"> • In and around APSEZ, approx. 1800 ha. mangrove area was identified by NIO in an EIA report prepared the year 1998.

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018
		<ul style="list-style-type: none"> • Out of this 1800 ha area, 1254 ha area was further demarcated as potential mangrove conservation by NIO in the year 2008 (as part of the EIA report of WFDP). • It may be noted that the entire area of 1254 ha is not covered with mangroves. • Entire area is being conserved and there is no disturbance to the mangroves in this area. Measures such as restricted entry and regular surveillance have resulted in overall growth of mangroves within this area. • As per MoEF&CC directive, APSEZ entrusted NCSCM to demarcate mangroves in and around APSEZ area. As per their study, presently, mangrove cover in and around APSEZ is over 2340 ha. The analysis of the comparison between 2011 and 2016-17 has shown an overall growth of 246 ha. • NCSCM final report on comprehensive and integrated plan for preservation and conservation of mangroves and associated creeks in and around has been submitted to the concerned authorities i.e. MoEF&CC, New Delhi and GCZMA, Gandhinagar vide our letter dated 04.06.2018 and acknowledge copy of the same is attached here as Annexure – 2.
iii.	Ensure that mouths of all the creeks are kept open to ensure flushing of the creeks.	<p>Complied.</p> <ul style="list-style-type: none"> • The prominent creek system (main creeks and small branches of creeks) in and around APSEZ are: (1) Kotdi (2) Baradimata (3) Navinal (4) Bocha (5) Mundra (Oldest port (Juna Bandar) leading to Bhukhi river). • All above creek mouths are open allowing free flow of water in to the creeks and surrounding areas and there is no filling or reclamation of any creek area. • This aspect is also confirmed from the recent study of NCSCM which highlights the bathymetry data of the entire coast around APSEZ. • From the bathymetry data it can be concluded that there are sufficient depths at the creek mouths and all creek mouths are open allowing flushing of water.
iv.	Bring the creeks to the condition as was seen in the satellite map of 2005 which will be a "reference" satellite map and a copy of which shall be sent to you separately.	<p>Not applicable</p> <p>This reply covers condition no iv, v, vi.</p> <p>The stated conditions were stipulated in the EC and CRZ clearance with respect to the pending SCNs and based on Ms. Sunita Narain committee report. In continuation to the SCNs</p>

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018
v.	Submit once in a year latest satellite map which can be compared with the reference satellite map of 2005 to ensure that no modifications in the creeks, rivers, mangroves and mouth of creeks have taken place.	and subsequent submissions by APSEZ, MoEF&CC issued a final order vide letter dated 18.09.2015 (which disposed the pending Show Cause Notices). Full compliance of the directions issued vide the said order is provided as Annexure - B . It may be noted that the stated conditions related to the satellite image of 2005 are not imposed to APSEZ as part of the said order. Hence, APSEZ has made submission to MoEF&CC vide letters dated 23.05.2016 and 07.11.2016. Copies of the said letters were submitted along with compliance submission for the period from Oct'16 to Mar'17. Further there are no directions from MoEF&CC.
vi.	Any direction issued by the MoEF with respect to the report submitted by Ms Sunita Narain Committee shall be complied with by the Proponent as applicable.	
vii.	At its cost get Inspection study done once in a year by the organizations like NEERI or any organization approved by this Ministry to - (i) ensure compliance of all the EC conditions (ii) development of SEZ meeting of the environment norms, and (iii) advise any mid-term correction that can be introduced depending on the recommendation of the independent Third Party.	Complied. NEERI has been appointed to carry out the inspection study up to the year 2020 at a cost of INR 12 Lacs. Compliance report of the period from Oct'17 to March'18 was submitted to NEERI. Based on the site visit during period Apr'18 to Sep'18 as well as the said compliance report NEERI has given their feedback. No non-compliance is observed by NEERI. Copy of the same is annexed as Annexure - 3 .
viii.	"Consent for Establishment" for the SEZ shall be obtained from Gujarat Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.	Complied. Consent to Establish (CtE) is obtained for the project from Gujarat Pollution Control Board vide their letter no. GPCB/CCA-KUTCH-1044/ GPCB ID 31463/ 109800, dated 16.04.2012. Copy of the same was submitted to MoEF&CC, Regional Office, Bhopal vide our letter dated 05 th Aug, 2014. The CtE was also submitted with compliance report submission for the period Oct'15 to Mar'16. APSEZ has been granted Consent to Operate (CtO) from GPCB for common infrastructure facilities developed vide Order No.

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018
		AWH-88998, dated 26.10.2017. Copy of the same was submitted with compliance report submission for the period Apr'17 to Sep'17.
ix.	PP shall get detailed bathymetry done for all the creeks and rivers within Port and SEZ areas along with mapping of co-ordinates, running length, HTL, CRZ boundary, mangrove area including buffer zone through NCSCM /NIOT. PP shall also get prepared a detailed action plan for conservation and protection of creeks /mangrove area etc through NCSCM/NIOT and submit the same to GCZMA for their examination and recommendation. GCZMA will submit its recommendations to MoEF for approval.	<p>Complied</p> <p>Based on the MoEF&CC directions, APSEZ has entrusted NCSCM to carry out the detailed study. Scope of the study include the following:</p> <ul style="list-style-type: none"> • Detail bathymetry and topography survey of creeks • Demarcation of mangrove areas and buffer zone • Demarcation of HTL and CRZ areas with co-ordinates • Preparation of a comprehensive and integrated conservation plan for protection of creeks and mangroves <p>In order to complete the study, NCSCM has carried out number of site surveys which are mentioned below:</p> <ul style="list-style-type: none"> • Bathymetry survey of creeks • Topography survey of intertidal areas • Mangrove survey (health and area demarcation) • Sampling of soil and water for analysis of physico-chemical and biological parameters • Tide and currents data collection (including residence time of tidal water) study <p>Based on the study, the following points can be summarized:</p> <ul style="list-style-type: none"> • There is no obstruction to any water stream (creeks / branches of creeks / rivers) • Presently, mangrove cover in and around APSEZ is over 2340 ha. There is substantial growth in mangrove cover to the tune of 246 ha (comparison between 2011 and 2016-17) • Majority of the development at Mundra has happened between this tenure. Hence it can be interpreted that the infrastructure development has not left any adverse impacts on ecology. <p>The study report is submitted to GCZMA (with a copy to MoEF&CC) for their examination and recommendation. NCSCM final report on comprehensive and integrated plan for preservation and conservation of mangroves and associated creeks in and around has been submitted to the concerned authorities i.e. MoEF&CC, New Delhi and GCZMA, Gandhinagar vide our letter dated 04.06.2018 and acknowledge copy of the same is attached here as Annexure – 2. Please refer the</p>

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018
		survey maps in the report for interpretation of the details mentioned above. Cost of the study as per the NCSCM proposal is 315.5 Lakh. 90% of the payment against the proposal value is already paid to NCSCM.
x.	PP shall demarcate the CRZ area on land with GPS coordinates in consultation with GCZMA/ the agency which has done the HTL /LTL demarcation for the area. There shall be no allotment of plot/s in CRZ area to industries. No industrial activity within CRZ area except the port and harbor & the foreshore facilities shall be allowed as committed.	<p>Being complied</p> <p>Based on the MoEF&CC directions and in consultation with GCZMA, APSEZ has entrusted NCSCM for demarcation of HTL and CRZ areas. NCSCM has prepared the draft maps. Once the maps are finalized, they will be submitted to GCZMA and MoEF&CC for their examination and recommendation.</p> <p>In addition to that please note that</p> <ul style="list-style-type: none"> • There is no allotment of plot(s) in CRZ area to any industry. • Only those activities which are allowed within CRZ area are being carried out (with due approvals from concerned authorities) • No industrial activity within CRZ area except the port and harbor & the foreshore facilities are carried out.
xi.	Till the approval of action plan for conservation and protection of creeks /mangrove area, the CRZ area within SEZ shall be demarcated as "No Development Zone". PP shall not allow / undertake any development in CRZ area of SEZ.	<p>Complied</p> <p>The action plan for conservation of creeks and mangrove areas is prepared by NCSCM and the same is submitted to GCZMA and MoEF&CC for their examination and recommendation. The main action plan as per the study are mentioned summarized below:</p> <ul style="list-style-type: none"> • Monitoring of mangrove cover in Jan/Mar, 2020 using latest satellite images and validation with field observations • Monitoring of tidal range in the mangrove areas and comparison with the data collected during 2017 • Removal of silt / sand spits from the central part of navinal creek • Dredging of shallow area off Bocha Island to reduce current velocity. <p>These measures will be discussed with GCZMA and the same will be implemented after obtaining their approval. No development is carried out in the 'No Development Zone' (i.e. CRZ area of SEZ)</p>
xii.	The implementation of action plan approved by the MoEF shall be monitored by the NCSCM/NIOT. Compliance	<p>Point noted and will be complied</p> <p>The action plan for conservation of eco sensitive areas prepared by NCSCM is submitted to GCZMA and MoEF&CC for their approval. Implementation of the action plan will be</p>

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018
	with action plan shall be submitted to GCZMA and to MoEF, RO at Bhopal along with six monthly monitoring report.	carried out by APSEZ and same will be monitored by NCSCM and compliance report in this regard will be submitted to all the concerned authorities as part of the six monthly compliance report.
xiii.	PP shall earmark separate budget for the implementation of the above action plan. The details of the expenditure shall be submitted to GCZMA and to MoEF, RO at Bhopal along with six monthly monitoring report.	<p>Point noted and will be complied</p> <p>A separate budget will be allocated for implementation of this action plan and details of the same will be submitted as part of the six monthly compliance report.</p>
xiv.	All the industry in SEZ shall be connected through impervious drainage lines to the STP/CETP for the discharge of their sewage or industrial effluent. There shall not be any discharge to creeks / rivers. PP shall be accountable for implementing this condition and necessary clause shall be incorporated in the MoU while allotting the plot to the individual industries.	<p>Complied.</p> <p>As per the Lease Deed agreement, all existing industries are well connected with impervious pipeline to discharge their effluent / sewage after confirming to the inlet norms of CETP. Typical copy of the Lease Deed (Agreement) was submitted along with compliance report submission for the duration of Oct'16 to Mar'17.</p> <p>Entire quantity of treated wastewater from CETP is being utilized for horticulture purpose within SEZ area. No discharge is allowed in to creeks / rivers. Same practice will be continued in future as well and capacity enhancement of CETP will be carried out based on requirement.</p> <p>List of CETP member units were submitted along with last compliance report submission Apr'17 to Sep'17. And there is no further change.</p> <p>The industries which treat the sewage / effluent within their premises comply the stipulated norms of discharge given by GPCB. Through regular monitoring it is ensured by APSEZ that the treated water is used for gardening within the respective industries and there is no discharge to any water body including rivers or creeks.</p>
xv.	PP shall not carry out any river course modification.	<p>Complied</p> <p>The project was conceptualized in such a way that no river course modification is required to be carried out. All the rivers</p>

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018
		passing through SEZ are maintained through proper path for area drainage.
xvi.	The individual industrial units shall obtain prior EC under EIA Notification, 2006 as applicable.	<p>Complied.</p> <p>All industrial units coming up in within the SEZ are informed and aware about the said requirement. Out of total units established within SEZ, only APL & Dorf Ketel falls under purview of EIA Notification 2006 and they have obtained their specific EC as applicable. During the compliance period of Oct'17 to Mar'18, no new such industry has been established at SEZ which requires EC under EIA Notification, 2006. The condition is being followed on case to case basis as applicable.</p>
xvii.	Proponent shall identify 200 ha of land for mangrove plantation as per the condition laid by SEAC.	<p>Complied.</p> <p>100 Ha. Mangrove plantation is carried out by SAVE at Tala Tadav village of Khambhat Taluka of Anand district. A final report of SAVE was submitted along with half yearly compliance report for the period Apr'17 to Sep'17.</p> <p>100 Ha. Mangrove plantation is carried out by GEC. Out of 100 ha., 38 ha. plantation is completed at Tala Tadav village of Khambhat Taluka of Anand district during 2017-18. Remaining 62 ha. plantation is being carried out at Aliya Bet of Bharuch district during 2017-18. A progress report of GEC was submitted along with half yearly compliance report for the period Oct'17 to Mar'18.</p>
xviii.	50 meter buffer from the existing mangrove area should be provided for any developmental activity.	<p>Complied.</p> <p>50 meter buffer from the existing mangrove area as per the CRZ notification is being maintained and all developmental activities are being carried out as per the approval only.</p>
xix.	Proponent shall develop the green belt with 3 layers of canopy all along the periphery.	<p>Being complied.</p> <p>APSEZ has developed "Dept. of Horticulture" which is taking measures/ steps for terrestrial greening as well as mangrove plantation. Development of greenbelt at various locations within the SEZ is an ongoing activity. Green belt of 3 layer canopy will be developed as part of the development of SEZ.</p> <p>The species such as Ficus Infectoria, Ficus religiosa, Terminalia arjuna, Cocos nucifera, Washingtonia fillifera, Casurina spp., Azadirachta Indica, Eucalyptus spp., Jatropha curacus, Ficus bengalensis, Subabool spp., Casia fistula, Date</p>

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018																					
		<p>Palm and Delonix regia were grown in SEZ area.</p> <p>Width of the green belt varies from 2 m to 8 m and density varies from 2000 to 2500 trees per hectare at various locations. Total 114.7 hectares of land with approx. 2.5 Lacs trees is developed within SEZ area till date. So, far more than 450 ha. area is developed as greenbelt with plantation of more than 8.0 Lacs trees within the entire APSEZ area.</p> <p>Please refer Annexure - 4 for further details regarding greenbelt development and mangrove afforestation. An updated green belt development plan is also attached as part of the said annexure. Total expenditures of the horticulture dept. during the FY 2018-19 (Till Sep'18) are INR 299 lakh.</p> <p>It may be noted that individual industrial units will also developed the greenbelt within their premises based on their planning & approvals and new industries coming up any will also comply as per their approvals. The same will be ensured by the environment monitoring committee of APSEZ.</p> <p>For the area where further development is yet to be carried out, APSEZ will ensure that greenbelt with 3 layer canopy is developed by either APSEZ or the industrial unit to whom the land is allotted.</p>																					
xx.	All the recommendation of the EMP shall be complied with in letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEF along with half yearly compliance report to MoEF-RO.	<p>Complied.</p> <p>Compliance report of environmental management plan and mitigation measures proposed as part of the EIA report is summarized below. The same is submitted to the concerned authorities including MoEF&CC, RO, Bhopal as part of the six monthly compliance reports. Details of the past six compliance reports are mentioned below.</p> <table border="1"> <thead> <tr> <th>Sr. no.</th><th>Compliance period</th><th>Date of submission</th></tr> </thead> <tbody> <tr> <td>1</td><td>Apr'15 to Sep'15</td><td>30.11.2015</td></tr> <tr> <td>2</td><td>Oct'15 to Mar'16</td><td>30.05.2016</td></tr> <tr> <td>3</td><td>Apr'16 to Sep'16</td><td>01.12.2016</td></tr> <tr> <td>4</td><td>Oct'16 to Mar'17</td><td>30.05.2017</td></tr> <tr> <td>5</td><td>Apr'17 to Sep'17</td><td>01.12.2017</td></tr> <tr> <td>6</td><td>Oct'17 to Mar'18</td><td>01.05.2018</td></tr> </tbody> </table> <p>Summary of the compliance to the measures suggested in</p>	Sr. no.	Compliance period	Date of submission	1	Apr'15 to Sep'15	30.11.2015	2	Oct'15 to Mar'16	30.05.2016	3	Apr'16 to Sep'16	01.12.2016	4	Oct'16 to Mar'17	30.05.2017	5	Apr'17 to Sep'17	01.12.2017	6	Oct'17 to Mar'18	01.05.2018
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1	Apr'15 to Sep'15	30.11.2015																					
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	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018
		EMP are given in Annexure – 5.
xxi.	There shall be no disturbance to the sand dunes. The pipelines shall be laid using advanced method viz. Horizontal Directional Drilling (HDD) so as to avoid disturbance to the sand dunes/creeks/mangroves.	Complied. There is no sand dune in the SEZ area. Point noted. No pipelines for intake and outfall of sea water are laid till now and same will be studied as and when required.
Part – B: General Conditions		
	Construction Phase	
i	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.	Not applicable at present. Most of the construction labours reside in the nearby villages where all basic facilities are easily available. There are no housing requirements for labours inside the project area.
ii	A first aid room will be provided in the project both during construction and operation of the project.	Complied. APSEZ has established Occupational Health Center & First Aid facility, which will be utilized during entire construction as well as operation phase of SEZ project. In case of emergency situation requiring higher level of treatment, the facilities at Adani hospital located with SEZ area can be utilized.
iii	All the topsoil excavated during construction phase should be stored for use in horticulture/landscape development within the project site.	Complied. Excavated topsoil, if any, will be used for the horticulture /landscape development within the project site.
iv	Disposal of muck during construction phase	Complied.

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018																																																																																																																								
	should not create any adverse effect on the neighboring communities and be disposed, taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	No excavated muck has been generated and disposed-off. Construction waste, if any, is utilized for area development within the project site.																																																																																																																								
v	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	<p>Complied.</p> <p>Environment Monitoring is being carried out on regular basis in Port & SEZ areas through NABL accredited and MoEF&CC approved agency namely M/s. Pollucon Laboratories Pvt. Ltd. Summary of the ground water as well as soil assessment for duration from Apr'18 to Sep'18 is mentioned below.</p> <p>Bore Hole Water Sampling: Sampling locations & frequency: 3 nos. (every quarter)</p> <table><tr><th>Sr. No.</th><th>Parameter</th><th>Unit</th><th>Max. Value</th><th>Min. Value</th></tr><tr><td>1</td><td>pH</td><td>--</td><td>7.9</td><td>6.98</td></tr><tr><td>2</td><td>Lead as Pb</td><td>mg/L</td><td>0.16</td><td>0.011</td></tr><tr><td>3</td><td>Nickel as Ni</td><td>mg/L</td><td>BDL*</td><td>BDL*</td></tr><tr><td>4</td><td>Total Chromium as Cr</td><td>mg/L</td><td>0.016</td><td>0.005</td></tr><tr><td>5</td><td>Iron as Fe</td><td>mg/L</td><td>11.6</td><td>0.048</td></tr><tr><td>6</td><td>Insecticides/Pesticides</td><td>mg/L</td><td>BDL*</td><td>BDL*</td></tr><tr><td>7</td><td>Depth of Water Level from GL</td><td>meter</td><td>2.6</td><td>1.7</td></tr><tr><td>8</td><td>Salinity</td><td>ppt</td><td>37.7</td><td>0.7</td></tr><tr><td>9</td><td>Oil & Grease</td><td>mg/L</td><td>1.8</td><td>1.6</td></tr><tr><td>10</td><td>Hydrocarbon</td><td>mg/L</td><td>BDL*</td><td>BDL*</td></tr><tr><td>11</td><td>Arsenic as As</td><td>mg/L</td><td>BDL*</td><td>BDL*</td></tr><tr><td>12</td><td>Cadmium as Cd</td><td>mg/L</td><td>BDL*</td><td>BDL*</td></tr><tr><td>13</td><td>Mercury as Hg</td><td>mg/L</td><td>BDL*</td><td>BDL*</td></tr><tr><td>14</td><td>Zinc as Zn</td><td>mg/L</td><td>1.54</td><td>0.016</td></tr><tr><td>15</td><td>Copper as Cu</td><td>mg/L</td><td>0.48</td><td>0.011</td></tr></table> <p>*BDL = Below Detectable Limit</p> <p>Comparison of the present data with baseline data for the nearest locations for Soil.</p> <table><tr><th>Sr. No.</th><th>Parameter</th><th>Unit</th><th>Dhrub station</th><th>Zarpara village</th></tr><tr><td>1</td><td>pH</td><td>--</td><td>7.41</td><td>8.1</td></tr><tr><td>2</td><td>Lead as Pb</td><td>mg/L</td><td>0.092</td><td>BDL</td></tr><tr><td>3</td><td>Nickel as Ni</td><td>mg/L</td><td>BDL</td><td>0.146</td></tr><tr><td>4</td><td>Total Chromium as Cr</td><td>mg/L</td><td>0.017</td><td>0.039</td></tr><tr><td>5</td><td>Iron as Fe</td><td>mg/L</td><td>0.29</td><td>0.258</td></tr><tr><td>6</td><td>Insecticides/Pesticides</td><td>mg/L</td><td>BDL</td><td>BDL</td></tr><tr><td>7</td><td>Depth of Water Level from GL</td><td>meter</td><td>2.6</td><td>1.7</td></tr></table>	Sr. No.	Parameter	Unit	Max. Value	Min. Value	1	pH	--	7.9	6.98	2	Lead as Pb	mg/L	0.16	0.011	3	Nickel as Ni	mg/L	BDL*	BDL*	4	Total Chromium as Cr	mg/L	0.016	0.005	5	Iron as Fe	mg/L	11.6	0.048	6	Insecticides/Pesticides	mg/L	BDL*	BDL*	7	Depth of Water Level from GL	meter	2.6	1.7	8	Salinity	ppt	37.7	0.7	9	Oil & Grease	mg/L	1.8	1.6	10	Hydrocarbon	mg/L	BDL*	BDL*	11	Arsenic as As	mg/L	BDL*	BDL*	12	Cadmium as Cd	mg/L	BDL*	BDL*	13	Mercury as Hg	mg/L	BDL*	BDL*	14	Zinc as Zn	mg/L	1.54	0.016	15	Copper as Cu	mg/L	0.48	0.011	Sr. No.	Parameter	Unit	Dhrub station	Zarpara village	1	pH	--	7.41	8.1	2	Lead as Pb	mg/L	0.092	BDL	3	Nickel as Ni	mg/L	BDL	0.146	4	Total Chromium as Cr	mg/L	0.017	0.039	5	Iron as Fe	mg/L	0.29	0.258	6	Insecticides/Pesticides	mg/L	BDL	BDL	7	Depth of Water Level from GL	meter	2.6	1.7
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	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018																																																																																																																																																																					
		<p>Soil Sampling: Sampling locations & frequency: 4 nos. (Half Yearly)</p> <table><tr><th>Sr. No.</th><th>Parameter</th><th>Unit</th><th>Max. Value</th><th>Min. Value</th></tr><tr><td>1</td><td>pH</td><td>--</td><td>8.78</td><td>7.68</td></tr><tr><td>2</td><td>Nitrogen as N</td><td>%</td><td>0.046</td><td>0.02</td></tr><tr><td>3</td><td>Phosphorus as P</td><td>mg/kg</td><td>310</td><td>98</td></tr><tr><td>4</td><td>Potassium as K</td><td>mg/kg</td><td>74</td><td>24</td></tr><tr><td>5</td><td>Calcium as Ca</td><td>mg/kg</td><td>750</td><td>40.2</td></tr><tr><td>6</td><td>Magnesium as Mg</td><td>mg/kg</td><td>622</td><td>7.2</td></tr><tr><td>7</td><td>Iron as Fe</td><td>%</td><td>1.2</td><td>0.36</td></tr><tr><td>8</td><td>Organic Matter</td><td>%</td><td>0.16</td><td>0.084</td></tr><tr><td>9</td><td>CEC</td><td>meq/100 gm</td><td>7.2</td><td>5.2</td></tr><tr><td>10</td><td>Moisture</td><td>%</td><td>12.2</td><td>3.96</td></tr><tr><td>11</td><td>Baron as B</td><td>mg/kg</td><td>1.8</td><td>1.2</td></tr><tr><td colspan="5">Heavy Metal</td></tr><tr><td>12</td><td>Cadmium as Cd</td><td>mg/kg</td><td>ND*</td><td>ND*</td></tr><tr><td>13</td><td>Antimony as Sb</td><td>mg/kg</td><td>ND*</td><td>ND*</td></tr><tr><td>14</td><td>Arsenic as As</td><td>mg/kg</td><td>ND*</td><td>ND*</td></tr><tr><td>15</td><td>Lead as Pb</td><td>mg/kg</td><td>ND*</td><td>ND*</td></tr><tr><td>16</td><td>Chromium as Cr</td><td>mg/kg</td><td>ND*</td><td>ND*</td></tr><tr><td>17</td><td>Cobalt as Co</td><td>mg/kg</td><td>5.3</td><td>1.6</td></tr><tr><td>18</td><td>Copper as Cu</td><td>mg/kg</td><td>14.6</td><td>4.2</td></tr><tr><td>19</td><td>Nickel as Ni</td><td>mg/kg</td><td>74.9</td><td>16.2</td></tr><tr><td>20</td><td>Manganese as Mn</td><td>mg/kg</td><td>320</td><td>110</td></tr><tr><td>21</td><td>Vanadium as V</td><td>mg/kg</td><td>18.2</td><td>9.6</td></tr></table> <p style="text-align: right;">*ND = Not Detected</p> <p>Comparison of the present data with baseline data for the nearest locations for Soil</p> <table><tr><th>Sr. No.</th><th>Parameter</th><th>Unit</th><th>Dhrub station</th><th>Zarpara village</th></tr><tr><td>1</td><td>pH</td><td>--</td><td>7.43</td><td>6.45</td></tr><tr><td>2</td><td>Nitrogen as N</td><td>%</td><td>0.0067</td><td>1.38 gm/kg</td></tr><tr><td>3</td><td>Phosphorus as P</td><td>mg/kg</td><td>134</td><td>1230</td></tr><tr><td>4</td><td>Potassium as K</td><td>mg/kg</td><td>52</td><td>62120</td></tr><tr><td>5</td><td>Calcium as Ca</td><td>mg/kg</td><td>550</td><td>1500</td></tr><tr><td>6</td><td>Magnesium as Mg</td><td>mg/kg</td><td>60</td><td>1580</td></tr><tr><td>7</td><td>Iron as Fe</td><td>%</td><td>0.53</td><td>1.34</td></tr><tr><td>8</td><td>Organic Matter</td><td>%</td><td>0.038</td><td>0.98</td></tr><tr><td>9</td><td>CEC</td><td>meq/100 gm</td><td>8.1</td><td>7.4</td></tr></table> <p>From the above results it can be inferred that</p> <ul style="list-style-type: none">• The ground level in this area is saline in nature due to close proximity to the coast.• There is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.• There is no leaching of heavy metals and other toxic contaminants through soil. <p>Please refer Annexure – 6 for detailed analysis reports. Approx. INR 12.5 Lakh is spent for all environmental monitoring activities during the FY 2018-19 (Till Sep’18).</p>	Sr. No.	Parameter	Unit	Max. Value	Min. Value	1	pH	--	8.78	7.68	2	Nitrogen as N	%	0.046	0.02	3	Phosphorus as P	mg/kg	310	98	4	Potassium as K	mg/kg	74	24	5	Calcium as Ca	mg/kg	750	40.2	6	Magnesium as Mg	mg/kg	622	7.2	7	Iron as Fe	%	1.2	0.36	8	Organic Matter	%	0.16	0.084	9	CEC	meq/100 gm	7.2	5.2	10	Moisture	%	12.2	3.96	11	Baron as B	mg/kg	1.8	1.2	Heavy Metal					12	Cadmium as Cd	mg/kg	ND*	ND*	13	Antimony as Sb	mg/kg	ND*	ND*	14	Arsenic as As	mg/kg	ND*	ND*	15	Lead as Pb	mg/kg	ND*	ND*	16	Chromium as Cr	mg/kg	ND*	ND*	17	Cobalt as Co	mg/kg	5.3	1.6	18	Copper as Cu	mg/kg	14.6	4.2	19	Nickel as Ni	mg/kg	74.9	16.2	20	Manganese as Mn	mg/kg	320	110	21	Vanadium as V	mg/kg	18.2	9.6	Sr. No.	Parameter	Unit	Dhrub station	Zarpara village	1	pH	--	7.43	6.45	2	Nitrogen as N	%	0.0067	1.38 gm/kg	3	Phosphorus as P	mg/kg	134	1230	4	Potassium as K	mg/kg	52	62120	5	Calcium as Ca	mg/kg	550	1500	6	Magnesium as Mg	mg/kg	60	1580	7	Iron as Fe	%	0.53	1.34	8	Organic Matter	%	0.038	0.98	9	CEC	meq/100 gm	8.1	7.4
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	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018
vi	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.	<p>Complied.</p> <p>Construction spoils including bituminous material is being kept at identified temporary storage area outside CRZ and is being utilized for area development purpose as and when required.</p> <p>Hazardous materials such as diesel, lube oil etc. are handled with utmost care and all applicable rules are followed. Storage area is provided with paving and spill kit to ensure there is no contamination to soil or ground water.</p> <p>Used oil is sold to GPCB approved recycler namely M/s. Western India Petrochem Industries, Bhavnagar. Oily rags are being disposed through co-processing at cement industries namely M/s. Sanghi Industries Ltd., Kutch and / or Recycling Solutions Pvt. Ltd., Panoli. Dates of validity of all the vendors and copy of agreement are attached as Annexure - 7 Necessary approvals from GPCB for disposal of hazardous wastes are obtained. Authorization copy was submitted with compliance report submission for the period Apr'17 to Sep'17.</p> <p>Individual units within SEZ are handling their hazardous wastes as per Hazardous waste rules – 2016 after obtaining necessary permissions from GPCB.</p>
vii	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Gujarat Pollution Control Board.	<p>Complied.</p> <p>All the hazardous wastes are being handled as per Hazardous Waste Rules – 2016.</p> <p>Please refer Point No. vi (General Condition: Construction Phase) for further details.</p>
viii	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.	<p>Complied.</p> <p>DG sets are being used only as power back up source in case of power failure. Presently, cumulative capacity of all DG sets installed at APSEZ is 4843 KVA. During the compliance period of Apr'18 to Sep'18, there was no instance of power failure hence it was not required to operate the DG sets.</p> <p>All the DG sets are of low sulphur diesel type. Certificate showing Sulphur content in diesel is attached as Annexure - 8. DG sets are being used in conformance to the EPA norms</p>

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Conditions	Compliance Status as on 30-09-2018																									
		and proof for the same was submitted along with last compliance period i.e. Apr'17 to Sep'17.																									
ix	The diesel required for operating DG sets shall be stored in underground tanks if required; clearance from Chief Controller of Explosives shall be taken.	<p>Complied.</p> <p>Diesel is stored in the underground tank located in existing port area and approval of the same from Chief Controller of Explosives is obtained from PESO with License no. P/WC/GJ/14/4671 (P291058) dated 18.12.2015 and is valid till 31.12.2018. Copy of Certificate from CCE was provided in compliance submission for the period of April'16 to Sep'16 and there is no further change.</p>																									
x	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should operate only during non-peak hours.	<p>Complied.</p> <p>The vehicles of on-going construction work enter inside the premises only after passing through the fitness check at vehicle health-check centre established by APSEZ. At the vehicle health check-up centre, parking light, reverse light, Horne, wheel, breaks, mirror, etc. are checked before allowing the vehicle to enter the site.</p> <p>APSEZ has also established a licenced PUC station to monitor the compliance with applicable Motor Vehicle Act for vehicles. Photographs of the health check-up centre and PUC station are attached as Annexure – 9.</p> <p>Majority of the vehicles bringing construction materials are operated during non-peak hours.</p>																									
xi	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/GPCB.	<p>Complied.</p> <p>Ambient Air Quality and Noise monitoring are being carried out by NABL accredited and MoEF&CC authorized agency namely M/s. Pollucon Laboratories Pvt. Ltd. Summary of the same for duration from Apr'18 to Sep'18 is mentioned below.</p> <p>Air sampling locations & frequency: 8 nos. (twice a week) & Noise sampling locations & frequency: 5 nos. (once in a month)</p> <table><tr><th>Parameter</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm. Limit^s</th></tr><tr><td>PM₁₀</td><td>µg/m³</td><td>95.71</td><td>42.60</td><td>100</td></tr><tr><td>PM_{2.5}</td><td>µg/m³</td><td>55.54</td><td>15.54</td><td>60</td></tr><tr><td>SO₂</td><td>µg/m³</td><td>25.65</td><td>5.37</td><td>80</td></tr><tr><td>NO₂</td><td>µg/m³</td><td>45.35</td><td>15.31</td><td>80</td></tr></table>	Parameter	Unit	Max	Min	Perm. Limit ^s	PM ₁₀	µg/m ³	95.71	42.60	100	PM _{2.5}	µg/m ³	55.54	15.54	60	SO ₂	µg/m ³	25.65	5.37	80	NO ₂	µg/m ³	45.35	15.31	80
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	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
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Sr. No.	Conditions	Compliance Status as on 30-09-2018				
		Noise	Unit	Max	Min	Perm. Limit
		Day Time	dB(A)	74.1	47.7	75
		Night Time	dB(A)	68.5	46.6	70
		[§] as per NAAQ standards, 2009 Values recorded confirms to the stipulated standards.				
		<p>Such environmental monitoring is being carried out on continuous basis at stipulated frequencies. The analysis results are being closely observed for incremental pollution load. From the above results and past data, it can be inferred that the emission levels are well within the prescribed standards. All the analysis data collected are submitted to the concerned authorities as part of the six monthly compliance reports. The data is also submitted to GPCB on monthly basis as part of the online submission – Monthly Patrak.</p> <p>Please refer Annexure – 6 for detailed analysis reports and accreditation certificates. Approx. INR 12.5 Lakh is spent for all environmental monitoring activities during the FY 2018-19 (Till Sep'18).</p> <p>Following safeguard measures are taken for abatement of dust and noise emissions.</p> <ul style="list-style-type: none"> • Regular sprinkling on road and other open area • Regular cleaning of roads • Development of greenbelt along the periphery of the storage yards/back up area • D.G. Sets having Acoustic enclosures 				
xii	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27 th August, 2003. (The above condition is applicable only if the project site is located within 100 Kms of Thermal Power Stations).	<p>Complied.</p> <p>Part of fly ash generated from Adani Power Limited, Mundra is being utilized by Adani Group to manufacture paver blocks and the same paver blocks are used for development of back up area, footpath, colonies area, parking area, approach road etc.</p> <p>APSEZ has utilized 978 MT of fly ash to manufacture paver block during the period of Apr'18 to Sep'18. Please refer Annexure – 10 for methodology and photographs of manufacturing.</p> <p>Fly ash based PPC cement is used for construction activity.</p>				
xiii	Ready mixed concrete must be used in building	Complied.				

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Sr. No.	Conditions	Compliance Status as on 30-09-2018
	construction.	Only RMC is used for construction activity.
xiv	Storm water control and its re-use should be regulated as per CGWB and BIS standards for various applications.	<p>Complied.</p> <p>Storm water drainage systems are provided. There are no perennial rivers and the possibility of storm water run-off is only during monsoon season. The area is receiving scanty rainfall and there is no continuous flow of water during monsoon. Therefore presently, the storm water drainage is designed to facilitate the area drainage meeting with the downstream part of water area.</p>
xv	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other referred best practices.	<p>Complied.</p> <p>Only RMC is used for construction activity.</p>
xvi	Permission to draw ground water shall be obtained from the competent Authority prior to construction /operation of the project.	<p>Complied.</p> <p>No ground water is used during construction & operation stage of the project. Current sources of water are Narmada water through GWIL and desalination plant of APSEZ. Average water requirement is approx. 4.7 MLD during the period Apr'18 to Sep'18.</p>
xvii	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	<p>Not applicable</p> <p>As per the master planning all types of waste water generated are transferred through common conveying system for providing desired treatment at CETP. Treated waste water is utilized for gardening purpose within the premises of APSEZ / individual industries.</p> <p>It may be noted that condition number xvi to xxi are imposed on all member industries coming up within the SEZ areas (as part of the Lease Deed agreement). The same practice will continue in future also. As suggested by RO, Bhopal during the site visit, an environment monitoring committee is formed which will ensure strict compliance of the stipulated conditions by individual industries.</p>
xviii	Fixtures for shower, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based	<p>Complied.</p> <p>Water flow reducers are installed at various locations within APSEZ. The water flow reducers consume approx. 66% less water compared to the normal tap. Water free urinals are also installed at Port User Buildings for water conservation. In</p>

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	control.	phase wise manner, all the fixtures will be replaced with such water efficient devices.
xix	Use of glass may be reduced by up to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Complied Majority of the building envelopes are constructed with energy efficient building materials. While using glass, wherever required, it is ensured that only high quality glass with reflective coating is used.
xx	Roof should meet prescriptive requirements as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirements.	Complied Majority of the building envelopes (including roofs) are constructed with ECBC compliant building materials having appropriate thermal insulation.
xxi	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfil these requirement.	Complied Majority of the building envelopes (including walls) are constructed with ECBC compliant building materials having appropriate thermal insulation.
xxii	The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of firefighting equipments, etc. as per National Building Code including protection measures from lightning etc.	Complied Mundra falls in seismic zone V. All the building structures constructed, if any, will meet the requirements of the applicable guidelines for safety. The same practice will continue in future also. However, being a developer no buildings are constructed by APSEZ.
xxiii	Regular supervision of the	Complied.

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Sr. No.	Conditions	Compliance Status as on 30-09-2018
	above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	<p>SEZ industries were visited to check measures taken for Energy Conservation, Water Conservation, Waste and Hazardous waste management and phase out plan of Ozone depleting substance during the compliance period. Various industries shared the data in line with above reference. Such supervision will be undertaken once in every six months. Please refer Annexure – 11 for a typical sample of the data collection sheet from an industry within SEZ.</p> <p>It may be noted that condition number xvi to xxi are imposed on all member industries coming up within the SEZ areas (as part of the Lease Deed agreement). The same practice will continue in future also. As suggested by RO, Bhopal during the site visit, an environment monitoring committee is formed which will ensure strict compliance of the stipulated conditions by individual industries.</p>
xxiv	Under the provisions of Environment (Protection) Act 1986, legal action shall be initiated against the project proponent if it is found that construction of the project has been started without obtaining environmental clearance.	<p>Point noted.</p> <p>Wherever applicable, construction activities have started only after obtaining environmental clearance.</p>
	Operation Phase	
i.	The PP while issuing the allotment letter to individual member units shall specifically mention the allowable maximum quantity of water usage and effluent generated by each member unit.	<p>Complied.</p> <p>Provisions are made while issuing the allotment letter to individual member units for specifically mentioning the allowable maximum quantity of water usage and effluent generated by each member unit. Sample copy of one of such letter was submitted along with compliance report submission for the period Oct'16 to Mar'17.</p>
ii.	The PP shall establish an environmental monitoring cell with all the potential polluting units as members to review the environmental monitoring data and suggest improvements.	<p>Complied.</p> <p>APSEZ has a well structured Environment Management Cell, staffed with qualified manpower for reviewing the environmental monitoring data and suggest improvements. Environment Management Cell organogram was submitted along with last half yearly compliance report for the period Apr'18 to Sep'18. And there is no further change.</p> <p>Separate budget for the Environment protection measures is</p>

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		<p>earmarked every year. All environment and horticulture activities are considered at corporate level and budget allocation is done accordingly. No separate bank account is maintained for the same however, all the expenses are recorded in advanced accounting system of the organization.</p> <p>Budget for environmental management measures (including horticulture) for the FY 2018-19 is to the tune of INR 1080 lakh. Out of which, Approx. INR 516 lakh are spent during the FY 2018-19 (Till Sep'18). Detailed breakup of the expenditures is attached as Annexure – 12.</p> <p>Please refer Point No. xxiii (General Condition: Construction Phase) for further details.</p>																											
iii.	Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards of the Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.	<p>Complied.</p> <p>APSEZ has total installed capacity of 5.6 MLD for treatment of effluent / sewage generated at various locations. Details regarding the same are mentioned below. The treated sewage from these decentralized units meets the norms stipulated by GPCB and it is used for gardening purpose.</p> <table border="1"> <thead> <tr> <th>Location</th><th>Capacity</th><th>Technology</th></tr> </thead> <tbody> <tr> <td>CETP</td><td>2.5 MLD</td><td>Aerobic Digestion</td></tr> <tr> <td>Shantivan Colony STP</td><td>350 KLD</td><td>Aerobic Digestion</td></tr> <tr> <td>Shantivan Colony STP</td><td>250 KLD</td><td>Aerobic Digestion</td></tr> <tr> <td>Adani House STP</td><td>150 KLD</td><td>PVA Gel Technology</td></tr> <tr> <td>Samudra Township STP</td><td>2.0 MLD</td><td>MBR</td></tr> <tr> <td>Adani Hospital STP</td><td>30.0 KLD</td><td>Aerobic Digestion</td></tr> <tr> <td>Liquid Terminal ETP</td><td>265 KLD</td><td>Aerobic Digestion</td></tr> <tr> <td>West Port STP</td><td>55.0 KLD</td><td>FAB</td></tr> </tbody> </table> <p>CETP of 2.5 MLD capacity is also constructed in SEZ area (having a separate independent environmental clearance). Sewage generated from individual industry is treated by individual industry itself. However, some of the industries are giving their sewage to the CETP for treatment and final disposal. List of CETP member units were submitted along with last compliance report submission Apr'17 to Sep'17. And there is no further change.</p> <p>The treated effluent from CETP confirms to the GPCB norms. Treated water is used for gardening / horticulture purpose within CETP premises and SEZ areas. Online monitoring</p>	Location	Capacity	Technology	CETP	2.5 MLD	Aerobic Digestion	Shantivan Colony STP	350 KLD	Aerobic Digestion	Shantivan Colony STP	250 KLD	Aerobic Digestion	Adani House STP	150 KLD	PVA Gel Technology	Samudra Township STP	2.0 MLD	MBR	Adani Hospital STP	30.0 KLD	Aerobic Digestion	Liquid Terminal ETP	265 KLD	Aerobic Digestion	West Port STP	55.0 KLD	FAB
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Sr. No.	Conditions	Compliance Status as on 30-09-2018																														
		<p>system at the discharge point is provided to get the system alert in case of any deviation from discharge norms.</p> <p>Assessment of treated sewage is being carried out by NABL accredited and MoEF&CC approved agency namely M/s. Pollucon Laboratories Pvt. Ltd. The summary of analysis results is mentioned below.</p> <p>Treated Water Analysis (Frequency Twice in a Month)</p> <table><tr><th>Parameter</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm. Limit^s</th></tr><tr><td>pH</td><td>--</td><td>7.28</td><td>6.56</td><td>6.5 – 8.5</td></tr><tr><td>TSS</td><td>mg/L</td><td>26</td><td>14</td><td>100</td></tr><tr><td>BOD (3 Days @ 27 °C)</td><td>mg/L</td><td>20</td><td>12</td><td>30</td></tr><tr><td>Residual Chlorine</td><td>ppm</td><td>0.8</td><td>0.6</td><td>Min 0.5</td></tr><tr><td>Fecal Coliform</td><td>MPN/100 ml</td><td>920</td><td>84</td><td>< 1000</td></tr></table> <p>^s as per CC&A granted by GPCB</p> <p>Please refer Annexure – 6 for detailed analysis reports. Approx. INR 12.5 Lakh is spent for all environmental monitoring activities during the period FY 2018-19 (Till Sep’18).</p> <p>Greenbelt area developed around the treatment plants act as barrier for odour. In addition to this, regular supervision is done to ensure there is no odour problem from any of the treatment plants.</p>	Parameter	Unit	Max	Min	Perm. Limit ^s	pH	--	7.28	6.56	6.5 – 8.5	TSS	mg/L	26	14	100	BOD (3 Days @ 27 °C)	mg/L	20	12	30	Residual Chlorine	ppm	0.8	0.6	Min 0.5	Fecal Coliform	MPN/100 ml	920	84	< 1000
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iv.	The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	<p>Complied.</p> <p>Waste Management – APSEZ has adopted 5R concept for environmentally sound management of different types of solid & liquid wastes. Please refer below details about management of each type of waste.</p> <p><u>Municipal Solid Waste:</u> A well-established system for segregation of dry & wet waste is in place. All wet waste (Organic waste) is being segregated & utilized for compost manufacturing. The compost is further used by in house horticulture team for greenbelt development. Whereas dry recyclable waste is being sorted in various categories. Presently manual sorting is being done for sorting of different types of solid waste. Segregated recyclable materials such as Paper, Plastic, Cardboard, PET Bottles, Glass etc. are then sent to respective recycling units, whereas remaining non-recyclable waste is bailed and sent to cement plant (M/s.</p>																														

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Sr. No.	Conditions	Compliance Status as on 30-09-2018																																				
		<p>Sanghi Industries Ltd.) for Co-processing as RDF (Refused Derived Fuel).</p> <p><u>Hazardous Waste:</u></p> <ul style="list-style-type: none"> E – Waste & Used Batteries are being sold to GPCB registered recyclers namely M/s. e-Processing House. Solid Hazardous Waste is being disposed through common facility i.e. M/s. Recycling Solutions Pvt. Ltd., Panoli and/or co-processing at Sanghi Industries Ltd., Kutch. Used/Waste Oil is being sold to GPCB authorized recyclers / re-processors namely M/s. Western India Petrochem Industry, Bhavnagar. Downgrade chemicals generated from cleaning of storage tanks / pipelines are being sold to authorized solvent recovery facilities namely M/s. Acquire Chemicals, Ankleshwar however during the compliance period; there was no disposal of downgrade chemicals. Slop Oil received from vessels is treated to separate water and oil particles in Oil Water Separator system. Separated oil from the same is being sold to authorized recycler / reprocessor namely M/s. Western India Petrochem Industry, Bhavnagar and water is sent to ETP for further treatment. However during the compliance period, there was no disposal of Slope Oil. <p>The following table summarizes the waste management practice (for Apr'18 to Sep'18) for different types of wastes at APSEZ:</p> <table> <tr> <th>Waste</th><th>Quantity in MT</th><th>Disposal method</th></tr> <tr> <td colspan="3">Hazardous Waste</td></tr> <tr> <td>Pig Waste</td><td>3.66</td><td>Co-processing at cement industries</td></tr> <tr> <td>Tank Bottom Sludge</td><td>9.38</td><td>Co-processing at cement industries</td></tr> <tr> <td>Oily Cotton waste</td><td>72.22</td><td>Co-processing at Cement Industries</td></tr> <tr> <td>Used / Spent Oil</td><td>83.03</td><td>Sell to registered recycler</td></tr> <tr> <td>Downgrade chemicals</td><td>4.7</td><td>Sell to registered recycler</td></tr> <tr> <td>Discarded Drums & Containers</td><td>11.07</td><td>Sell to registered recycler</td></tr> <tr> <td>Oil contaminated filter</td><td>0.7</td><td>Sell to registered recycler</td></tr> <tr> <td colspan="3">Municipal Solid Waste</td></tr> <tr> <td>Recyclables</td><td>82.42</td><td>After recovery sent for recycling</td></tr> <tr> <td>Refuse Derived Fuel</td><td>108</td><td>Co-processing at Cement</td></tr> </table>	Waste	Quantity in MT	Disposal method	Hazardous Waste			Pig Waste	3.66	Co-processing at cement industries	Tank Bottom Sludge	9.38	Co-processing at cement industries	Oily Cotton waste	72.22	Co-processing at Cement Industries	Used / Spent Oil	83.03	Sell to registered recycler	Downgrade chemicals	4.7	Sell to registered recycler	Discarded Drums & Containers	11.07	Sell to registered recycler	Oil contaminated filter	0.7	Sell to registered recycler	Municipal Solid Waste			Recyclables	82.42	After recovery sent for recycling	Refuse Derived Fuel	108	Co-processing at Cement
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Sr. No.	Conditions	Compliance Status as on 30-09-2018																																																																																									
				Industries																																																																																							
		Wet Waste (food waste+ Organic waste)	490.56	Converted to Manure for Horticulture use																																																																																							
		Please refer Point No. xxiii (General Condition: Construction Phase) for further details.																																																																																									
v.	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operational phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Low sulphur diesel should be used. The location of the DG sets may be decided in consultation with the Gujarat Pollution Control Board.	<p>Complied.</p> <p>DG sets are being used only as power back up source in case of power failure.</p> <p>Please refer Point No. viii & ix (General Condition: Construction Phase) for further details.</p> <p>Heights of stacks are maintained as needed for the combined capacity of all attached DG Sets. Locations of the DG sets are checked by GPCB officials during the site visits. Details of all DG set stack heights are mentioned below.</p> <table><tr><th>Location</th><th>Capacity (KVA)</th><th>Stack height (m)</th></tr><tr><td>Sherkhariya gate</td><td>5</td><td>3</td></tr><tr><td>Sherkhariya gate</td><td>5</td><td>3</td></tr><tr><td>Airstip</td><td>140</td><td>4</td></tr><tr><td>Airstip</td><td>125</td><td>4</td></tr><tr><td>BAROI ROAD</td><td>5</td><td>3</td></tr><tr><td>Airport road entry gate</td><td>5</td><td>3</td></tr><tr><td>Addi salt</td><td>5</td><td>3</td></tr><tr><td>Adani hospital</td><td>500</td><td>3.5</td></tr><tr><td>GMB road</td><td>5</td><td>3</td></tr><tr><td>East gate</td><td>30</td><td>4</td></tr><tr><td>MITAP substation</td><td>62.5</td><td>4</td></tr><tr><td>ROB</td><td>320</td><td>5</td></tr><tr><td>Zharpara fishermen corridor</td><td>5</td><td>3</td></tr><tr><td>Navinal fishermen corridor</td><td>5</td><td>3</td></tr><tr><td>109 culvert</td><td>5</td><td>3</td></tr><tr><td>Anupam Junction</td><td>5</td><td>3</td></tr><tr><td>West gate</td><td>30</td><td>3</td></tr><tr><td>MRSS</td><td>250</td><td>3</td></tr><tr><td>Agripark</td><td>125</td><td>3</td></tr><tr><td>Labour colony</td><td>100</td><td>3</td></tr><tr><td>WTP</td><td>380</td><td>4</td></tr><tr><td>Mundra guest house</td><td>15</td><td>3</td></tr><tr><td>Shantivan colony</td><td>750</td><td>3</td></tr><tr><td>Shantivan colony</td><td>250</td><td>3</td></tr><tr><td>Shantivan colony</td><td>5</td><td>3</td></tr><tr><td>STP plant shantivan</td><td>200</td><td>4</td></tr><tr><td>Adani public school</td><td>82.5</td><td>3</td></tr><tr><td>Wadhala farm house</td><td>30</td><td>3</td></tr></table>			Location	Capacity (KVA)	Stack height (m)	Sherkhariya gate	5	3	Sherkhariya gate	5	3	Airstip	140	4	Airstip	125	4	BAROI ROAD	5	3	Airport road entry gate	5	3	Addi salt	5	3	Adani hospital	500	3.5	GMB road	5	3	East gate	30	4	MITAP substation	62.5	4	ROB	320	5	Zharpara fishermen corridor	5	3	Navinal fishermen corridor	5	3	109 culvert	5	3	Anupam Junction	5	3	West gate	30	3	MRSS	250	3	Agripark	125	3	Labour colony	100	3	WTP	380	4	Mundra guest house	15	3	Shantivan colony	750	3	Shantivan colony	250	3	Shantivan colony	5	3	STP plant shantivan	200	4	Adani public school	82.5	3	Wadhala farm house	30	3
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			Adani house	750	4	
			PUB Building	500	4	
			PMC stores	82.5	3	
			R&D yard	50	3	
			Near DG house (Adani house)	5	2.5	
			Near DG house (Adani house)	5	2.5	
			Near DG house (Adani house)	5	2.5	
vi.	Noise should be controlled to ensure that it does not exceed the prescribed standards, During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	Complied. Noise monitoring is being carried out by NABL accredited and MoEF&CC authorized agency namely M/s. Pollucon Laboratories Pvt. Ltd. Please refer Point No. xi (General Condition: Construction Phase) for further details.				
vii.	Green belt of adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	Being complied. APSEZ has developed "Dept. of Horticulture" which is taking measures/ steps for terrestrial greening as well as mangrove plantation. Development of greenbelt at various locations within the SEZ is an ongoing activity. Please refer condition no. xix (Specific Condition) for further details.				
viii.	Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.	Complied. Boundary walls are constructed in such a way by keeping weep holes for defined river path to facilitate free flow of water and it is ensured that water is not stagnant at any given point during rainy season.				
ix.	Rain water harvesting for roof run-off and surface run-off, as plan submitted should be implemented.	Complied. Groundwater recharge cannot be done at the project site since the entire project is in the intertidal / sub tidal areas. Rain water within project area is managed through storm water drainage. During current year approx. 24 KL of rain water from storm water collected and utilized on land for gardening / plantation purpose. We have also connected roof top rain water duct of				

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Sr. No.	Conditions	Compliance Status as on 30-09-2018
		<p>operational buildings with u/g water tank for utilization of collected rain water for gardening / horticulture purpose.</p> <p>However, APSEZ has carried out rainwater harvesting activities in the nearby villages for benefit of the locals. Following measures are taken for the same during the year 2011 – 13 and the same have benefited to the local farmers.</p> <ol style="list-style-type: none"> 1. Pond deepening activities at villages 2. 18 check dams were constructed under the 'Sardar Patel Sahbhagi Jalsanchay Yojna' <p>Total cost of these efforts was approx. INR 320 lakh.</p> <p>Under Sujlam Suflam project Adani Foundation has successfully completed pond deepening work in Mundra & Abdasa Taluka in record time. 26 pond deepening in Mundra and 7 pond deepening in Abdasa accomplished with all parameters calculated. In Mundra taluka 51723 cum excavation work has been done which increase storage capacity of 51 ML. In Naliya taluka 14550 cum excavation work has been done which increase storage capacity of 15 ML. Total 66 ML storage capacity will be increased.</p> <p><u>Participatory Ground Water Management:</u></p> <p>Adani foundation has started participatory ground water management project. The objective of the project was to reduce the salinity ingress in and around the coastal regions of Mundra, Kutchh and mitigate the ill-effects of this manmade problem to improve the livelihoods of the rural people. The Project will help to get water table high, also it will help in agricultural activities.</p> <p>As a part of pre monsoon activities with ACT (Arid Communities and Technologies – NGO) under this program, we have carried out following work. But, due to negligible rainfall we are not able to find out outcome of this project.</p> <ol style="list-style-type: none"> i. Borana – Artificial bore well recharge (work completed) ii. Mangara – Artificial bore well recharge (work completed) iii. Dhrub – Pond deepening work (work completed) iv. Mota Kapaya – abandoned bore well recharge (work completed) <p>Please refer Annexure – 13 for full details of CSR activities carried out by Adani Foundation in the Mundra region. Budget</p>

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Sr. No.	Conditions	Compliance Status as on 30-09-2018
		<p>for CSR Activity for the FY 2018-19 is to the tune of INR 1666 lakh. Out of which, Approx. INR 651 lakh are spent during the year 2018-19 (Till Sep'18).</p> <p>It may be noted that the individual industrial units will also be encouraged for taking various initiatives for rainwater harvesting within their premises / in the villages around the SEZ area.</p>
x.	The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.	<p>Complied.</p> <p>Ground Water Monitoring is being carried out on regular basis in SEZ areas through NABL accredited and MoEF&CC approved agency namely M/s. Pollucon Laboratories Pvt. Ltd.</p> <p>Please refer Point No. v (General Condition: Construction Phase) for further details.</p> <p>It may be noted that the analysis results of ground water quality are submitted to CGWB, West Central region, Ahmedabad. Copy of the last submission is attached as Annexure - 14.</p>
xi.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	<p>Complied.</p> <p>The entry and exit gates of SEZ and port are provided with ample parking area (210838 m²) near the gate. The entry / exit complex is fully equipped with traffic control equipments and round the clock security is provided for seamless support. No public space is utilized for parking of the vehicle. Please refer Annexure - 15 for photographs and area demarcation.</p>
xii.	A report on the energy conservation measures conforming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & D Factors etc. and submitted to the Ministry along with six monthly monitoring report.	<p>Complied</p> <p>Energy audit of port user buildings (including the details about building materials and technology etc.) is carried out once in three years. Last energy audit was done during Oct-2016. Report of the same is submitted to Chief Electrical officer, Gandhinagar. The said report was submitted to MoEF&CC, RO, Bhopal as part of the compliance report for the period Apr – Sept, 2017. Recommendations of the report are attached as Annexure - 16.</p> <p>Some of the recommendations of these reports have already been implemented as follows.</p> <ul style="list-style-type: none"> • Saving in PAC by overhauling with repairing damage fall

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Sr. No.	Conditions	Compliance Status as on 30-09-2018
		ceiling and window curtain <ul style="list-style-type: none"> • Saving with Improving Power Factor • APFC Panel has already been installed and average PF maintained during last 2 months comes to 0.987 • The system voltage at load end is being maintained 230V and therefore there is no need to install AVC
xiii.	Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be an integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines / rules of the regulatory authority to avoid mercury contamination. Solar panels may be used to the extent possible.	Complied <p>Energy Conservation through Installation of Motion Sensor (Occu switch) & AC Temp. controls in few of the buildings are provided.</p> <p>Measures for energy conservation are incorporated at design stage. Few of the buildings in MSTPL are designed as green building. Some features of the same are as below.</p> <ul style="list-style-type: none"> • Used fly ash based cement and bricks • Special types of glasses were used which gives maximum sunlight and less heat • VOC free paint used certified by CII (Certificate of Indian Industries) • Water flow reducer installed in the entire building <p>CFL / LED lighting are being used at various common areas of SEZ. Used CFL are collected and sent for recycling through authorized e-waste collection agency.</p> <p>APSEZ installed & commissioned 1.5 MW roof top solar plant at residential township and 1.7 MW roof top solar plants at the various locations of SEZ area. Photographs of the same were submitted along with last compliance report for the period Oct'17 to Mar'18.</p> <p>It may be noted that the individual industrial units will also be encouraged for taking various initiatives with respect to energy conservation (such as energy audit, installation of renewable energy sources, utilization of energy efficient fixtures etc.).</p>
xiv.	Adequate measures should be taken to prevent odour problems from solid waste processing plant and STP.	Complied <p>5R principals are adopted for sustainable waste management at APSEZ. Utmost care is being taken during the waste management and sewage /effluent treatment to ensure that there is no odour generation. Proper secondary treatment and disinfection is provided to the domestic sewage and treated sewage and then it is utilized for horticulture purpose. These</p>

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		measures ensure that odor problem is not created in the surrounding area. Furthermore, greenbelt on the periphery of the treatment plant as well as waste management sites help to prevent odour problems.
xv.	The buildings should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	<p>Complied.</p> <p>Presently, all the buildings have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation. The same practice will be continued in future also.</p> <p>It may be noted that the individual industrial units will also be encouraged for consideration of these design parameters.</p>
xvi.	The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.	<p>Complied.</p> <p>Compliance report of all the environmental safeguards contained in the EIA report is attached as Annexure – 5.</p>
xvii.	Adequate drinking water facility be provided.	<p>Complied.</p> <p>Drinking water facility at approx. 200 locations within APSEZ area is provided.</p>
xviii.	Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project.	<p>Complied.</p> <p>Environment Monitoring (air, noise, water, soil) is being carried out on regular basis in Port & SEZ areas through NABL accredited and MoEF&CC approved agency namely M/s. Pollucon Laboratories Pvt. Ltd.</p> <p>Please refer following condition nos. for further details.</p> <ul style="list-style-type: none"> v, viii & xi of General Conditions – Construction Phase iii of General Conditions – Operation Phase
xix.	Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for portion of the apartments should be provided.	<p>Complied.</p> <p>APSEZ installed & commissioned 1.5 MW roof top solar plant at residential township and 1.7 MW roof top solar plants at the various locations of SEZ area.</p> <p>Please refer condition no. xiii of the General Conditions – Operation Phase for further details.</p>

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Sr. No.	Conditions	Compliance Status as on 30-09-2018
xx.	Ozone depleting substance (Regulation & Control) Rules should be followed while designing the air conditioning system of the project.	<p>Complied.</p> <p>APSEZ is not procuring air conditioning systems which use ozone depleting gases. All the HVAC systems are with Ozone friendly gases within APSEZ. All new air conditioning systems installed, if any, will be designed in line with Ozone depleting substance (Regulation & Control) Rules.</p> <p>It may be noted that the individual industrial units will also be encouraged to follow Ozone depleting substance (Regulation & Control) Rules while designing the air conditioning system of the project. The same will be implemented by individual unit as per project suitability.</p>
12	Officials from the Regional Office of MOEF, Bhopal who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF should be forwarded to the CCF, Regional Office of MOEF, Bhopal.	<p>Complied.</p> <p>Full support is always extended to officers of regulatory authorities (including MoEF&CC and GPCB) visiting the project site. The documents as per their requirements are provided to them.</p> <p>The communication documents like application Form – 1, ToR received from MoEF&CC, Final EIA report, Public Hearing proceedings and recommendations of GCZMA are submitted to MoEF&CC, RO, Bhopal for necessary records.</p>
13	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Point noted and agreed.
14	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the	Point noted and agreed.

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	provision of the Environmental (Protection) Act, 1986, to ensure effective implementation of the safeguard measures in a time bound and satisfactory manner.	
15	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective competent authorities.	Not Applicable at present. The mentioned approvals are not applicable to APSEZ since we are the infrastructure support provider. However, the applicable approvals will be availed by the individual member industries prior to construction of work. The environment management committee will ensure strict adherence to the condition by the individual industries.
16	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	Point noted and agreed.
17	The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project	Complied APSEZ has advertised Environmental and CRZ Clearance in two local newspapers "The Indian Express" (in English language) and "Kutch Mitra" (in vernacular language) on 24.07.14 (within 10 days from the date of receipt of the clearance letter) and copy of the same was submitted vide letter dated 05.08.2014 to Ministry of Environment, Forests &

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
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	has been accorded Clearance and copies of clearance letters are available with the Gujarat Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal.	Climate Change, Bhopal.
18	Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.	Point noted and agreed.
19	Any appeal against this 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.	Point noted and agreed.
20	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any,	Complied Copy of clearance letter was sent to concerned Panchayats, Zilla Parishad, Urban Local Body, Local NGOs and from whom suggestion/representation received. Details regarding the same were submitted to the MoEF & CC along with half yearly compliance report for the period from Apr – 2014 to Sep – 2014.

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Sr. No.	Conditions	Compliance Status as on 30-09-2018																					
	were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Clearance letter is also put up on the website of the Adani ports https://www.adaniports.com/ports-downloads																					
21	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied. Compliance report of EC conditions is uploaded regularly. Last compliance report including results of monitoring data for the period of Oct'17 to Mar'18 was submitted to Regional Office of MoEF&CC @ Bhopal, Zonal Office of CPCB @ Baroda, GPCB @ Gandhinagar & Gandhidham and Dept. of Forests & Env., Gandhinagar vide our letter dated 01.05.2018. Copy of the same is also available on our web site https://www.adaniports.com/ports-downloads . A soft copy of the same was also submitted through e-mail on 12.06.2018 to all the authorities. Please refer below for the details regarding past six compliance submissions.																					
22	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	<table border="1"> <thead> <tr> <th>Sr. no.</th><th>Compliance period</th><th>Date of submission</th></tr> </thead> <tbody> <tr> <td>1</td><td>Apr'15 to Sep'15</td><td>30.11.2015</td></tr> <tr> <td>2</td><td>Oct'15 to Mar'16</td><td>30.05.2016</td></tr> <tr> <td>3</td><td>Apr'16 to Sep'16</td><td>01.12.2016</td></tr> <tr> <td>4</td><td>Oct'16 to Mar'17</td><td>30.05.2017</td></tr> <tr> <td>5</td><td>Apr'17 to Sep'17</td><td>01.12.2017</td></tr> <tr> <td>6</td><td>Oct'17 to Mar'18</td><td>01.05.2018</td></tr> </tbody> </table>	Sr. no.	Compliance period	Date of submission	1	Apr'15 to Sep'15	30.11.2015	2	Oct'15 to Mar'16	30.05.2016	3	Apr'16 to Sep'16	01.12.2016	4	Oct'16 to Mar'17	30.05.2017	5	Apr'17 to Sep'17	01.12.2017	6	Oct'17 to Mar'18	01.05.2018
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1	Apr'15 to Sep'15	30.11.2015																					
2	Oct'15 to Mar'16	30.05.2016																					
3	Apr'16 to Sep'16	01.12.2016																					
4	Oct'16 to Mar'17	30.05.2017																					
5	Apr'17 to Sep'17	01.12.2017																					
6	Oct'17 to Mar'18	01.05.2018																					
23	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986,	Complied. Environmental statement for each financial year is submitted to GPCB. The same for the FY ending 31.03.2018 in Form-V is submitted to GPCB vide our letter dated 10 th May, 2018. Acknowledge copy of the same is attached as Annexure – 17 . Copy of the same is also available on our web site https://www.adaniports.com/ports-downloads . A soft copy of the same was also submitted through e-mail to all the authorities vide e-mail dated 06.06.2018.																					

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Sr. No.	Conditions	Compliance Status as on 30-09-2018
	as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
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ANNEXURE A

Compliance Report of CRZ Recommendation

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Note:

With respect to the project components attracting CRZ recommendation from GCZAM, following points shall be noted:

- GCZMA has recommended the CRZ proposal for Sea Water Intake, Outfall system and Pipeline.
- Construction with respect to Desalination Plant, sea water intake and outfall system has not been started yet.
- Existing units are having requisite environmental permissions (from state or central body, as the case may be) for discharging their wastewater, if any, to the Common Effluent Treatment Plant of MPSEZ Utilities Pvt. Ltd. having 2.5 MLD capacity (having a separate individual environmental clearance).
- Treated waste water is being utilized within the premises of CETP and / or SEZ for the gardening / horticulture activities.
- As soon as the need for discharging the effluent / reject form the desalination plant into sea will arise, constriction work for the intake and outfall will be started.

In view of the above mentioned facts, the compliance to the conditions stipulated in the CRZ recommendation will be submitted to all the competent authorities when the construction and operation activities are initiated for the project components attracting CRZ recommendation.

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Annexure – B

Compliance Status of MoEF & CC Order dated 18.09.2015

Based on the report submitted by Sunita Narain committee, MoEF&CC issued a Show Cause Notice (SCN) to APSEZ vide their letter dated 30.09.2013. APSEZ replied to the SCN vide letter dated 14.10.2013. Further, an order (containing 10 directions) was issued by MoEF&CC vide their letter dated 18.09.2015. Compliance to these 10 directions is mentioned below.

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Sr. No.	Condition	Compliance Status
i	The proposal of extension of the validity of environmental clearance granted to the North Port vide letter dated 12.01.2009 will be considered separately at later stage.	Point Noted and agreed. After receipt of this order, so far APSEZ has not done any application to MoEF&CC for the proposed North port.
ii	Bocha island, ecologically sensitive geomorphological features and areas in the island and creeks around the island will be declared as conservation zone action plan for its conservation must be prepared. M/s. APSEZ should provide necessary financial assistance for this purpose.	Complied This reply covers condition no ii, iv and v. Based on the MoEF&CC directions and finalization of ToR with GCZMA, APSEZ has entrusted NCSCM to carry out the detailed study. Scope of the study include the following:
iv	A comprehensive and integrated study and protection of creeks/ mangrove area including buffer zone, mapping of co-ordinates, running length, HTL, CRZ boundary, will be put in place. The plan will take note of all the conditions of approvals granted to all the project proponents in this area e.g. the reported case of disappearance of mangroves near navinal creek. The preservation of entire area to maintain the fragile ecological condition will be a part of the plan in relation to the creeks, mangrove conservation and conservation of bocha island up to baradimata and others.	<ul style="list-style-type: none"> • Detail bathymetry and topography survey of creeks • Demarcation of mangrove areas and buffer zone • Demarcation of HTL and CRZ areas with co-ordinates • Preparation of a comprehensive and integrated conservation plan for protection of creeks and mangroves <p>Cost of the study as per the NCSCM proposal is 315.5 Lakh. 90% of the payment against the proposal value is already paid to NCSCM.</p> <p>In order to complete the study, NCSCM has carried out number of site surveys which are mentioned below:</p>
v	NCSCM will prepare the plan in consultation with NIOT, PP and GCZMA. In recognition of the fact that the existing legal provisions under the E(P) Act 1986 do not provide for any authority to impose ERF by the government, the plan will be financed by the PP. the implementation will be carried out by GCZMA. The monitoring of the implementation will be carried by NCSCM.	<ul style="list-style-type: none"> • Bathymetry survey of creeks • Topography survey of intertidal areas • Mangrove survey (health and area demarcation) • Sampling of soil and water for analysis of physico-chemical and biological parameters • Tide and currents data collection (including residence time of tidal water) • Focus Group Discussions with the community in the close vicinity of the project area

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Sr. No.	Condition	Compliance Status
		<p>In addition to the site surveys, NCSCM has procured satellite images for analysis of mangrove cover.</p> <p>The data collected (through site surveys and analysis of satellite maps) was used as input for mathematical modelling. The modelling studies were carried out to understand the impacts of the development activities. Based on the outcome of the modelling studies the necessary conservation plan for protection of creeks and mangrove areas is prepared.</p> <p>Based on the final study report, outcome is summarized in to following points :</p> <ul style="list-style-type: none"> • There is no obstruction to any water stream (creeks / branches of creeks / rivers) • Presently, mangrove cover in and around APSEZ is over 2340 ha. There is substantial growth in mangrove cover to the tune of 246 ha (comparison between 2011 and 2016-17) • Mundra has undergone substantial development during this tenure. Hence it can be interpreted that the infrastructure development has not left any adverse impacts on ecology. <p>Now as directed, the study report is submitted to GCZMA (with a copy to MoEF&CC vide letter dated 04.06.2018) for their consideration and recommendation if any. The approved action plan will be implemented by APSEZ under supervision of NCSCM. Compliance status of the implementation plan will be submitted to GCZMA on regular basis.</p> <p>For demarcation of HTL and CRZ areas, NCSCM has prepared the draft CZMP maps (based on the MoEF&CC directions). The draft maps will be finalized by GCZMA and submitted to MoEF&CC for final acceptance. Once the maps are finalized, NCSCM will issue the final maps for the project area of APSEZ. The said maps will then be submitted to GCZMA and</p>

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Sr. No.	Condition	Compliance Status
		MoEF&CC by APSEZ.
iii	The violations of specific condition of all the ECs and CRZ clearances, if any, will be examined and proceeded with the provisions of EP Act, 1986 independently.	<p>Complied</p> <p>Regional Officer, MoEF&CC, Bhopal visited APSEZ on 21-22 December'16 for monitoring the implementation of environmental safeguards. Last visit of APSEZ was done by Dr. HVC Chery Guntupally – Scientist, MoEF&CC Bhopal on 3rd May, 2018 for compliance verification. APSEZ provided all requisite information and documents required by the Regional Officer. During the said compliance verification visit, there was no major non-compliance observed.</p> <p>It may also be noted that GPCB, Regional Office does regular site visit for various components. During the compliance period, one such site visit was carried out on 03.07.2018. During this visit as well, no major non-compliance was observed.</p>
vi	There will be no development in the area restricted by the High court of Gujarat. APSEZ shall abide by the outcome of the PIL 12 of 2011 and other relevant cases.	<p>Complied</p> <p>Subject PIL has been disposed off by Hon'ble High Court vide their order dated 17.04.2015 and now there is no restriction on development in the subject area. The order reads as <i>"In view of the aforesaid discussion, we do not find any merit in this writ petition. This writ petition fails and is accordingly dismissed. No order as to cost."</i> Copy of the order is attached as Annexure – 18.</p> <p>Considering the above status and in line to submission of compliance of all the directions under this order, this condition is closed.</p>
vii	APSEZ will submit specific action plan to protect the livelihood of fishermen along with budget.	<p>Complied.</p> <p>Adani Foundation (AF) is the CSR arm of the Adani Group actively working for upliftment of the communities in the surroundings of various project sites of Adani Group. AF has prepared a specific action plan to protect livelihood of fishermen at Mundra.</p>

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Sr. No.	Condition	Compliance Status
		<p>Various initiatives taken by Adani Foundation for protection of livelihood of the fisher folk community was submitted during compliance report submission for the period Oct'16 to Mar'17.</p> <p>APSEZ is carrying out various initiatives specific to the Fisherfolk community which includes:</p> <ul style="list-style-type: none"> • Vidya Deep Yojana • Vidya Sahay Yojana – Scholarship Support • Adani Vidya Mandir • Fisherman Approach in SEZ • Machhimar Arogya Yojana • Machhimar Kaushalya Vardhan Yojana • Machhimar Sadhan Sahay Yojana • Machhimar Awas Yojana • Machhimar Shudhh Jal Yojana • Sughad Yojana • Machhimar Akshay kiran Yojana • Machhimar Suraksha Yojana • Machhimar Ajivika Uparjan Yojana • Bandar Svachhata Yojana <p>These initiatives are discussed in detail in the report namely "Silent Transformation of Fisher folk at Mundra". Said report also includes the information related to the planned expenses to the tune of approx. 13.5 Cr. INR for various initiatives for the next five years (2016 – 2021). Copy of the same is already submitted to MoEF&CC vide our letter dated 10.09.2016. Further, details regarding the expenditure incurred against the commitment are attached as Annexure – 19.</p> <p>Further, APSEZ is actively working with local community (including fishermen community) around the project area and provides required support for their livelihood and other concerns through the CSR arm – Adani Foundation. Brief information about activities in the main five persuasions are mentioned below. Please refer Annexure – 13 for full details of CSR activities carried out by Adani Foundation in the Mundra region.</p>

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Sr. No.	Condition	Compliance Status	
		Area Community Health	Activity <ul style="list-style-type: none"> The Adani Foundation runs two mobile health care units. Main objective of Mobile Van is to reduce travel time, hardships and expenses. Two mobile health care units cover 34 villages and 05 fishermen settlements. Around 113 types of general and lifesaving medicines are available in these units. Total patient was treated under this scheme during the year 2018-19 (Till Sep'18): 8972 Nos. During the year 2018-19 (Till Sep'18), total 5137 transactions were done by 8518 card holders of 66 villages of Mundra Taluka and they received cash less medical services under this project. Total 10485 OPDs were given medical treatment in various villages through rural dispensaries. During this year, anthropometry study done for 2020 children. Total 6 children became free of malnutrition due to efforts under "Suposhan" Project. Additionally, 6288 FGD were conducted during this year. Total 8770 haemoglobin screenings of RPA woman and adolescent girls was carried out, which helps in controlling anaemia in women and indirectly malnutrition. During the year 2018-19, 11 Specialty camps were organized and 1636 Patients were benefitted.
		Sustainable Livelihood – Fisher folk	<ul style="list-style-type: none"> Average 118 KL of water was supplied to 983 households from different settlements on a daily basis under Machhimar Shudhh Jal Yojana. Adani Foundation constructed four Balwadis for kids between the age group of 2.5 years to 5 years at different settlements under Vidya Deep Yojana. Participatory scholarship support for fisherman children studying in SMJ high school Luni and to above 12th standards Students. 80 percentage support given by Adani foundation and 20 percentage support by parents! RTG Crane Operator: 03 Fisherman Youth Dori Work Training: 39 Women Mangrove Plantation, moss cleaning, etc.: 5201 Man-days.

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Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Condition	Compliance Status
		<ul style="list-style-type: none"> In addition to this, employment worth of 34727 man-days has been provided till date. The Foundation has also supported Pagadiya fishermen as painting labours by providing them with employment and job in various fields. AF has initiated Programme for Awareness of Farmers in collaboration with KVK. The outreach is approximate 67 farmers of 5 villages. This year we have given 1,08,000 man fodder worth Rs. 205 Lacs approximately under fodder cultivation program. Project Swavlamban Launched with blessings of differently abled people of MUNDRA TALUKA and total 533 beneficiaries benefited with financial benefit of 15.0 Lacs under this scheme.
	Education	<ul style="list-style-type: none"> Total 174 Schools and 12350 students have visited Adani Port, Adani Power & Adani Willmar facilities to get an insight upon the large scale business activity carried out at each of them as a part of project UDAAN. Navneet English books distribution and Plastic free Environment awareness event organized in all 17 schools of Utthan by Adani foundation. 111 Govt. primary schools in total 62 villages of Mundra Taluka, 3 villages of in Anjar taluka and two villages of Mandvi Taluka every year on an average 2550 to 2700 children gets enrolled in 1st std in Taluka For 2018-2019 total 2300 children got enrolled & Adani foundation provided the "Enrollment kit" to all new enrollee in Taluka.
	Rural Infrastructure	<ul style="list-style-type: none"> Under Dignity of Drivers Project, Adani Foundation has constructed Resting Shed for Drivers entering in SEZ Premises. Total 50 beds are constructed, drinking water and sanitation plus recreational – TV Facilities. A large number of water harvesting structure (18 Nos. of check dams in coordination with salinity department) and ground recharge activities (pond deepening work for more than 15 ponds) were built leading to a significant increase in water

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Condition	Compliance Status	
			<p>table and higher returns to the farmers.</p> <ul style="list-style-type: none"> As a part of pre monsoon activities with ACT (Arid Communities and Technologies – NGO) under this program, we have carried out following work. But, due to negligible rainfall we are not able to find out outcome of this project. i. Borana – Artificial bore well recharge (work completed) ii. Mangara – Artificial bore well recharge (work completed) iii. Dhrub – Pond deepening work (work completed) iv. Mota Kapaya – abandoned bore well recharge (work completed) <p>Other works completed</p> <ul style="list-style-type: none"> Civil and electrical works in HMV driver rest shed River and pond cleaning by JCB Nanikhakhar, Zarpara and Baroi 26 pond deepening work under SSJA in 19 villages of mundra taluka <p>Work in Progress</p> <ul style="list-style-type: none"> Drainage maintenance and other misc works Basic infra. Facility in Labour Colony Drainage chamber and covers, wandh village Development in common place, Navinal Civil works in gadhvi samaj community hall, Navinal Civil works in secondary school, Navinal Repair of west weir work at zarpara Construction of fisherman house, shekhadiya
		Skill Development	<ul style="list-style-type: none"> Soft skill training – 284 Nos. Technical Training – 478 Nos.
		<p>Budget for CSR Activity for the FY 2018-19 is to the tune of INR 1666 lakh. Out of which, Approx. INR 651 lakh are spent during the year (Till Sep'18).</p>	
viii	APSEZ will voluntarily return the grazing land, if any, in their possession.	<p>Point noted.</p> <p>All lands are acquired through proper procedure prescribed by State Government. However APSEZ has voluntarily given 400 acres of land back to Zarpara village for the</p>	

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Condition	Compliance Status
		purpose of Gauchar.
ix	A regional strategic impact assessment report with a special focus on Mundra region will also be prepared. The cost towards these studies will also be borne by PP.	<p>Complied</p> <p>This reply covers direction no ix and x.</p> <p>Based on the ToR finalized by GCZMA (as per the instructions of MoEF&CC) for carrying out regional impact assessment study, APSEZ awarded the work to NABET accredited consultant M/s. Cholamandalam MS Risk Services Ltd. to carry out the studies as stated in these directions. Total cost of the study is approx. INR 1.3 cr. which is financed by APSEZ.</p> <p>The stated study was carried out in following 3 phases</p> <ul style="list-style-type: none"> • Baseline data collection and review of the past EIA reports and clearances issued to APSEZ • Mathematical modelling and other technical studies for identification of potential impacts (for the year 2030) of the approved and existing project activities • Development of macro level EMP for the phase wise implementation of actionable points <p>As part of the study, following modelling exercises / technical studies have been carried out to study the impacts on all environmental attributes:</p> <ul style="list-style-type: none"> • Ambient air quality • Marine (Hydrodynamic, Thermal & Salinity dispersion, Sediment transport) • Noise level • Traffic assessment • Oil spill contingency plan • Water resource and salinity ingress • Land Use / Land Cover • Socioeconomic, Regional infrastructure • Waste management • Ecology, Bio diversity and Fisheries • Shoreline change assessment

	Adani Ports and Special Economic Zone Limited, Mundra.	From : Apr'18 To : Sep'18
Status of the conditions stipulated in Environment and CRZ Clearance		

Sr. No.	Condition	Compliance Status
		<p>Preparation of these reports require extensive use of modelling software and study of the available information / research reports to assess the impacts on individual attribute of environment. Based on the modelling outcomes and findings of the technical studies, a macro level environment management plan is prepared.</p> <p>The study is recently concluded and the final report is submitted to GCZMA and MoEF&CC for their consideration vide our letter dated 30.04.2018. Acknowledge copy of the same is attached as Annexure - 20. The recommendations mentioned in the EMP which are applicable to APSEZ will be implemented in phase wise manner as per the progress of development.</p>

Annexure – 1

ITEM NO.307

COURT NO.7

SECTION IX

S U P R E M E C O U R T O F I N D I A
RECORD OF PROCEEDINGS

Petition(s) for Special Leave to Appeal (C) No(s). 1526/2014

(Arising out of impugned final judgment and order dated
13/01/2014 in WP No. 21/2013 passed by the High Court Of Gujarat
At Ahmedabad)

SKAPS INDUSTRIES INDIA PVT LTD

Petitioner(s)

VERSUS

GAJUBA (GAJENDRASINH) BHIMJI JADEJA&ORS

Respondent(s)

(WITH PRAYER FOR INTERIM RELIEF AND OFFICE REPORT)

WITH

SLP(C) No. 1490/2014

(With prayer for exemption from filing c/c of the impugned
judgment and Prayer for Interim Relief and Office Report)

SLP(C) No. 1519/2014

(With prayer for exemption from filing c/c of the impugned
judgment and Prayer for Interim Relief and Office Report)

SLP(C) No. 1554/2014

(With prayer for exemption from filing c/c of the impugned
judgment and Prayer for Interim Relief and Office Report)

SLP(C) No. 1606/2014

(With prayer for Interim Relief and Office Report)

SLP(C) No. 1607/2014

(With prayer for interim directions and Prayer for Interim
Relief and Office Report)

SLP(C) No. 1799/2014

(With prayer for Interim Relief and Office Report)

SLP(C) No. 2198/2014

(With prayer for Interim Relief and Office Report)

SLP(C) No. 2204/2014

(With prayer for Interim Relief and Office Report)

SLP(C) No. 3327/2014

(With prayer for permission to file slp and Office Report)

SLP(C) No. 5851-5852/2014

(With prayer for Interim Relief and Office Report)

SLP(C) No. 7369/2014

(With prayer for Office Report)

Date : 14/07/2014 These petitions were called on for hearing

Signature Not Verified

Digitally signed by

today.

Parveen Kumar Chawla

Date: 2014.07.16

15:23:44 IST

CORAM :

Reason:

HON'BLE MR. JUSTICE JAGDISH SINGH KHEHAR

HON'BLE MR. JUSTICE J. CHELAMESWAR

HON'BLE MR. JUSTICE A.K. SIKRI

2

For Petitioner(s) Mr. K.K. Venugopal, Sr. Adv.
Mr. Sandeep Singh, Adv.
Ms. Radhika Gautam, Adv.

Mr. Mahesh Agarwal, Adv.
Mr. Shashank Manish, Adv.
Mr. Shamik Bhat, Adv.
for Mr. E. C. Agrawala, AOR

Mr. Harin P. Raval, Sr. Adv.
Mr. Praveen Kumar, AOR

Mr. M.L. Lahoty, Adv.
Ms. Gargi B. Bharoli, Adv.
For Mr. Himanshu Shekhar, AOR

Mr. Ajay Bhargava, Adv.
Ms. Vanita Bhargava, Adv.
Mr. Nitin Mishra, Adv.
For M/s Khaintan & Co., AOR

Mr. Ashok mathur, adv.
Mr. R. Sudhinder, Adv.
Mr. S.N. Mitra, Adv.

Mr. Abhinav Mukerji, AOR

Mr. Milind Kumar, AOR

For Respondent(s) Mr. J.S. Attri, Sr. Adv.
Mr. K. Radhakrishnan, Sr. Adv.
Ms. Kiran Bhardwaj, Adv.
Mrs. S.K. Bajwa, Adv.
Ms. Seema Rao, Adv.
For Mr. S.N. Terdal, AOR
for Mr. B.K. Prasad, AOR

Ms. Kamini Jaiswal, Adv.

Ms. Preeti Bhardwaj, Adv.
For Ms. Hemantika Wahi, AOR

Mr. Harin P. Raval, Sr. Adv.
Mr. Praveen Kumar, AOR

Mr. Anil Kumar Mishra-I, AOR

UPON hearing the counsel the Court made the following
O R D E R

The instant matter is taken up for consideration, in

3

the light of the motion Bench order dated 2.5. 2014.

By the

above order, the time granted to the Ministry of Environment and

Forests, to complete the process of environmental clearance, was

extended by a further period of eight weeks.

The period of

eight weeks expired about a fortnight ago.

We are informed that the Ministry of Environment and
Forests, has not yet completed the process of granting
environmental clearance, and no final decision has been taken by
the department. It is therefore, that the learned counsel for
the rival parties, seek a further extension, so as to enable the

Ministry of Environment and Forests, to complete the process of environmental clearance.

Keeping in mind the prayer made by the learned counsel for the rival parties, we consider it just and appropriate to grant one further and final opportunity to the Ministry of Environment and Forests to complete the process of environmental clearance. The same shall positively be completed within a further period of eight weeks. We also consider it just and appropriate to require the Secretary, Ministry of Environment and Forests to oversee the process of grant of environmental clearance. He would be duly assisted in the aforesaid objective by the Director, Department of Environment, Ministry of Environment and Forests, New Delhi. They shall be personally responsible, in case the entire process is not completed and finalised within a period of eight weeks from today. Registry is directed to send a copy of this order to the Secretary,

4

Ministry of Environment and Forests, New Delhi and Director, Department of Environment, Ministry of Environment and Forests, New Delhi.

List for further consideration after eight weeks.

In the meanwhile, communication dated 3.4.2014 of the Government of India, Ministry of Environment and Forests (in Annexure P1 annexed to I.A. Nos.1-2 of 2014) shall remain stayed.

(Parveen Kr. Chawla)
Court Master

(Phoolan Wati Arora)
Assistant Registrar

Annexure – 2

04.06.2018

To,
Director (Environment) & Member Secretary,
Gujarat Coastal Zone Management Authority,
Sachivalaya,
Gandhi Nagar

Subject: Submission of final report on comprehensive and integrated plan for preservation and conservation of mangroves and associated creeks in and around APSEZ, Mundra, Gujarat.

Reference:

- (1) EC and CRZ clearance of Multi-product SEZ at Mundra vide MoEF&CC letter F. No. 10-138/2008-IA-III dated 15.07.2014
- (2) MoEF&CC order vide F. No. 10-47/2008-IA-III dated 18.09.2015
- (3) Submission of NCSCM's proposal and scope of work vide our letter dated 25.04.2016

Dear Sir,

In view of compliance with the directions issued by MoEF&CC, the scope of work of NCSCM was discussed during 28th meeting of GCZMA held on 22.04.2016. The discussed scope of work was submitted to GCZMA vide our letter dated 25.04.2016.

In view of the above, NCSCM commenced the studies covering the following directions mentioned in references above.

- *Bocha island, ecologically sensitive geomorphological features and areas in the island and creeks around the island will be declared as conservation zone action plan for its conservation must be prepared. M/s. APSEZ should provide necessary financial assistance for this purpose.*
- *A Comprehensive and integrated conservation plan including detailed bathymetry study and protection of creeks/mangrove area including buffer zone, mapping of co-ordinates, running length, HTL, CRZ boundary will be put in place. The plan will take note of all the conditions of approvals granted to all the project proponents in this area, e.g., the reported case of disappearance of mangroves near Navinal creek. The preservation of entire area to maintain the fragile ecological condition will be a part of the plan in relation to the creeks, mangrove conservation and conservation of Bocha Island up to Baradimata and others.*

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Ahmedabad 380 009
Gujarat, India
CIN: L63090GJ1998PLC034182

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Fax +91 79 2555 5500
info@adani.com
www.adani.com

21/6/18
અવરણ વૈકલ્પિક અધિકારી
રજીસ્ટ્રી શાખા
સહ અને પર્યાવરણ વિભાગ
અધિપતિ, ગાંધીનગર

- NCSCM will prepare the plan in consultation with NIOT, PP and GCZMA. In recognition of the fact that the existing legal provisions under the E(P) Act 1986 do not provide for any authority to impose ERF by the Government, the plan will be financed by the PP. The implementation will be carried out by GCZMA. The monitoring of the implementation will be carried by NCSCM.

During the course of the study, APSEZ has submitted two reports regarding progress of the study to all concerned authorities as part of the six monthly compliance reports. MoEF&CC vide their letter dated 23.08.2016 requested to submit an updated status of the directions (reference - 2). In reply, APSEZ submitted the requisite information with the progress report of the ongoing studies vide letter dated 10.09.2016. In continuation to the same, following site visits were carried out for verification of compliance status. During the said visits, the progress reports submitted were discussed with the concerned authorities present.

- A joint site visit (MoEF&CC, RO, Bhopal, GCZMA and GPCB, RO, Gandhidham) was carried out during 21 - 22.12.2016.
- Site visit of Regional Officer, MoEF&CC, Bhopal was carried out during 02 - 03.05.2018.

In continuation to our earlier submissions, we would like to inform you that the stated study is now completed (including preparation of the conservation plan) and the report prepared by NCSCM is enclosed for your consideration.

It may be noted that demarcation of HTL and CRZ areas of the entire coast of Gujarat (including the APSEZ area) is being carried out by NCSCM. NCSCM has already prepared the draft maps. Once the maps are finalized, they will be submitted to GCZMA and MoEF&CC as part of the requirements.

Thank you
Yours sincerely,



Shalin Shah
Head - Environment

✓ Copy to: Director (Infra II committee), MoEF&CC (IA/III section), Indira Paryavaran Bhavan, Jor bagh road, Aliganj, NewDelhi

06/11/18
Section
जलवायु परिवर्तन प्रभाग
Environment, Forests & Climate Change
Govt. of India
भवन/Indira Paryavaran Bhavan
जलवायु परिवर्तन/ Jorbagh Road, Aliganj
नई दिल्ली/New Delhi-110003

Annexure – 3



Dr. N.S. Raman
Deputy Director & Head
Environmental Audit

राष्ट्रीय
पर्यावरण
अभियांत्रिकी
अनुसंधान
संस्थान
नेहरू मार्ग
नागपुर 440020
भारत

National
Environmental
Engineering
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EAC/Aug/2018/002
30 August, 2018

Head-Environment,
M/s. Adani Ports and Special Economic Zone Limited,
Adani House, P.O. Box No. 1,
Mundra, Kutch – 370421.

Sub: Status of SEZ Environment Clearance Compliances

Ref:

- 1. SEZ Environment Clearance bearing MoEF letter No.10-138/2008-I A.III, dated 15th July, 2014 (Specific condition No.vii)**
- 2. SO No.4800027105, dated: 02.08.2017**

With reference to above stated subject and references, work has been awarded to us for studies through environment clearance compliance audit at Multi Product SEZ of M/s. Adani Ports & SEZ Limited, Mundra with reference to EC Condition No. (vii).

Accordingly, the study undertaken during the period April-2018 to September-2018 concluded that all the conditions stipulated in environment clearance has been complied and there is no violation of any condition.

The compliance report (October 2017 - March, 2018) was reviewed by us and found adequate. It was further assessed from the monitoring reports submitted to us as part of the compliance report that all the environmental norms meet the applicable standards. The existing practices shall be continued in future as well to ensure meeting with the applicable norms.

Regards,

Yours faithfully

(Dr. N.S. Raman)

Annexure – 4

Details of Greenbelt development at APSEZ, Mundra

	Total Green Zone Detail Till Up to Sep - 2018				
	Area (In Ha.)	Trees (Nos.)	Palm (Nos.)	Shrubs (SQM)	Lawn (SQM)
SV COLONY	69.43	32480.00	7298.00	68327.00	95019.00
PORT & NON SEZ	78.98	137642.00	18395.00	76666.78	58905.18
SEZ	114.70	227835.00	17302.00	220449.60	27462.03
MITAP	3.47	8622.00	66.00	3340.00	8072.00
WEST PORT	86.04	186827.00	51342.00	24112.00	22854.15
AGRI PARK	8.94	17244.00	1332.00	5400.00	2121.44
SOUTH PORT	14.25	25530.00	3470.00	3882.00	3327.26
Samudra Township	53.39	44872.00	11818.00	19978.07	35071.67
Productive Farming (Vadala Farm)	23.79	27976.00	0.00	0.00	0.00
TOTAL (APSEZL)	452.98	709028	111023	422155.45	252832.73
		<i>820051</i>			


Details of Mangrove Afforestation done by APSEZ

Sl. no.	Location	Area (ha)	Duration	Species	Implementation agency
1	Mundra Port	24.0	-	Avicennia marina	Dr. Maity, Mangrove consultant of India
2	Mundra Port	25.0	-	Avicennia marina	Dr. Maity, Mangrove consultant of India
3	Luni/Hamirmora (Mundra, Kutch)	160.8	2007 - 2015	Avicennia marina, Rhizophora mucronata, Ceriops tagal	GUIDE, Bhuj
4	Kukadsar (Mundra, Kutch)	66.5	2012 - 2014	Avicennia marina	GUIDE, Bhuj
5	Forest Area (Mundra)	298.0	2011 - 2013	Avicennia marina	-
6	Jangi Village (Bhachau, Kutch)	50.0	2012 - 2014	Avicennia marina	GUIDE, Bhuj
7	Jakhau Village (Abdasa, Kutch)	310.6	2007-08 & 2011-13	Avicennia marina, Rhizophora mucronata, Ceriops tagal	GUIDE, Bhuj
8	Sat Saida Bet (Kutch)	255.0	2014-15 & 2016-17	Avicennia marina & Bio diversity	GUIDE, Bhuj
9	Dandi Village (Navsari)	800.0	2006 - 2011	Avicennia marina, Rhizophora mucronata, Ceriops tagal	SAVE, Ahmedabad
10	Talaza Village (Bhavnagar)	50.0	2011-12	Avicennia marina	SAVE, Ahmedabad
11	Narmada Village (Bhavnagar)	250.0	2014 - 2015	Avicennia marina	SAVE, Ahmedabad
12	Malpur Village (Bharuch)	200.0	2012-14	Avicennia marina	SAVE, Ahmedabad
13	Kantiyajal Village (Bharuch)	50.0	2014-15	Avicennia marina	SAVE, Ahmedabad
14	Devla Village (Bharuch)	150.0	210-16	Avicennia marina	SAVE, Ahmedabad
15	Village Tala Talav (Khambhat, Anand)	100.0	2015 - 2016	Avicennia marina	SAVE, Ahmedabad
16	Village Tala Talav (Khambhat, Anand)	38.0	2015 - 2016	Avicennia marina	GEC, Gandhinagar
Total Mangrove Plantation:		2827.90 Ha			

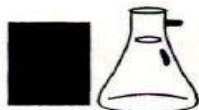
Annexure – 5

Compliance Report of EMP & Mitigation Measures

Sr. No.	Suggested Measures	Compliance Status
Construction Phase:		
A	Air Environment	
1	Water sprinkling in vulnerable areas	Water sprinkling on road and other construction area as well as on construction materials is being carried out on regular bases.
2	Enforce proper maintenance of vehicles and construction equipment. Allowing only PUC approved vehicles in the site.	Please refer Condition No. ix of Part-B (General Conditions Construction phase) of EC and CRZ Clearance.
3	Enforce usage of covered trucks for transport of construction material.	Covered trucks are being used for handling of construction materials.
B	Noise Environment	
4	Enforce proper maintenance of vehicles and construction equipment. Enforce use of earmuffs / earplugs to workers in high noise level areas.	The vehicles of on-going construction work enter inside the premises after the fitness check. Ear protection device is provided to workers in high noise areas.
C	Water Environment	
5	Provide temporary drinking water supply and proper sanitation facilities within the site	Provision of drinking water and sanitation facility is being provided.
D	Land / Soil Environment	
6	Proper disposal of construction debris at regular intervals	Construction debris is being kept at identified temporary storage area and is being utilized for area development.
E	Thermal Environment	
7	Enforce (i) use of Portland Pozzallano Cement / (ii) use of Portland Slag Cement / (iii) use fly ash as admixture in construction	Part of fly ash generated from Adani Power Limited, Mundra is being utilized by Adani Group to manufacture paver blocks and the same paver blocks are used for development of back up area, footpath, colonies area, parking area, approach road etc. Please refer Condition No. xi of Part-B (General Conditions: Construction phase) of EC and CRZ Clearance.
F	Energy	
8	Wherever possible, piping shall be along the natural topography to permit gravity flow. Else, energy efficient pumps shall be used. Pipe material	Energy efficient pumps and HDPE Pipelines are used for supply of utilities. Refer point no. xii of EC & CRZ Clearance in Part – B (Operation Phase)

Sr. No.	Suggested Measures	Compliance Status
	shall be such as to minimize friction losses.	for energy efficient electrical fittings. Few of the buildings in MSTPL are designed as green building.
9	Wherever possible, natural light shall be used. Energy efficient electrical fittings and fixtures shall be used.	
 Operation Phase:		
A	Land / Soil Environment	
1	Good quality non-corrosive type pipeline should be used. Regular checking of the pipelines for early detection of any possible leakage and damage. Regular ground water monitoring should be done within the SEZ.	HDPE pipelines are used for supply of utility. Regular visual surveillance along the utility lines corridor is being done to check leakage or damage. Third party analysis of the ground water is being carried out at every three month by NABL and MoEF&CC accredited agency namely M/s. Pollucon Laboratories Pvt. Ltd. Please refer Condition No. v of Part-B (General Conditions: Construction phase) of EC and CRZ Clearance.
2	The waste should be transported in covered trucks. Vermi-composting is highly recommended for treatment and disposal of biodegradable and kitchen wastes. Other domestic solid waste (garbage) shall be disposed through MSW facility or as per prevailing norms.	Please refer Condition No. iv of Part-B (General Conditions: Construction phase) of EC and CRZ Clearance.
3	The waste should be transported in covered trucks. Transporter should be informed of remedial measures required to be taken in case of spillage of waste	Waste handling vehicles are being handled through covered trucks only. Details were submitted along with last compliance report submission i.e. Apr'17 to Sep'17.
B	Socio-Economic Environment	
4	It will encourage development of surrounding areas & further generate employment. People from various cultures shall mingle encouraging a more tolerant society.	Please refer Condition No. vii of Annexure – B (Compliance Status of MoEF & CC Order dated 18.09.2015).

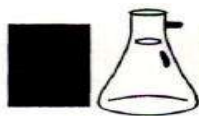
Annexure – 6

**POLLUCON****LABORATORIES PVT. LTD.**Environmental Auditors, Consultants & Analysts.
Cleaner Production / Waste Minimization Facilitator

Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

"HALF YEARLY ENVIRONMENTAL MONITORING REPORT"

FOR**ADANI PORTS AND SEZ LTD.
TAL: MUNDRA, KUTCH, MUNDRA – 370 421****MONITORING PERIOD:
APRIL 2018 TO SEPTEMBER 2018****PREPARED BY:****POLLUCON LABORATORIES PVT.LTD.****PLOT NO.5/6 "POLLUCON HOUSE", OPP. BALAJI INDUSTRIAL SOCIETY,
OLD SHANTINATH SILK MILL LANE, NEAR GAYTRI FARSAN MART,
NAVJIVAN CIRCLE, UDHANA MAGDALLA ROAD, SURAT-395007.
PHONE/FAX – (+91 261) 2455 751, 2601 106, 2601 224.
E-mail: pollucon@gmail.com Web: www.polluconlab.com****TC - 5945****ISO 9001:2015****ISO 14001:2015****OHSAS 18001:2007**



POLLUCON LABORATORIES PVT. LTD.

Environmental Auditors, Consultants & Analysts.
Cleaner Production / Waste Minimization Facilitator

Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

RESULT OF AMBIENT AIR QUALITY MONITORING

WTP- NEAR CETP						
Sr. No.	Date of Sampling	Particulate Matter (PM ₁₀) µg/m ³	Particulate Matter (PM _{2.5}) µg/m ³	Sulphur Dioxide (SO ₂) µg/m ³	Oxides of Nitrogen (NO ₂) µg/m ³	Hydrogen sulphide(H ₂ S) µg/m ³
1	04/04/2018	80.40	49.48	24.62	45.42	BDL*
2	07/04/2018	91.50	53.41	22.46	36.63	BDL*
3	11/04/2018	73.62	38.40	15.15	41.49	BDL*
4	14/04/2018	85.40	46.30	19.60	32.75	BDL*
5	18/04/2018	93.39	51.57	13.24	27.66	BDL*
6	21/04/2018	70.39	42.57	21.53	42.36	BDL*
7	25/04/2018	82.41	35.38	17.64	30.35	BDL*
8	28/04/2018	90.52	45.30	14.34	33.48	BDL*
9	02/05/2018	90.34	51.65	20.56	32.53	BDL*
10	05/05/2018	76.61	34.51	17.41	29.38	BDL*
11	09/05/2018	84.24	48.56	22.49	39.27	BDL*
12	12/05/2018	79.60	36.85	13.75	26.47	BDL*
13	16/05/2018	88.93	45.46	14.54	36.24	BDL*
14	19/05/2018	72.47	33.38	24.38	33.55	BDL*
15	23/05/2018	69.35	28.40	18.52	38.47	BDL*
16	26/05/2018	82.47	37.27	15.43	34.23	BDL*
17	30/05/2018	94.61	54.29	19.51	28.56	BDL*
18	02/06/2018	93.51	48.64	22.37	42.62	BDL*
19	06/06/2018	83.57	38.52	18.66	32.55	BDL*
20	09/06/2018	95.71	54.25	16.43	40.21	BDL*
21	13/06/2018	77.53	34.55	20.44	38.31	BDL*
22	16/06/2018	81.25	44.59	15.67	35.36	BDL*
23	20/06/2018	90.34	50.32	23.42	44.33	BDL*
24	23/06/2018	73.50	40.19	19.50	39.58	BDL*
25	27/06/2018	91.56	55.54	25.38	36.76	BDL*
26	30/06/2018	75.39	31.33	17.53	31.63	BDL*
27	04/07/2018	82.71	36.81	16.42	29.36	BDL*
28	07/07/2018	75.76	39.23	24.23	35.64	BDL*
29	11/07/2018	69.23	30.28	18.63	32.75	BDL*
30	14/07/2018	90.22	52.41	15.62	39.24	BDL*

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H. T. Shah

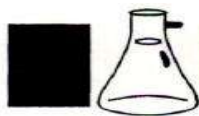
Lab Manager





Dr. Arun Bajpai

Lab Manager (Q)



POLLUCON LABORATORIES PVT. LTD.

Environmental Auditors, Consultants & Analysts.
Cleaner Production / Waste Minimization Facilitator

Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

WTP- NEAR CETP						
Sr.No.	Date of Sampling	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (SO ₂) $\mu\text{g}/\text{m}^3$	Oxides of Nitrogen (NO ₂) $\mu\text{g}/\text{m}^3$	Hydrogen sulphide(H ₂ S) $\mu\text{g}/\text{m}^3$
31	18/07/2018	60.27	24.76	13.55	33.45	BDL*
32	21/07/2018	87.65	48.56	19.52	42.67	BDL*
33	25/07/2018	84.52	54.38	22.30	36.71	BDL*
34	28/07/2018	76.37	33.21	20.28	38.34	BDL*
35	01/08/2018	76.43	37.68	24.51	39.42	BDL*
36	04/08/2018	82.65	40.28	20.38	45.35	BDL*
37	08/08/2018	90.22	51.28	15.77	34.52	BDL*
38	11/08/2018	87.65	47.64	18.37	29.51	BDL*
39	15/08/2018	64.35	31.29	21.32	37.24	BDL*
40	18/08/2018	74.30	28.57	12.69	25.25	BDL*
41	22/08/2018	88.75	39.27	17.84	31.46	BDL*
42	29/08/2018	73.44	32.75	17.54	21.45	BDL*
43	01/09/2018	86.37	46.84	20.63	32.32	--
44	05/09/2018	68.20	33.46	23.62	40.34	--
45	08/09/2018	82.47	38.69	25.65	44.21	--
46	12/09/2018	77.53	35.59	17.38	36.49	--
47	15/09/2018	91.80	48.69	22.33	39.57	--
48	19/09/2018	75.70	43.54	19.44	33.51	--
49	22/09/2018	66.85	31.20	13.63	28.72	--
50	26/09/2018	80.33	42.54	15.64	24.34	--
51	29/09/2018	93.63	47.56	18.65	35.21	--
TEST METHOD		IS:5182(Part 23):Gravimetric CPCB - Method (Vol.I,May-2011)	Gravimetric-CPCB - Method (Vol.I,May-2011)	IS:5182(Part II):Improved West and Gaeke	IS:5182(Part VI):Modified Jacob & Hochheiser (NaOH-NaAsO ₂)	IS:5182(Part VII) 1973

*Below detection limit



H. T. Shah

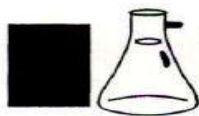
Lab Manager





Dr. Arun Bajpai

Lab Manager (Q)

**POLLUCON** LABORATORIES PVT. LTD.Environmental Auditors, Consultants & Analysts.
Cleaner Production / Waste Minimization Facilitator

Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

RESULT OF AMBIENT AIR QUALITY MONITORING

AIR STRIP								
Sr. No	Date of Sampling	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM 2.5) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (SO2) $\mu\text{g}/\text{m}^3$	Oxides of Nitrogen (NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide as CO mg/m^3	Hydrocarbon as CH ₄ mg/m^3	Benzene as C ₆ H ₆ $\mu\text{g}/\text{m}^3$
1	04/04/2018	47.50	31.65	5.61	18.24	0.34	BDL*	BDL*
2	07/04/2018	64.62	24.75	8.76	26.75	0.22	BDL*	BDL*
3	11/04/2018	79.48	48.58	9.70	31.30	0.11	BDL*	BDL*
4	14/04/2018	60.29	27.87	11.46	20.79	0.22	BDL*	BDL*
5	18/04/2018	46.53	36.77	7.21	15.56	0.18	BDL*	BDL*
6	21/04/2018	58.58	28.62	13.76	23.68	0.25	BDL*	BDL*
7	25/04/2018	50.61	23.42	15.14	19.46	0.36	BDL*	BDL*
8	28/04/2018	61.51	37.68	10.72	27.36	0.27	BDL*	BDL*
9	02/05/2018	62.48	35.69	6.65	23.53	0.14	BDL*	BDL*
10	05/05/2018	58.77	26.79	10.31	29.41	0.56	BDL*	BDL*
11	09/05/2018	66.81	23.75	14.53	15.67	0.31	BDL*	BDL*
12	12/05/2018	72.59	31.48	9.50	23.62	0.41	BDL*	BDL*
13	16/05/2018	83.50	48.62	11.37	27.75	0.53	BDL*	BDL*
14	19/05/2018	63.40	29.65	17.32	19.20	0.37	BDL*	BDL*
15	23/05/2018	54.20	22.63	12.37	26.39	0.25	BDL*	BDL*
16	26/05/2018	77.59	34.69	5.53	15.64	0.44	BDL*	BDL*
17	30/05/2018	80.63	30.49	13.19	21.26	0.60	BDL*	BDL*
18	02/06/2018	79.66	33.52	14.54	26.83	0.62	BDL*	BDL*
19	06/06/2018	62.42	28.66	12.55	35.41	0.46	BDL*	BDL*
20	09/06/2018	56.70	36.48	10.67	31.52	0.30	BDL*	BDL*
21	13/06/2018	70.65	20.59	13.40	21.54	0.39	BDL*	BDL*
22	16/06/2018	48.60	34.35	8.27	18.42	0.32	BDL*	BDL*
23	20/06/2018	59.50	24.66	18.53	34.68	0.17	BDL*	BDL*
24	23/06/2018	63.46	37.27	11.47	20.55	0.66	BDL*	BDL*
25	27/06/2018	80.45	43.51	6.58	25.37	0.22	BDL*	BDL*
26	30/06/2018	65.65	26.37	15.83	28.56	0.41	BDL*	BDL*
27	04/07/2018	59.32	24.29	9.46	25.61	0.28	BDL*	BDL*
28	07/07/2018	65.65	35.69	13.71	29.58	0.31	BDL*	BDL*
29	11/07/2018	54.20	27.24	7.54	19.24	0.11	BDL*	BDL*
30	14/07/2018	69.61	37.64	11.31	22.25	0.21	BDL*	BDL*

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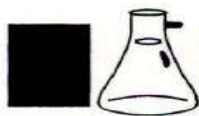
H. T. Shah

Lab Manager



Dr. Arun Bajpai

Lab Manager (Q)

**POLLUCON** LABORATORIES PVT. LTD.Environmental Auditors, Consultants & Analysts.
Cleaner Production / Waste Minimization Facilitator

Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

AIR STRIP								
Sr. No	Date of Sampling	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM 2.5) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (SO2) $\mu\text{g}/\text{m}^3$	Oxides of Nitrogen (NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide as CO mg/m^3	Hydrocarbon as CH ₄ mg/m^3	Benzene as C ₆ H ₆ $\mu\text{g}/\text{m}^3$
31	18/07/2018	52.37	22.79	5.47	16.62	0.23	BDL*	BDL*
32	21/07/2018	82.64	49.20	16.22	24.65	0.15	BDL*	BDL*
33	25/07/2018	70.82	33.42	10.41	19.64	0.39	BDL*	BDL*
34	28/07/2018	48.66	20.42	17.69	34.24	0.44	BDL*	BDL*
35	01/08/2018	75.33	34.56	11.84	26.27	0.53	BDL*	BDL*
36	04/08/2018	84.23	44.25	18.61	36.23	0.21	BDL*	BDL*
37	08/08/2018	69.24	29.41	9.49	20.34	0.41	BDL*	BDL*
38	11/08/2018	86.24	36.56	15.65	23.45	0.36	BDL*	BDL*
39	15/08/2018	57.80	18.34	8.35	31.64	0.31	BDL*	BDL*
40	18/08/2018	62.55	25.79	10.35	21.55	0.14	BDL*	BDL*
41	22/08/2018	83.62	30.24	14.54	25.47	0.30	BDL*	BDL*
42	29/08/2018	67.60	28.70	13.34	24.52	0.18	BDL*	BDL*
43	01/09/2018	80.27	41.26	7.50	17.55	0.46	BDL*	BDL*
44	05/09/2018	63.46	30.24	9.55	35.67	0.42	BDL*	BDL*
45	08/09/2018	71.68	38.93	13.53	28.65	0.77	BDL*	BDL*
46	12/09/2018	62.30	33.23	11.45	22.62	0.58	BDL*	BDL*
47	15/09/2018	72.65	37.60	18.29	29.35	0.30	BDL*	BDL*
48	19/09/2018	68.64	40.26	17.24	25.47	0.37	BDL*	BDL*
49	22/09/2018	58.59	28.49	8.66	21.28	0.19	BDL*	BDL*
50	26/09/2018	74.54	31.11	14.56	32.67	0.26	BDL*	BDL*
51	29/09/2018	85.63	36.39	16.37	38.35	0.62	BDL*	BDL*
	TEST METHOD	IS:5182(Part 23):Gravimetric CPCB - Method (Vol.I, May-2011)	Gravimetric-CPCB - Method (Vol.I, May-2011)	IS:5182(Part II):Improved West and Gaeke	IS:5182(Part VI):Modified Jacob & Hochheiser (NaOH-NaAsO ₂)	NDIR Digital Gas Analyzer	SOP: HC: GC/GCMS/Gas analyzer	IS 5182 (Part XI):2006/CPCB Method

*Below detection limit

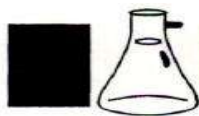
H. T. Shah

Lab Manager



Dr. Arun Bajpai

Lab Manager (Q)

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RESULTS OF AMBIENT AIR QUALITY MONITORING

SAMUDRA TOWNSHIP STP					
Sr. No.	Date of Sampling	Particulate Matter (PM ₁₀) µg/m ³	Particulate Matter (PM _{2.5}) µg/m ³	Sulphur Dioxide (SO ₂) µg/m ³	Oxides of Nitrogen (NO ₂) µg/m ³
1	04/04/2018	72.62	45.21	21.17	37.32
2	07/04/2018	80.62	48.29	15.18	42.56
3	11/04/2018	64.12	34.57	19.84	26.67
4	14/04/2018	49.67	17.41	8.88	27.89
5	18/04/2018	60.40	30.42	10.39	20.30
6	21/04/2018	45.58	18.34	14.22	29.15
7	25/04/2018	56.31	20.82	7.91	28.37
8	28/04/2018	68.09	32.41	12.47	19.42
9	02/05/2018	77.64	42.55	13.44	36.93
10	05/05/2018	53.46	22.11	8.33	17.59
11	09/05/2018	74.66	29.88	18.30	33.73
12	12/05/2018	58.66	25.72	11.64	19.67
13	16/05/2018	68.40	36.73	17.47	24.58
14	19/05/2018	55.38	24.64	15.31	23.42
15	23/05/2018	48.62	19.66	12.33	32.12
16	26/05/2018	62.57	28.76	9.52	20.32
17	30/05/2018	73.42	40.64	7.22	15.83
18	02/06/2018	60.34	44.63	8.51	17.65
19	06/06/2018	58.66	25.43	10.24	20.31
20	09/06/2018	79.38	41.22	19.23	28.28
21	13/06/2018	65.86	27.51	16.54	25.44
22	16/06/2018	54.26	30.38	12.61	32.41
23	20/06/2018	76.28	33.62	20.33	37.54
24	23/06/2018	68.83	29.46	9.55	23.64
25	27/06/2018	70.39	47.21	14.19	41.24
26	30/06/2018	52.65	21.57	11.58	24.61
27	04/07/2018	73.61	32.41	13.63	22.46
28	07/07/2018	53.83	28.46	18.47	18.35
29	11/07/2018	61.89	23.44	15.30	23.45
30	14/07/2018	70.26	41.76	17.49	26.32

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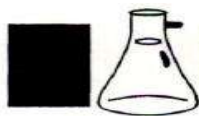
H. T. Shah

Lab Manager



Dr. Arun Bajpai

Lab Manager (Q)

**POLLUCON** LABORATORIES PVT. LTD.Environmental Auditors, Consultants & Analysts.
Cleaner Production / Waste Minimization Facilitator

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SAMUDRA TOWNSHIP STP					
Sr. No.	Date of Sampling	Particulate Matter (PM ₁₀) µg/m ³	Particulate Matter (PM _{2.5}) µg/m ³	Sulphur Dioxide (SO ₂) µg/m ³	Oxides of Nitrogen (NO ₂) µg/m ³
31	18/07/2018	49.24	19.86	11.28	28.93
32	21/07/2018	74.29	44.21	14.61	36.75
33	25/07/2018	64.58	27.79	12.83	31.88
34	28/07/2018	56.25	25.56	7.46	15.64
35	01/08/2018	68.65	30.38	14.32	34.26
36	04/08/2018	70.63	37.81	16.84	40.23
37	08/08/2018	62.45	26.68	6.45	28.23
38	11/08/2018	77.64	32.45	13.64	23.62
39	15/08/2018	51.60	24.48	17.38	20.71
40	18/08/2018	42.67	16.46	5.66	16.61
41	22/08/2018	78.69	33.53	19.46	29.28
42	29/08/2018	52.71	25.68	11.41	19.25
43	01/09/2018	60.34	36.57	15.52	25.67
44	05/09/2018	57.61	27.63	19.51	23.67
45	08/09/2018	76.28	33.33	17.55	38.45
46	12/09/2018	69.27	30.42	7.68	31.66
47	15/09/2018	72.31	26.59	14.25	36.25
48	19/09/2018	55.32	22.44	12.34	28.48
49	22/09/2018	47.56	18.24	6.54	19.32
50	26/09/2018	52.40	28.34	11.35	35.76
51	29/09/2018	71.25	40.81	13.25	29.47
	TEST METHOD	IS:5182(Part 23):Gravimetric CPCB - Method (Vol.I, May-2011)	Gravimetric- CPCB - Method (Vol.I, May-2011)	IS:5182(Part II):Improved West and Gaeke	IS:5182(Part VI):Modified Jacob & Hochheiser (NaOH-NaAsO ₂)

*Below detection limit

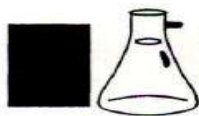
H. T. Shah

Lab Manager



Dr. Arun Bajpai

Lab Manager (Q)



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Environmental Auditors, Consultants & Analysts.
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RESULTS OF AMBIENT AIR QUALITY MONITORING

SAMUDRA TOWNSHIP CUSTOMER CARE					
Sr.No.	Date of Sampling	Particulate Matter (PM ₁₀) µg/m ³	Particulate Matter (PM _{2.5}) µg/m ³	Sulphur Dioxide (SO ₂) µg/m ³	Oxides of Nitrogen (NO ₂) µg/m ³
1	04/04/2018	52.60	19.54	17.65	28.49
2	07/04/2018	73.60	33.40	13.59	33.36
3	11/04/2018	59.32	27.54	10.46	38.57
4	14/04/2018	67.55	23.62	16.90	22.35
5	18/04/2018	70.58	39.29	12.52	24.59
6	21/04/2018	45.58	18.34	14.22	29.15
7	25/04/2018	64.28	30.34	11.27	21.48
8	28/04/2018	74.45	40.36	7.22	30.46
9	02/05/2018	69.67	37.56	10.68	29.67
10	05/05/2018	70.21	31.21	14.24	20.47
11	09/05/2018	54.66	26.35	15.42	25.66
12	12/05/2018	62.65	27.54	18.33	27.24
13	16/05/2018	74.33	40.24	13.45	33.45
14	19/05/2018	50.24	21.85	19.58	26.87
15	23/05/2018	43.28	15.54	16.18	28.42
16	26/05/2018	72.51	25.40	12.61	22.53
17	30/05/2018	67.25	36.28	9.55	19.42
18	02/06/2018	72.57	39.54	18.51	22.68
19	06/06/2018	65.80	32.37	16.32	26.57
20	09/06/2018	75.72	45.60	13.58	36.45
21	13/06/2018	53.69	23.62	10.50	30.52
22	16/06/2018	68.76	26.43	9.62	24.57
23	20/06/2018	71.55	29.64	15.76	28.35
24	23/06/2018	58.41	22.47	14.34	32.34
25	27/06/2018	63.25	40.82	11.23	29.57
26	30/06/2018	47.21	17.56	8.57	20.46
27	04/07/2018	67.25	28.53	7.67	18.71
28	07/07/2018	59.26	31.54	15.25	24.39
29	11/07/2018	49.39	18.43	9.54	28.49
30	14/07/2018	62.47	34.55	13.24	33.52

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H. T. Shah

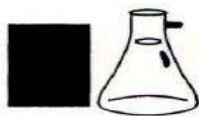
Lab Manager





Dr. Arun Bajpai

Lab Manager (Q)



POLLUCON LABORATORIES PVT. LTD.

Environmental Auditors, Consultants & Analysts.
Cleaner Production / Waste Minimization Facilitator

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SAMUDRA TOWNSHIP CUSTOMER CARE					
Sr.No.	Date of Sampling	Particulate Matter (PM ₁₀) µg/m ³	Particulate Matter (PM _{2.5}) µg/m ³	Sulphur Dioxide (SO ₂) µg/m ³	Oxides of Nitrogen (NO ₂) µg/m ³
31	18/07/2018	42.61	16.37	8.40	22.72
32	21/07/2018	66.22	41.52	10.58	27.51
33	25/07/2018	52.76	24.83	16.55	26.43
34	28/07/2018	60.53	29.44	14.22	20.55
35	01/08/2018	57.38	27.54	17.66	29.64
36	04/08/2018	66.46	36.32	11.60	31.25
37	08/08/2018	53.63	31.38	13.40	25.32
38	11/08/2018	69.43	29.60	10.61	20.47
39	15/08/2018	46.37	21.52	14.42	28.32
40	18/08/2018	48.36	19.50	8.60	19.33
41	22/08/2018	73.36	26.30	12.73	36.66
42	29/08/2018	49.27	22.47	6.52	15.31
43	01/09/2018	66.52	32.53	13.73	22.19
44	05/09/2018	50.36	23.46	16.56	30.68
45	08/09/2018	68.34	30.63	19.40	35.34
46	12/09/2018	59.68	26.43	9.69	28.32
47	15/09/2018	77.66	42.63	12.68	32.56
48	19/09/2018	62.83	28.65	14.36	21.55
49	22/09/2018	52.60	21.69	10.25	25.70
50	26/09/2018	60.23	24.70	7.23	17.64
51	29/09/2018	79.23	43.79	11.54	19.62
	TEST METHOD	IS:5182(Part 23):Gravimetric CPCB - Method (Vol.I,May-2011)	Gravimetric- CPCB - Method (Vol.I,May-2011)	IS:5182(Part II):Improved West and Gaeke	IS:5182(Part VI):Modified Jacob & Hochheiser (NaOH-NaAsO ₂)

*Below detection limit



H. T. Shah

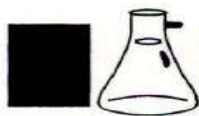
Lab Manager





Dr. Arun Bajpai

Lab Manager (Q)

**POLLUCON** LABORATORIES PVT. LTD.Environmental Auditors, Consultants & Analysts.
Cleaner Production / Waste Minimization Facilitator

Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

RESULT OF AMBIENT AIR QUALITY MONITORING

ADANI HOUSE								
Sr. No.	Date of Sampling	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM 2.5) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (SO2) $\mu\text{g}/\text{m}^3$	Oxides of Nitrogen (NO2) $\mu\text{g}/\text{m}^3$	Carbon Monoxide as CO mg/m^3	Hydrocarbon as CH4 mg/m^3	Benzene as C6H6 $\mu\text{g}/\text{m}^3$
1	03/04/2018	80.60	43.76	15.82	39.57	0.42	BDL*	BDL*
2	06/04/2018	65.41	29.34	18.46	30.56	0.60	BDL*	BDL*
3	10/04/2018	79.39	36.72	11.31	26.63	0.80	BDL*	BDL*
4	13/04/2018	64.20	27.63	9.40	22.70	0.61	BDL*	BDL*
5	17/04/2018	52.58	19.42	19.46	35.47	0.18	BDL*	BDL*
6	20/04/2018	72.47	41.56	10.42	34.71	0.73	BDL*	BDL*
7	24/04/2018	82.72	46.72	16.70	31.53	0.29	BDL*	BDL*
8	27/04/2018	62.51	26.38	14.73	25.24	0.36	BDL*	BDL*
9	01/05/2018	56.76	23.84	18.45	31.83	0.17	BDL*	BDL*
10	04/05/2018	80.78	37.72	15.64	27.63	0.27	BDL*	BDL*
11	08/05/2018	50.47	21.30	12.49	22.69	0.34	BDL*	BDL*
12	11/05/2018	79.33	44.55	7.34	25.74	0.77	BDL*	BDL*
13	15/05/2018	60.45	25.63	9.78	19.63	0.58	BDL*	BDL*
14	18/05/2018	76.37	30.71	16.79	33.65	0.53	BDL*	BDL*
15	22/05/2018	55.37	33.42	11.85	30.58	0.70	BDL*	BDL*
16	25/05/2018	82.78	35.63	5.64	35.63	0.40	BDL*	BDL*
17	29/05/2018	65.47	29.76	8.67	26.70	0.57	BDL*	BDL*
18	01/06/2018	72.43	32.55	16.37	35.61	0.65	BDL*	BDL*
19	05/06/2018	53.61	23.21	13.92	25.30	0.44	BDL*	BDL*
20	08/06/2018	60.81	39.22	8.69	21.57	0.96	BDL*	BDL*
21	12/06/2018	75.64	42.55	11.53	31.21	0.41	BDL*	BDL*
22	15/06/2018	64.26	24.55	17.23	36.57	0.23	BDL*	BDL*
23	19/06/2018	81.63	46.26	9.53	19.63	0.87	BDL*	BDL*
24	22/06/2018	66.86	29.26	10.92	22.59	0.54	BDL*	BDL*
25	26/06/2018	58.39	34.26	18.58	29.53	0.39	BDL*	BDL*
26	29/06/2018	70.50	26.26	6.58	39.55	0.46	BDL*	BDL*
27	03/07/2018	69.53	38.67	10.33	27.75	0.26	BDL*	BDL*
28	06/07/2018	56.76	24.84	14.50	31.54	0.15	BDL*	BDL*
29	10/07/2018	77.58	43.63	6.50	25.33	0.44	BDL*	BDL*
30	13/07/2018	62.69	31.34	12.64	21.57	0.29	BDL*	BDL*

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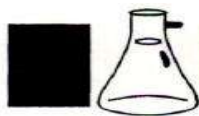
H. T. Shah

Lab Manager



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ADANI HOUSE								
Sr. No	Date of Sampling	Particulate Matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM _{2.5}) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (SO ₂) $\mu\text{g}/\text{m}^3$	Oxides of Nitrogen (NO ₂) $\mu\text{g}/\text{m}^3$	Carbon Monoxide as CO mg/m^3	Hydrocarbon as CH ₄ mg/m^3	Benzene as C ₆ H ₆ $\mu\text{g}/\text{m}^3$
31	17/07/2018	48.83	19.71	5.37	18.35	0.18	BDL*	BDL*
32	20/07/2018	65.84	37.30	11.58	28.55	0.31	BDL*	BDL*
33	24/07/2018	54.60	23.42	7.55	30.64	0.48	BDL*	BDL*
34	27/07/2018	76.79	45.76	9.63	38.46	0.58	BDL*	BDL*
35	31/07/2018	59.60	33.67	7.53	16.46	0.32	BDL*	BDL*
36	03/08/2018	59.72	33.21	12.68	29.51	0.33	BDL*	BDL*
37	07/08/2018	67.23	27.51	10.53	25.50	0.52	BDL*	BDL*
38	10/08/2018	76.85	45.43	8.40	18.80	0.27	BDL*	BDL*
39	14/08/2018	61.48	30.46	11.53	28.51	0.47	BDL*	BDL*
40	17/08/2018	55.67	22.46	6.86	16.27	0.30	BDL*	BDL*
41	21/08/2018	74.55	29.92	9.69	36.75	0.40	BDL*	BDL*
42	24/08/2018	65.84	37.67	13.51	27.59	0.26	BDL*	BDL*
43	28/08/2018	72.55	42.84	17.56	32.78	0.44	BDL*	BDL*
44	31/08/2018	48.35	18.55	16.57	21.58	0.13	BDL*	BDL*
45	04/09/2018	72.55	26.88	15.67	30.76	0.25	BDL*	BDL*
46	07/09/2018	65.72	39.34	12.61	22.39	0.62	BDL*	BDL*
47	11/09/2018	53.25	22.59	9.38	26.26	0.18	BDL*	BDL*
48	14/09/2018	76.43	43.47	10.54	29.63	0.74	BDL*	BDL*
49	18/09/2018	68.26	28.38	13.18	33.58	0.67	BDL*	BDL*
50	21/09/2018	88.29	35.72	16.54	20.52	0.52	BDL*	BDL*
51	25/09/2018	56.82	31.63	8.70	25.60	0.58	BDL*	BDL*
52	28/09/2018	63.29	36.55	14.69	23.63	0.34	BDL*	BDL*
	TEST METHOD	IS:5182(Part 23):Gravimetric CPCB - Method (Vol.I, May-2011)	Gravimetric-CPCB - Method (Vol.I, May-2011)	IS:5182(Part II):Improved West and Gaeke	IS:5182(Part VI):Modified Jacob & Hochheiser (NaOH-NaAsO ₂)	NDIR Digital Gas Analyzer	SOP: HC: GC/GCMS/Gas analyzer	IS 5182 (Part XI):2006/CPCB Method

*Below detection limit



H. T. Shah

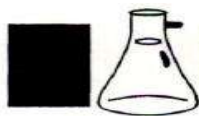
Lab Manager





Dr. Arun Bajpai

Lab Manager (Q)



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RESULTS OF NOISE LEVEL MONITORING

Result of Noise level monitoring [Day Time]

SR. NO.	Name of Location	CETP					
		Result [dB(A) Leq]					
	Sampling Date & Time	11/04/2018	16/05/2018	06/06/2018	04/07/2018	22/08/2018	01/09/2018
1	6:00-7:00	62.4	59.4	62.4	59.3	62.1	61.2
2	7:00-8:00	60.8	62.4	62.9	62.5	60.8	63.8
3	8:00-9:00	63.4	61.7	68.0	67.3	65.9	64.7
4	9:00-10:00	61.9	69.1	65.1	65.4	67.4	67.8
5	10:00-11:00	69.4	70.4	60.4	64.0	64.3	70.4
6	11:00-12:00	65.7	66.1	62.4	65.2	65.6	65.5
7	12:00-13:00	68.4	63.4	65.8	68.3	69.5	63.4
8	13:00-14:00	62.4	61.5	69.1	71.3	65.2	70.2
9	14:00-15:00	60.5	65.2	63.1	65.2	62.1	72.1
10	15:00-16:00	63.4	66.1	61.4	65.8	70.1	68.8
11	16:00-17:00	62.4	68.4	65.2	67.4	63.5	61.2
12	17:00-18:00	63.4	63.4	60.8	66.2	65.2	63.4
13	18:00-19:00	60.7	62.8	69.0	62.7	62.4	68.5
14	19:00-20:00	62.8	65.1	65.3	69.2	68.5	67.0
15	20:00-21:00	68.7	61.2	67.1	65.3	61.5	64.3
16	21:00-22:00	66.1	62.4	62.4	68.3	64.9	63.8
Day Time Limit*		75 dB(A) Leq					

Result of Noise level monitoring [Night Time]

	Name of Location	CETP					
		Result [dB(A) Leq]					
	Sampling Date & Time	11/04/2018	16/05/2018	06/06/2018	04/07/2018	22/08/2018	01/09/2018
1	22:00-23:00	63.4	65.4	62.4	67.3	60.4	60.4
2	23:00-00:00	62.7	62.4	62.9	62.1	62.4	62.8
3	00:00-01:00	68.4	61.5	60.4	63.1	58.2	59.4
4	01:00-02:00	61.4	63.4	58.4	60.5	62.5	62.7
5	02:00-03:00	60.8	68.5	55.1	59.3	62.3	61.8
6	03:00-04:00	65.3	65.1	62.4	57.3	65.2	60.9
7	04:00-05:00	62.4	62.4	54.1	62.3	61.2	60.4
8	05:00-06:00	62.4	65.8	56.4	64.2	63.8	62.8
Night Time Limit*		70 dB(A) Leq					



H. T. Shah

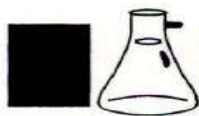
Lab Manager





Dr. Arun Bajpai

Lab Manager (Q)

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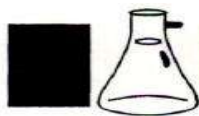
RESULTS OF NOISE LEVEL MONITORING**Result of Noise level monitoring [Day Time]**

SR. NO.	Name of Location	AIR STRIP					
		Result [dB(A) Leq]					
	Sampling Date & Time	18/04/2018	23/05/2018	20/06/2018	05/07/2018	29/08/2018	19/09/2018
1	6:00-7:00	55.1	56.1	54.1	56.3	55.1	49.5
2	7:00-8:00	60.4	60.4	56.4	58.3	52.4	47.7
3	8:00-9:00	59.9	65.1	60.4	62.6	62.4	58.5
4	9:00-10:00	63.4	61.2	62.4	67.2	61.5	53.4
5	10:00-11:00	65.1	65.4	59.4	65.3	63.2	59.1
6	11:00-12:00	62.4	64.7	63.4	66.2	62.5	62.4
7	12:00-13:00	60.7	56.4	55.8	59.2	69.5	63.1
8	13:00-14:00	68.4	59.8	57.1	60.2	65.4	57.3
9	14:00-15:00	63.4	60.8	63.4	67.2	64.8	52.1
10	15:00-16:00	61.5	60.7	62.4	65.3	66.2	56.4
11	16:00-17:00	65.6	57.1	61.8	57.2	62.4	64.8
12	17:00-18:00	66.1	59.4	65.1	62.1	63.5	58.8
13	18:00-19:00	63.4	60.1	62.5	60.2	66.1	60.0
14	19:00-20:00	61.5	63.1	58.4	57.3	68.4	58.4
15	20:00-21:00	62.8	59.8	55.4	59.2	65.8	65.2
16	21:00-22:00	66.1	56.1	62.4	62.7	61.7	63.3
Day Time Limit*		75 dB(A) Leq					

Result of Noise level monitoring [Night Time]

SR. NO.	Name of Location	AIR STRIP					
		Result [dB(A) Leq]					
	Sampling Date & Time	18/04/2018	23/05/2018	20/06/2018	05/07/2018	29/08/2018	19/09/2018
1	22:00-23:00	63.1	55.1	56.4	56.3	56.4	55.7
2	23:00-00:00	60.4	52.4	60.1	59.2	52.4	59.4
3	00:00-01:00	58.4	55.8	49.2	62.4	46.6	56.1
4	01:00-02:00	55.7	58.4	51.8	54.2	48.1	60.8
5	02:00-03:00	52.4	60.4	56.1	51.3	48.7	62.8
6	03:00-04:00	51.4	59.4	52.4	50.3	53.4	57.1
7	04:00-05:00	56.1	57.4	59.4	47.2	55.6	53.8
8	05:00-06:00	60.4	62.4	62.4	53.2	58.8	59.7
Night Time Limit*		70 dB(A) Leq					

H. T. Shah**Lab Manager****Dr. Arun Bajpai****Lab Manager (Q)**

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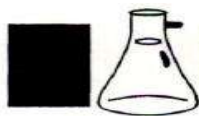
Result of Noise level monitoring [Day Time]

SR. NO.	Name of Location	SAMUNDRA TOWNSHIP STP					
		Result [Leq dB(A)]					
	Sampling Date & Time	25/04/2018	02/05/2018	13/06/2018	18/07/2018	01/08/2018	12/09/2018
1	6:00-7:00	55.1	60.4	58.4	57.2	65.2	62.3
2	7:00-8:00	61.8	58.7	60.1	60.3	62.1	58.8
3	8:00-9:00	65.4	62.4	62.4	65.3	62.7	52.1
4	9:00-10:00	62.1	63.7	60.4	68.4	67.5	60.0
5	10:00-11:00	62.3	61.4	68.4	65.1	63.1	59.7
6	11:00-12:00	63.4	59.4	63.1	61.7	60.9	67.4
7	12:00-13:00	60.4	57.1	62.4	67.3	63.5	62.9
8	13:00-14:00	62.4	62.8	61.4	65.5	65.2	61.4
9	14:00-15:00	61.8	66.2	68.4	68.3	62.4	62.7
10	15:00-16:00	62.7	62.1	65.7	66.3	69.4	64.8
11	16:00-17:00	67.4	62.8	66.1	65.3	72.4	62.0
12	17:00-18:00	60.4	61.7	61.4	71.3	74.1	67.4
13	18:00-19:00	61.4	63.8	63.4	69.3	70.2	65.8
14	19:00-20:00	63.4	68.4	68.1	67.3	69.5	61.9
15	20:00-21:00	60.8	65.5	62.4	65.3	65.2	59.8
16	21:00-22:00	65.8	62.7	63.1	66.3	63.4	58.1
Day Time Limit*		75 Leq dB(A)					

Result of Noise level monitoring [Night Time]

SR. NO.	Name of Location	SAMUNDRA TOWNSHIP STP					
		Result [Leq dB(A)]					
	Sampling Date & Time	25/04/2018	02/05/2018	13/06/2018	18/07/2018	01/08/2018	12/09/2018
1	22:00-23:00	65.4	65.1	60.4	61.3	58.4	65.1
2	23:00-00:00	68.4	62.4	62.4	64.3	60.4	58.7
3	00:00-01:00	62.4	68.4	59.4	58.3	60.2	53.7
4	01:00-02:00	61.4	59.4	63.4	62.4	63.4	52.9
5	02:00-03:00	59.4	62.4	61.4	64.2	61.4	52.1
6	03:00-04:00	63.4	61.5	60.4	67.3	63.2	56.4
7	04:00-05:00	61.7	65.4	58.1	65.2	61.7	55.9
8	05:00-06:00	62.4	63.8	56.8	65.3	60.3	58.4
Night Time Limit*		70 Leq dB(A)					

H. T. Shah**Lab Manager****Dr. Arun Bajpai****Lab Manager (Q)**

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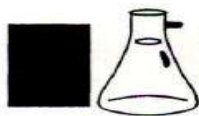
Result of Noise level monitoring [Day Time]

SR. NO.	Name of Location	SAMUNDRA TOWNSHIP CUSTOMER CARE					
		Result [Leq dB(A)]					
	Sampling Date & Time	04/04/2018	09/05/2018	27/06/2018	25/07/2018	08/08/2018	05/09/2018
1	6:00-7:00	60.4	55.1	58.4	64.2	54.5	52.4
2	7:00-8:00	62.4	60.4	60.1	60.3	59.5	60.4
3	8:00-9:00	59.4	61.8	65.1	62.5	62.4	61.9
4	9:00-10:00	63.4	68.4	63.1	68.3	65.4	58.7
5	10:00-11:00	68.7	67.1	64.2	60.2	68.4	68.4
6	11:00-12:00	65.1	63.1	68.4	57.3	63.4	64.5
7	12:00-13:00	61.4	62.4	62.4	64.2	61.5	65.1
8	13:00-14:00	68.2	61.5	63.1	59.9	60.4	68.7
9	14:00-15:00	65.2	60.2	68.4	61.9	68.4	69.0
10	15:00-16:00	62.4	60.8	62.4	60.2	68.1	62.4
11	16:00-17:00	61.8	65.1	65.1	65.3	62.5	61.4
12	17:00-18:00	69.4	61.8	62.1	66.2	64.8	63.8
13	18:00-19:00	65.3	68.4	63.4	65.1	66.2	59.1
14	19:00-20:00	63.4	65.2	68.4	62.1	60.1	62.7
15	20:00-21:00	68.7	62.8	67.4	68.4	61.6	64.8
16	21:00-22:00	65.1	67.1	62.4	67.3	62.4	61.9
Day Time Limit*		75 Leq dB(A)					

Result of Noise level monitoring [Night Time]

SR. NO.	Name of Location	SAMUNDRA TOWNSHIP CUSTOMER CARE					
		Result [Leq dB(A)]					
	Sampling Date & Time	04/04/2018	09/05/2018	27/06/2018	25/07/2018	08/08/2018	05/09/2018
1	22:00-23:00	60.4	63.1	63.4	65.3	62.4	62.8
2	23:00-00:00	62.4	60.7	58.1	60.2	56.3	65.7
3	00:00-01:00	57.4	60.3	55.1	58.3	50.4	55.4
4	01:00-02:00	55.1	59.8	52.4	60.2	52.5	59.8
5	02:00-03:00	59.4	57.1	53.8	53.2	49.2	56.8
6	03:00-04:00	60.4	55.1	55.1	49.4	56.3	55.4
7	04:00-05:00	61.4	59.1	59.4	51.2	58.3	53.4
8	05:00-06:00	59.9	60.4	60.7	52.4	61.9	68.4
Night Time Limit*		70 Leq dB(A)					

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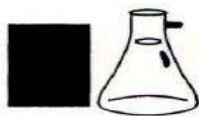
Result of Noise level monitoring [Day Time]

SR. NO.	Name of Location	ADANI HOUSE					
		Result [Leq dB(A)]					
	Sampling Date & Time	10/04/2018	01/05/2018	15/06/2018	17/07/2018	21/08/2018	04/09/2018
1	6:00-7:00	63.1	60.1	66.1	62.4	58.4	64.3
2	7:00-8:00	60.4	63.4	65.7	56.1	63.1	68.8
3	8:00-9:00	69.1	68.4	68.1	63.1	61.5	65.7
4	9:00-10:00	72.4	62.1	62.1	61.8	62.5	70.1
5	10:00-11:00	70.1	68.7	63.4	68.4	69.4	72.4
6	11:00-12:00	65.1	70.5	65.1	70.4	72.1	63.4
7	12:00-13:00	68	63.4	68.1	71.8	70.1	60.4
8	13:00-14:00	67.2	68.1	70.1	68.8	68.4	67.9
9	14:00-15:00	62.4	68.5	70.6	66.1	65.4	67.5
10	15:00-16:00	62.4	66.4	69.4	69.4	60.4	62.4
11	16:00-17:00	65.3	62.1	65.1	62.5	68.5	70.3
12	17:00-18:00	68.1	69.4	62.1	63.4	65.2	71.9
13	18:00-19:00	63.4	64.2	60.4	60.4	64.8	68.8
14	19:00-20:00	65.1	62.9	64.1	65.4	63.1	62.1
15	20:00-21:00	62.5	63.4	70.1	68.1	61.4	60.1
16	21:00-22:00	63.1	61.8	68.1	66.8	62.8	64.1
Day Time Limit*		75 Leq dB(A)					

Result of Noise level monitoring [Night Time]

SR. NO.	Name of Location	ADANI HOUSE					
		Result [Leq dB(A)]					
	Sampling Date & Time	10/04/2018	01/05/2018	15/06/2018	17/07/2018	21/08/2018	04/09/2018
1	22:00-23:00	65.1	62.4	68.4	67.3	60.4	68.4
2	23:00-00:00	68.4	66.2	65.1	59.5	65.1	64.2
3	00:00-01:00	68.2	66.8	60.4	63.1	65.4	62.1
4	01:00-02:00	65.4	63.4	62.4	61.0	61.8	62.1
5	02:00-03:00	62.4	61.5	58.1	61.3	63.4	60.4
6	03:00-04:00	66.1	65.9	60.8	63.4	62.4	64.8
7	04:00-05:00	60.4	67.1	60.7	68.3	65.7	63.1
8	05:00-06:00	63.1	65.6	61.8	66.2	67.1	61.7
Night Time Limit*		70 Leq dB(A)					

H. T. Shah**Lab Manager****Dr. Arun Bajpai****Lab Manager (Q)**

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RESULTS OF STP WATER OUTLET

SR. NO	TEST PARAMETERS	Unit	ADANI HOUSE STP OUTLET							
			April-18		May-18		June-18		GPCB Permissible Limit	TEST METHOD
			04/04/2018	17/04/2018	02/05/2018	15/05/2018	05/06/2018	20/06/2018		
1	pH	--	7.34	7.4	7.10	7.21	7.15	7.26	--	IS3025(P11)83Re.02
2	Total Suspended Solids	mg/L	23	24	20	28	27	17	100	IS3025(P17)84Re.02
3	BOD (3 days @ 270 C)	mg/L	14	18	16	18	16	15	30	IS 3025 (P44)1993Re.03Edition2.1
4	Fecal Coliform	MPN/100 mL	920	550	550	950	450	350	< 1000	APHA (22ndEdi) 9221 C&E

SR. NO	TEST PARAMETERS	Unit	ADANI HOUSE STP OUTLET							
			July-18		August-18		September-18		GPCB Permissible Limit	TEST METHOD
			10/07/2018	23/07/2018	04/08/2018	14/08/2018	05/09/2018	19/09/2018		
1	pH	--	7.88	7.65	7.34	7.28	7.15	7.39	--	IS3025(P11)83Re.02
2	Total Suspended Solids	mg/L	12	16	23	14	16	10	100	IS3025(P17)84Re.02
3	BOD (3 days @ 270 C)	mg/L	10	12	16	8	16	14	30	IS 3025 (P44)1993Re.03Edition2.1
4	Fecal Coliform	MPN/100 mL	550	450	400	550	400	450	< 1000	APHA (22ndEdi) 9221 C&E

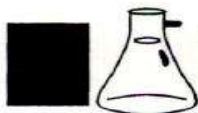
H. T. Shah

Lab Manager



Dr. Arun Bajpai

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RESULTS OF BORE HOLE WATER

SR. NO	TEST PARAMETERS	UNIT	RESULTS						TEST METHOD
			OPP. DRUB RAILWAY STATION		NEAR PUB BUILDING		NEAR CETP MAIN GATE		
GPS Location			N 22° 43.073’ E 069° 39.861’		N 22° 46.761’ E 069° 40.999’		N 22° 48.630’ S 069° 42.393		
Sampling Date			20/04/2018	16/08/2018	20/04/2018	16/08/2018	20/04/2018	16/08/2018	
Sampling Time			10:30	10:00	11:00	10:35	13:00	9:45	
1	pH	--	7.53	7.2	7.87	6.98	7.84	7.9	IS3025(P11)83Re.02
2	Salinity	mg/L	37.7	32	6.31	5	3.35	0.7	APHA 2520B
3	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	APHA(22ndEdi)5520D
4	Hydrocarbon	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	GC/GC-MS
5	Lead as Pb	mg/L	BDL*	0.094	0.011	0.16	0.07	0.04	AAS APHA(22ndEdi)3111 B
6	Arsenic as As	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	AAS APHA 3114 B
7	Nickel as Ni	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	AAS APHA(22ndEdi)3111 B
8	Total Chromium as Cr	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	AAS 3111B
9	Cadmium as Cd	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	AAS APHA(22ndEdi)3111 B
10	Mercury as Hg	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	AAS APHA- 3112 B
11	Zinc as Zn	mg/L	BDL*	BDL*	BDL*	1.54	BDL*	BDL*	AAS APHA(22ndEdi)3111 B
12	Copper as Cu	mg/L	BDL*	0.011	BDL*	0.48	BDL*	BDL*	AAS APHA(22ndEdi)3111 B
13	Iron as Fe	mg/L	0.21	BDL*	BDL*	0.116	0.15	0.18	AAS APHA(22ndEdi)3111 B
14	Insecticides/Pesticides	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	GC/GC-MS
15	Depth of Water Level from Ground Level	meter	1.7	2.5	1.94	2.6	1.86	1.7	--

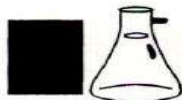
H. T. Shah

Lab Manager



Dr. Arun Bajpai

Lab Manager (Q)

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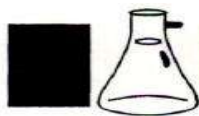
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RESULTS OF SOIL

SR. NO.	TEST PARAMETERS	UNIT	RESULT			
			SEPTEMBER - 2018			
			CETP	Dhrub	Near Flyover Bridge	Pub Building
1	pH	--	7.68	8.24	7.68	8.78
2	Nitrogen as N	%	0.020	0.036	0.026	0.046
3	Phosphorus as P	mg/kg	310	110	130	98
4	Potassium as K	mg/kg	24	74	72	42
5	Baron as B	mg/kg	1.42	1.2	1.20	1.80
6	Calcium as Ca	mg/kg	750	66.8	436	40.2
7	Magnesium as Mg	mg/kg	622	7.2	64	7.4
8	Iron as Fe	%	0.69	0.88	1.2	0.36
9	Moisture	%	7.6	3.96	8.9	12.2
10	Organic Matter	%	0.16	0.096	0.12	0.084
11	CEC	meq/100 gm	5.8	6.8	7.2	5.2
12	TVC	CFU/gm	3.8×10^3	3.2×10^3	3.6×10^3	4.0×10^3
A	Heavy Metals					
13	Cadmium as Cd	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected
14	Thorium as Th	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected
15	Antimony as Sb	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected
16	Arsenic as As	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected
17	Lead as Pb	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected
18	Chromium (VI) as Cr	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected
19	Cobalt as Co	mg/kg	3.6	5.3	4.2	1.6
20	Copper as Cu	mg/kg	8.2	14.6	6.8	4.2
21	Nickel as Ni	mg/kg	22.6	16.2	36.2	74.9
22	Manganese as Mn	mg/kg	170	188	320	110
23	Vanadium as V	mg/kg	18.2	9.6	9.8	12.8

Not Detected [Minimum Detection Limit for Solid Waste/Soil sample prepared as per USEPA method 3050 B: Cadmium as Cd: 0.1 mg/kg, Thorium as Th: 0.1 mg/kg, Antimony as Sb: 0.05 mg/kg, Arsenic as As: 0.05 mg/kg, Lead as Pb: 0.1 mg/kg, Chromium (VI) as Cr: 0.1 mg/kg, Cobalt as Co: 0.1 mg/kg]

H. T. Shah**Lab Manager****Dr. Arun Bajpai****Lab Manager (Q)**



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Minimum Detection Limit [MDL]

Water parameter(mg/L)		
Sr. No.	Test parameter	MDL
1	pH	2
2	Temperature	2
3	Colour	2
4	Total Suspended Solids	2
5	Oil & Grease	2
6	Phenolic Compound	0.005
7	Fluorides	0.05
8	Iron	0.01
9	Zinc as Zn	0.05
10	Trivalent Chromium	0.05
11	Sulphide as S	0.1
12	Ammonical Nitrogen as NH ₃	0.2
13	BOD (3 Days @ 27 °C)	1
14	COD	5
15	Chloride as Cl	1
16	Sulphate as SO ₄	1
17	Total Dissolved Solids	10
18	Total Residual Chlorine	0.2
19	Copper as Cu	0.01

Borehole Water Parameters			
SR. NO.	TEST PARAMETERS	UNIT	MDL
1	pH	--	2
2	Salinity	mg/L	0.5
3	Oil & Grease	mg/L	2
4	Hydrocarbon	mg/L	0.01
5	Lead as Pb	mg/L	0.01
6	Arsenic as As	mg/L	0.001
7	Nickel as Ni	mg/L	0.02
8	Total Chromium as Cr	mg/L	0.025
9	Cadmium as Cd	mg/L	0.002
10	Mercury as Hg	mg/L	0.005
11	Zinc as Zn	mg/L	0.06
12	Copper as Cu	mg/L	0.01
13	Iron as Fe	mg/L	0.1
14	Insecticides/Pesticides	mg/L	0.1



H. T. Shah

Lab Manager





Dr. Arun Bajpai

Lab Manager (Q)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

POLLUCON LABORATORIES PVT. LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

5/6 "Pollucon House", Old Shantinath Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat, Gujarat

in the field of

TESTING

Certificate Number TC-5945 (In lieu of T-0821 & T-0820)

Issue Date 28/05/2017



Valid Until 27/05/2019

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

N. Venkateswaran
Program Director

Anil Relia
Chief Executive Officer
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भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

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नई दिल्ली, शुक्रवार, जून 3, 2016/ज्येष्ठ 13, 1938

No. 1357]

NEW DELHI, FRIDAY, JUNE 3, 2016/JYAISTHA 13, 1938

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 2 जून, 2016

का.आ. 1953(अ).—केन्द्रीय सरकार के साथ पठित पर्यावरण (संरक्षण) नियम, 1986 के नियम 10 पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 12 की उपधारा (1) के खंड (ख) और धारा 13 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए और भारत सरकार के तत्कालीन पर्यावरण और वन मंत्रालय की अधिसूचना सं. का.आ. 1174(अ), तारीख 18 जुलाई, 2007 में निम्नलिखित संशोधन और करती है, अर्थात् :—

उक्त अधिसूचना में सलन तालिका में,—

(क) क्रम संख्यांक 5, 9, 13 से 15, 20, 79, 80 और 83 से 85 तथा उससे संबंधित प्रविष्टियों के स्थान पर निम्नलिखित क्रमशः क्रम संख्यांक और प्रविष्टियां रखी जाएंगी, अर्थात् :—

(1)	(2)	(3)	(4)
*5	मैसर्स विमता लैब्स लिमिटेड 142 आई डी ए, फेस - 2, चेरालापलई, हैदराबाद, आंध्रप्रदेश-500051	(1) डा. सुब्बा रेड्डी मालामपति, (2) श्री एस वी श्रीनिवास रेड्डी, (3) श्री अरनूरी चन्ना रमेश कुमार	02.06.2016 से 01.06.2021
14	मैसर्स अश्वमेध इंजीनियर्स एंड कंसल्टेंट, सर्वे न. 102, प्लॉट सं. 26, बडाला पार्थाडी रोड, इंदिरा नगर, नासिक, महाराष्ट्र - 422009	(1) सुश्री अर्पणा सुनील फारंडे, (2) सुश्री शाह शुभांगी प्रकाश कांबले (3) श्री निनाद अरविंद साउदानकर	02.06.2016 से 01.06.2021
20	मैसर्स पोलूकोन लेबोरेटरीस प्रा. लि., 544, बेलिजयम टावरस, रिंग रोड, लिनियर बस स्टैंड के पीछे, सूरत, गुजरात-395006	(1) डा. अरुण कुमार बाजपेई (2) श्री देवांग मधुकर गांधी (3) श्री दर्शल मधुकर गांधी	02.06.2016 से 01.06.2021
84	मैसर्स डेटाक्स कोरपोरेशन प्रा. लि., 3 तल, के जी चैबरस, गुजरात समाचार प्रेस के पीछे, रिंग रोड, सूरत, गुजरात - 395002	(1) श्री अमीत बल कृष्णा रिनोस (2) श्री खासाकिया जितेंद्र कुमार दाहयाभाई (3) सुश्री दिव्यालक्ष्मी आर पटेल	02.06.2016 से 01.06.2021

ENVIRONMENTAL MONITORING REPORT

AMBIENT AIR QUALITY MONITORING

PERIOD: April - 2018 to Sep-2018

For

M/s. ADANI POWER (MUNDRA) LIMITED



At
Tunda & Siracha,
Tal. Mundra, Dist.: Kutch.
KUTCH, GUJARAT – 370 435

Prepared By:

UniStar Environment & Research Labs Pvt. Ltd.
White House, Nr. GIDC Office, Char Rasta,
Vapi-396 195, Gujarat, India

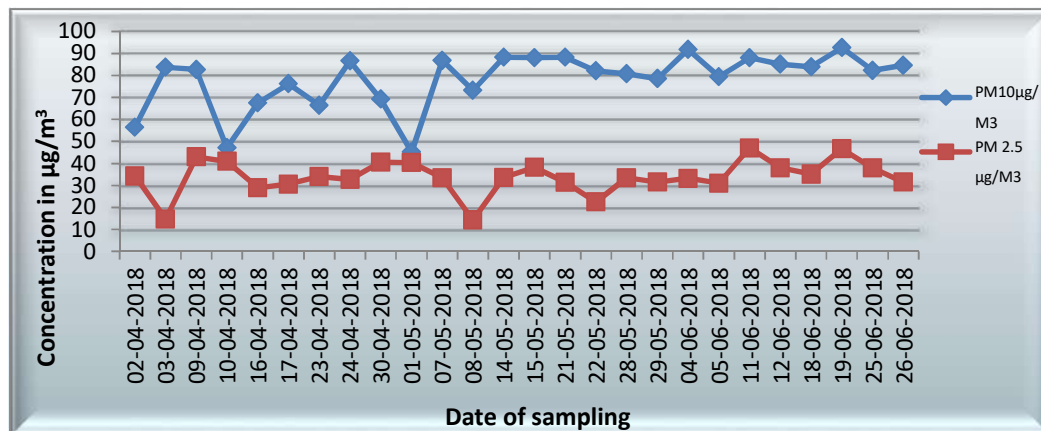
3.1.4 Location: Kandagara Village

The Sampling station was located in the core zone. The Station is located at about 3 km away in Northwest Direction from the Company premises. The Respirable Dust Sampler (PM₁₀) & PM_{2.5} Sampler were placed at a height of 2.5 m above the ground level. The observed levels of PM₁₀, PM_{2.5}, SO₂, NO₂ collected during the monitoring period (April 2018–June 2018) are as follows.

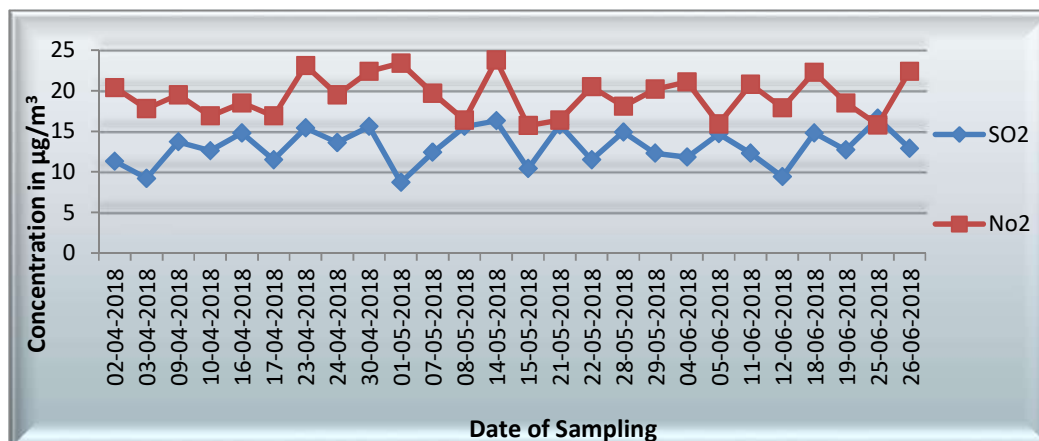
Observations	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
Maximum Value	91.7	42.6	16.6	23.8
Minimum Value	73.4	28.6	8.7	15.7
Average Value	84.5	36.1	13.1	19.4
Standard Deviation	4.8	3.9	2.3	2.5
Permissible Limits	100	60	80	80

Units: $\mu\text{g}/\text{m}^3$

Graph 5: Particulate Matter Level Kandagara Village



Graph 6 : SO₂ and NO₂ Level Kandagara Village



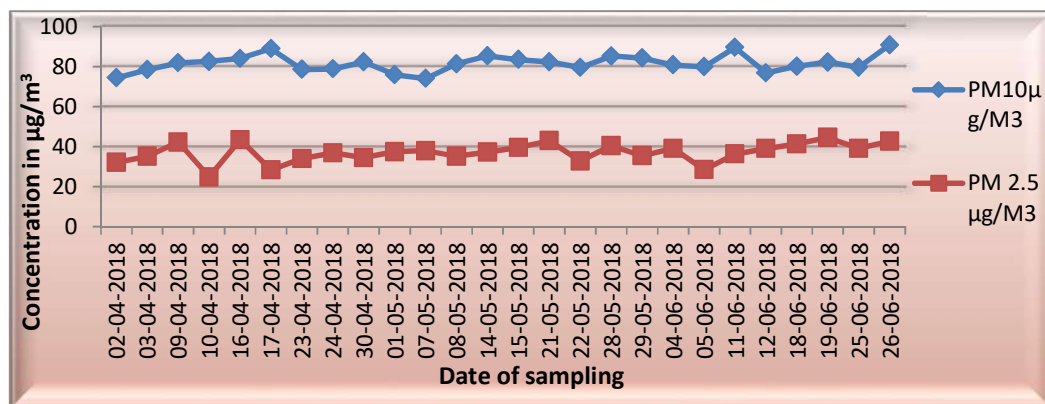
3.1.5 Location: Siracha Village

The Sampling station was located in the Siracha village. The Station is located at about 2.5 km away in Northwest Direction from the core zone area. The Respirable Dust Sampler & PM_{2.5} was placed at a height of 3.0 m above the ground level. The observed levels of PM₁₀, PM_{2.5}, SO₂, NO₂ collected during the monitoring period (April 2018–June 2018) are as follows.

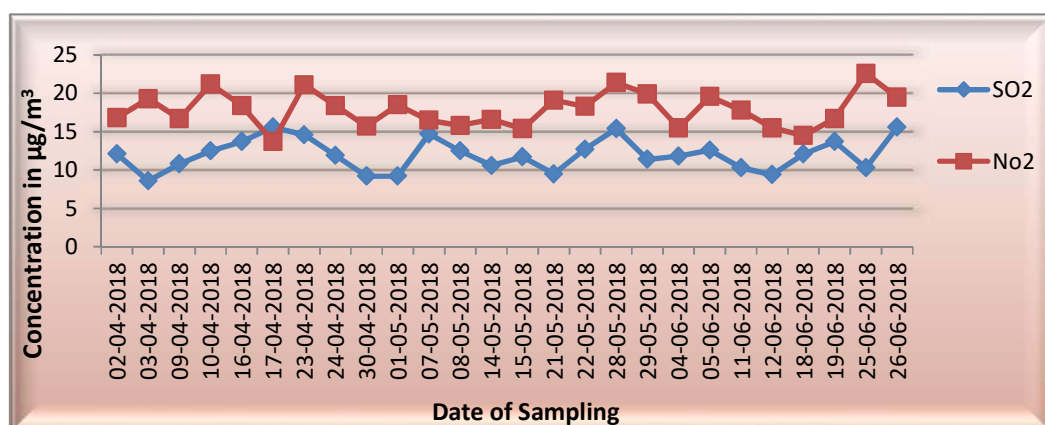
Observations	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
Maximum Value	90.8	44.6	15.6	22.6
Minimum Value	74	24.8	8.6	13.7
Average Value	81.6	36.9	12.0	17.9
Standard Deviation	4.3	4.9	2.1	2.3
Permissible Limits	100	60	80	80

Units: $\mu\text{g}/\text{m}^3$

Graph 7 : Particulate Matter Level Siracha Village



Graph 8 : SO₂ and NO₂ Level Siracha Village



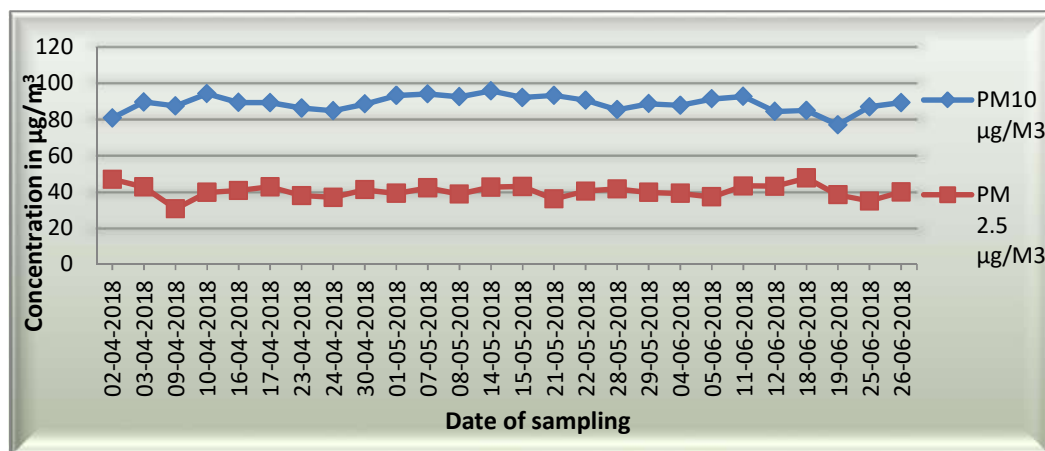
3.1.6 Location: Wandh Village

The Sampling station was located in the core zone in Wandh village. The Station is located at about 3.0 km away in Southwest Direction from the Company premises. The Respirable Dust Sampler Was placed at a height of 3.0 m above the ground level. The observed levels of PM₁₀, PM_{2.5}, SO₂, NO₂ collected during the monitoring period (April 2018–June 2018) are as follows.

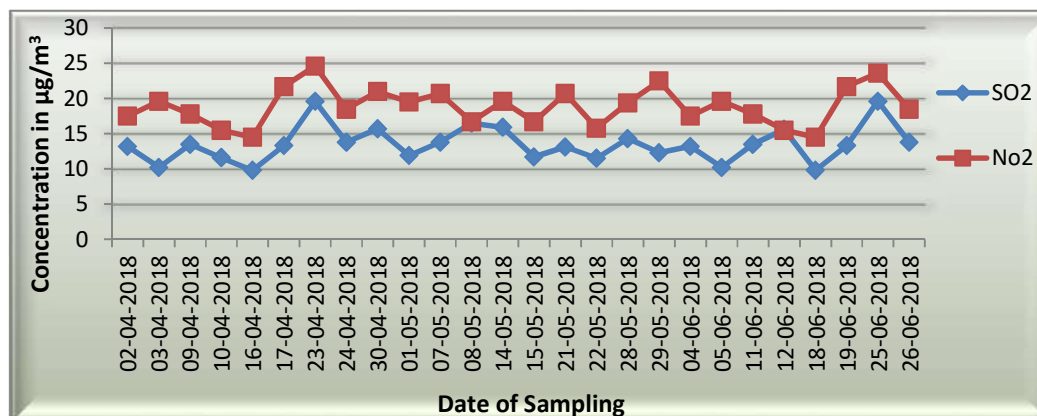
Observations	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
Maximum Value	95.8	47.6	19.6	24.6
Minimum Value	77	30.6	9.8	14.5
Average Value	88.9	40.2	13.5	18.9
Standard Deviation	4.4	3.6	2.6	2.7
Permissible Limits	100	60	80	80

Units: $\mu\text{g}/\text{m}^3$

Graph 9 : Particulate Matter Level Wandh Village



Graph 10 : SO₂ and NO₂ Level Wandh Village



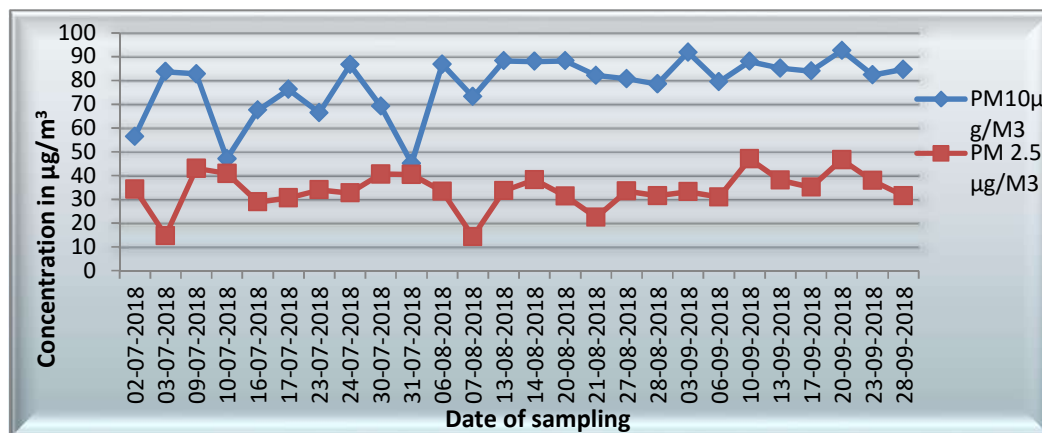
3.1.4 Location: Kandagara Village

The Sampling station was located in the core zone. The Station is located at about 3 km away in Northwest Direction from the Company premises. The Respirable Dust Sampler (PM₁₀) & PM_{2.5} Sampler were placed at a height of 1.5 m above the ground level. The observed levels of PM₁₀, PM_{2.5}, SO₂, NO₂ and O₃ collected during the monitoring period (July 2018–September 2018) are as follows.

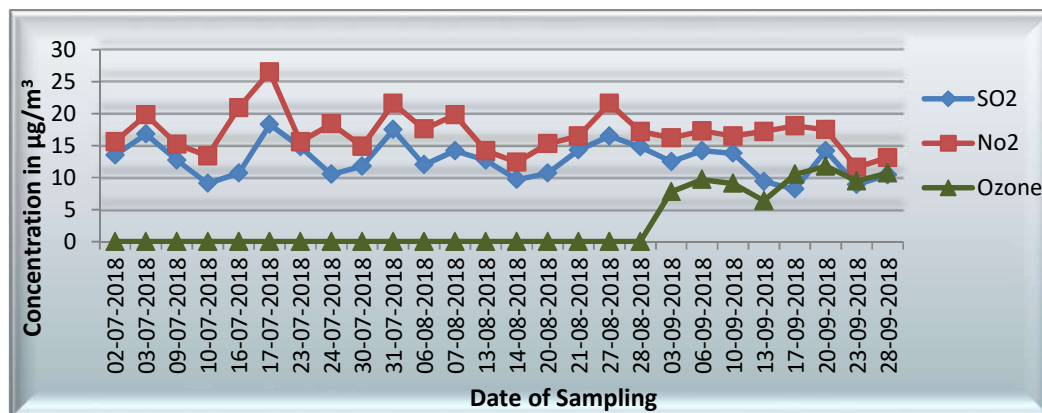
Observations	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	O ₃
Maximum Value	73.6	47.2	18.3	26.5	11.8
Minimum Value	49.7	23.9	8.2	11.6	<4
Average Value	63.7	36.7	12.8	17.1	2.9
Standard Deviation	6.7	5.8	2.8	3.3	4.5
Permissible Limits	100	60	80	80	100

Units: µg/m³

Graph 5: Particulate Matter Level Kandagara Village



Graph 6 : SO₂, NO₂ and O₃ Level Kandagara Village



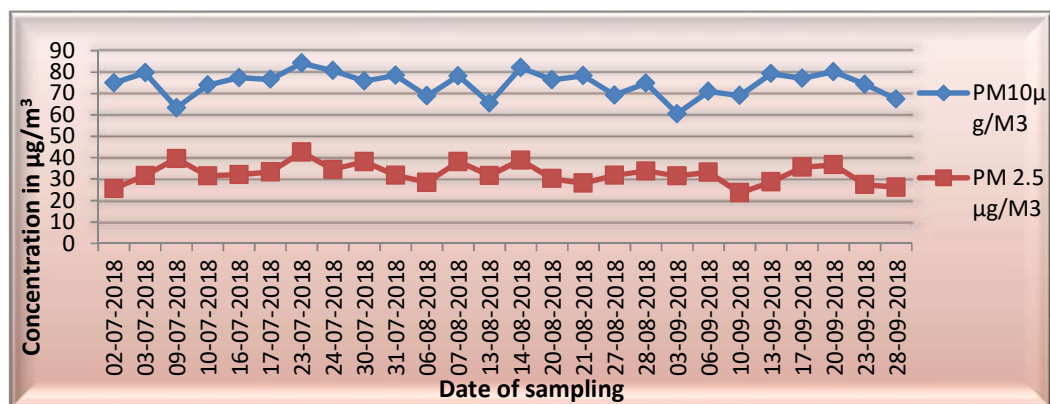
3.1.5 Location: Siracha Village

The Sampling station was located in the Siracha village. The Station is located at about 3.5 km away in Northwest Direction from the core zone area. The Respirable Dust Sampler & PM_{2.5} was placed at a height of 3.0 m above the ground level. The observed levels of PM₁₀, PM_{2.5}, SO₂, NO₂ and O₃ collected during the monitoring period (July 2018–September 2018) are as follows.

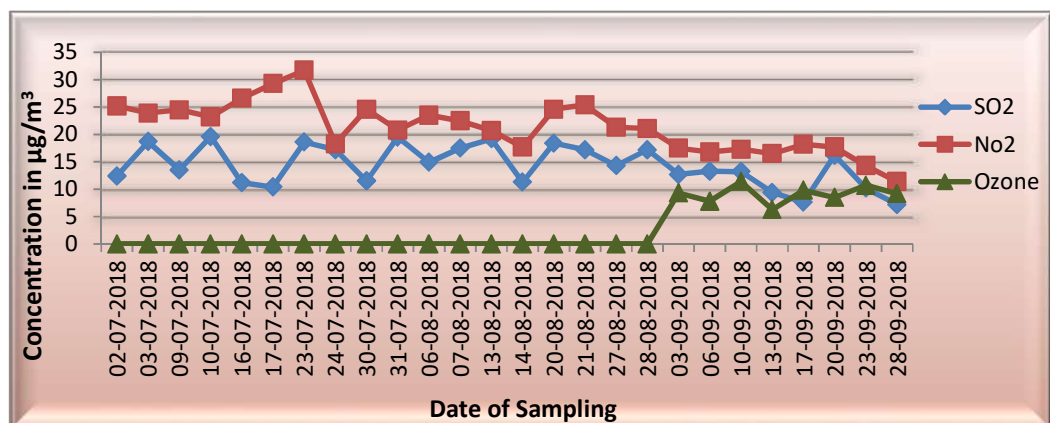
Observations	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	O ₃
Maximum Value	84.2	42.6	19.6	31.7	11.4
Minimum Value	60.5	23.6	7.2	11.4	<4
Average Value	74.5	32.5	14.3	21.3	2.8
Standard Deviation	6.0	4.7	3.8	4.7	4.3
Permissible Limits	100	60	80	80	100

Units: $\mu\text{g}/\text{m}^3$

Graph 7 : Particulate Matter Level Siracha Village



Graph 8 : SO₂, NO₂ and O₃ Level Siracha Village



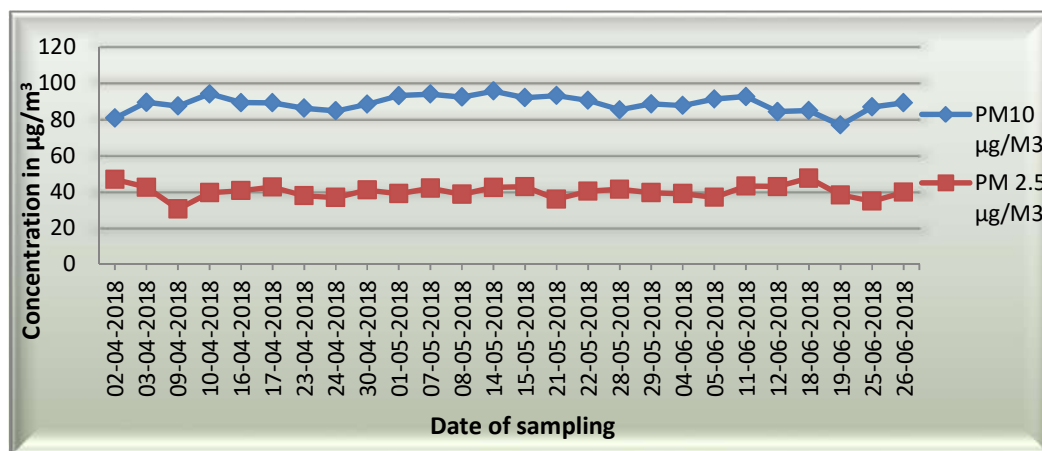
3.1.6 Location: Wandh Village

The Sampling station was located in the core zone in Wandh village. The Station is located at about 3.0 km away in Southwest Direction from the Company premises. The Respirable Dust Sampler Was placed at a height of 3.0 m above the ground level. The observed levels of PM₁₀, PM_{2.5}, SO₂, NO₂ and O₃ collected during the monitoring period (July 2018–September 2018) are as follows.

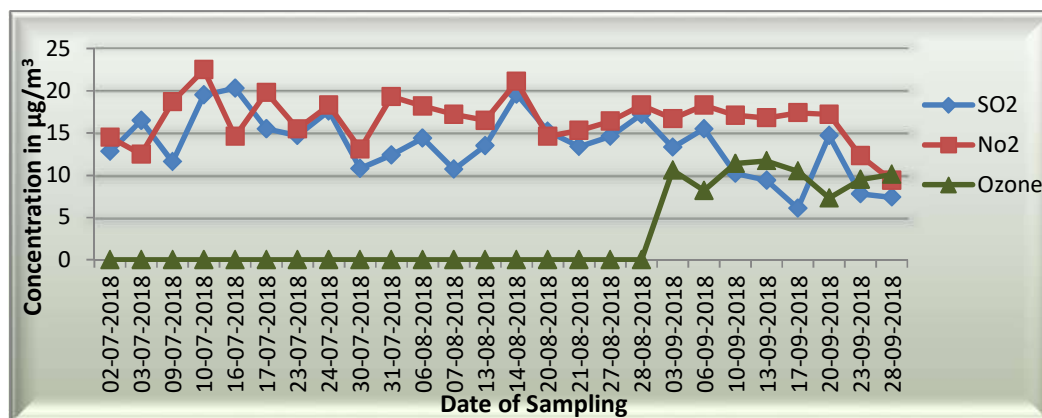
Observations	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	O ₃
Maximum Value	95.8	47.6	19.6	24.6	11.7
Minimum Value	77	30.6	9.8	14.5	<4
Average Value	88.9	40.2	13.5	18.9	3.0
Standard Deviation	4.4	3.6	2.6	2.7	4.7
Permissible Limits	100	60	80	80	100

Units: $\mu\text{g}/\text{m}^3$

Graph 9 : Particulate Matter Level Wandh Village



Graph 10 : SO₂, NO₂ and O₃ Level Wandh Village



Annexure – 7



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector 10-A, Gandhinagar 382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

BY R.P.A.D

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 6(2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 & as amended from time to time framed under the Environment (Protection) Act-1986.

And whereas Board has received consolidated consent application Inward **LD.NO. 115518** dated **28/11/2016** for the Consolidated Consent and Authorization (CC & A) of this Board and under the provisions/rules of the aforesaid acts. Consents & Authorization are hereby granted as under

CONSENTS AND AUTHORISATION:

(Under the provisions /rules of the aforesaid environmental acts)

To,

M/s Recycling Solution Pvt Ltd.

Plot no.-223, GIDC Estate, Panoli

Ankleshwar-394116

Dist-Ankleshwar

1. Consent Order No: AWH - 83687, Date of Issue-16/01/2017

The consents under Water Act-1974, Air Act-1981 and Hazardous and Other Wastes (M&TM) Rules - 2016 shall be valid up to **31/12/2021** for the following activities at Plot No. 223, GIDC Estate, Panoli, and Dist. Ankleshwar - 394116.

Sr No.	Facility	Capacity
1.	(Solid ,Semi Solid & Liquid) Waste Mix Pre-Processing Facility	240MT/Day

2. SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS

- 2.1 Applicant shall have to obtain trial/regular permission from SPCB / CPCB prior to send the prepare fuel to Cement industry.
- 2.2 **Pre-processing of hazardous and other wastes shall be carried out only after making the entry into the passbook issued by the SPCB.**
- 2.3 **Unit shall maintain and submit monthly records of waste received and pre processed to the Board.**
- 2.4 Applicant shall operate the processing facility in such a way so that stored volume of Hazardous waste/prepared fuel shall not exceed the storage time of 90 days from date of receipt and in case of exceeding the time limit, applicant shall stop immediately receiving hazardous waste from member units until prepared fuel from such stored hazardous waste is sent to cement industries for co-processing.
- 2.5 Applicant shall operate the processing facility in such a way so that stored volume of Hazardous waste/prepared fuel shall not exceed the storage capacity at any point of time, Once the stored volume reaches to the storage capacity, facility shall stop immediately receiving hazardous waste from member units.
- 2.6 Applicant shall have to strictly comply and adhered to the MOU signed and legal undertaking submitted to the board in letter and spirit.

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- 2.7 Applicant shall have to obtain the membership of Common Hazardous Waste TSDF and Incineration facility.
- 2.8 Applicant shall carry out only Collection, Storage and transportation of Hazardous waste from Member Units to their processing facility and processing (blending) for the preparation of fuel for co-processing (Co-Incineration).
- 2.9 Applicant shall not send prepared fuel for co-processing (Co-Incineration) without obtaining prior CCA - amendment of the Board.
- 2.10 Applicant shall have to comply with all the recommendations, suggestions and Environmental stipulations given by Hon. Supreme Court of INDIA, Ministry of Environment & Forests New Delhi, Central Pollution Control Board Delhi and Gujarat Pollution Control Board from time to time.
- 2.11 In case of deviation or alteration in the project including the implementing agency, a fresh reference shall be made to GPCB and MoEF, New Delhi for modification in the Clearance conditions or imposition of new one for ensuring environmental protection. The applicant shall be responsible for implementing the suggested safe guards.
- 2.12 Applicant shall follow the Guidelines of CPCB for labeling, transportation, storage and disposal of hazardous wastes in an environmental sound manner.
- 2.13 Applicant shall have to take all the precautions to control fugitive emission and Odour control from the different operations of your site as per the Guideline of CPCB.
- 2.14 The Project proponent shall make necessary arrangement for online monitoring of below shown parameters and display it online on XGN of Common Hazardous waste Incineration facility.
- 2.15 The project proponent shall use Hazardous waste tracking system of X tended Green Node (XGN) for on line real time data updation on Transportation of Hazardous waste by them. The compilation of real time data for preparing online manifest by the generator, Transporter and receptor shall have to be maintained on daily basis & submitted by the generator and receptor of the facility to the concerned Regional Office, and Head Office, GPCB.
- 2.16 The project proponent shall have to transport Hazardous waste through dedicated Vehicles with GPS (Global Positioning System) enabled system and in line with Hazardous and other wastes (Management and Transboundary Movement) Rules-2016.
- 2.17 Applicant shall carry out TCLP test in and around the processing facility and submit the report at regular interval.
- 2.18 Applicant shall furnish the copy of insurance policy as per Public Liability Insurance act 1991 to the Board.
- 2.19 Applicant shall prepare on site emergency plan and Disaster management plan as per the various guidelines published by competent authority and also conduct mock drill in co-ordination with local district co-ordination and Regional office GPCB.
- 2.20 Applicant shall submit the plan in accordance with the Chemical Accidents (Emergency Planning, preparedness and response) Rules, 1996 published by MOEF New Delhi.
- 2.21 It shall be the responsibility/duty of the applicant to take adequate steps while handling hazardous wastes to contain contaminants and prevent accidents and their consequences on human and environment, and prevent person working on the site with information, training and equipment necessary to ensure their safety.
- 2.22 Applicant shall be liable for all damage caused to the environment or third party due to improper handling and storage of the hazardous wastes or disposal of the hazardous wastes.
- 2.23 Applicant shall be liable to pay financial penalties as levied for any violation of the provisions under Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 2008 by the State Pollution Control Board with the prior approval of the Central Pollution Control Board.
- 2.24 In case of transportation of hazardous wastes through a State other than the State of origin or destination the occupier shall intimate the concerned State Pollution Control Boards before, he hands over the hazardous wastes to the transporter (if applicable).



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector 10-A, Gandhinagar 382 010

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Website : www.gpcb.gov.in

3. CONDITIONS UNDER WATER ACT:

- 3.1 The Discharge of industrial effluent from the common facilities and other related operations of the site shall be "ZERO" KLD.
- 3.2 The quantity of the domestic waste water (Sewage) shall not exceed 2.9KLD.
- 3.3 Sewage shall be disposed of through septic tank and soak pit system.

4. CONDITION UNDER AIR ACT:

- 4.1 There is no Flue Gas and process gas emission from the process and other ancillary operation.
- 4.2 The Stack of 14 meter height is attached to the AFRF Plant for air replenishment system.
- 4.3 The Applicant shall take all necessary measure to curb the foul odour and shall submit the monthly report of ODC - 50consumption.
- 4.4 There shall be wheel washing facility at the site to avoid dusting while transportation of hazardous waste.
- 4.5 Ambient air quality within the premises of the facility shall conform to the following Standards:-

PARAMETER	Concentration in Ambient Air		Method of Measurement
	Annual	24 hrs. Average	
Particulate matter-10 (PM 10)	60 µg/m ³	100 µg/m ³	Gravimetric, TOEM Beta attenuation
Particulate matter-2.5 (PM 2.5)	40 µg/m ³	60 µg/m ³	Gravimetric, TOEM Beta attenuation
Sulphur Dioxide(SO ₂)	50 µg/m ³	80 µg/m ³	Improved West and Gacke Ultraviolet fluorescene
Nitrogen Dioxide (NO ₂)	40 µg/m ³	80 µg/m ³	Modified Jacob & Hoechheiser (Na-Arsenite) Chemiluminescence
Benzene	5 µg/m ³	-----	Gas chromatography based continuous analyzer Adsorption and Desorption followed by GC analysis
Benzo (a) pyrene (BaP)- Particulate Phase only	01 ng/m ³	-----	Solvent extraction followed by HPLC/GC analysis
Arsenic(As)	06 ng/m ³	-----	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
Nickel (Ni)	20 ng/m ³	-----	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
Lead (Pb)	0.50µg/m ³	1.0 µg/m ³	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper ED-XRF using Teflon filter
Ammonia	100 µg/m ³	400 µg/m ³	Chemiluminescence Indophenol blue method

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Ozone	100 µg/m ³ 8 hours	180 µg/m ³ 1 hour	UV photometric Chemiluminescence Chemical Method
Carbon Monoxide (CO)	02 µg/m ³ 8 hours	04 µg/m ³ 1 hour	Non dispersive Infra Red (NDIR) spectroscopy

5. CONDITIONS UNDER HAZARDOUS WASTE MANAGEMENT RULES:

A. General condition:

1. Number of authorization: AWH - 83687 Date of issue: 16/01/2017
2. M/s. RECYCLING SOLUTION PRIVATE LIMITED is hereby granted an authorization to operate facility for following hazardous waste on the premises situated at Plot No. 223, GIDC Estate, Panoli, Disl. - Ankleshwar - 394116.

Sr. No.	Waste	Quantity	Schedule	Facility
1	Incinerable Hazardous waste(Solid/Liquid/ Semi Solid)	240 MTPA		Reception from member units through dedicated vehicle, storage, and blending within premises.
2	Distillation Residues from contaminated organic solvents	24 MT/Day	37.3	Collection, Storage, Transportation, disposal at CHWIF.
3.	Empty Drums/container /Barrels/Carboy contaminated with Hazardous chemicals/ waste	1080MTA	33.1	Receiving drums from member unit, Collection, Storage, Decontamination within premises and selling to authorized Recycler
4.	ETP Sludge from waste water treatment	60MTA	35.3	Collection ,Storage, Transportation, Disposal to TSDF

3. The authorization is granted to operate processing facility to prepare fuel for co-incineration (Co-processing) by reception of Hazardous waste from member units.
4. The authorization shall be force for a period up to Five years valid up to 31/12/2021
5. The applicant shall have to regularly monitor ground water, ambient air quality and shall submit reports to GPCB and CPCB regularly.
6. The applicant shall submit monthly report with details of Hazardous waste received, treatment given, stock lying and disposal of at landfill site.
7. The Authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
8. The Authorization or its renewal shall be produced for inspection at the request of an officer Authorized by the State Pollution Control Board.
9. The person Authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
10. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
11. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages,



GUJARAT POLLUTION CONTROL BOARD

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leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;

12. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
13. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
14. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
15. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
16. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
17. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
18. An application for the renewal of an authorisation shall be made as laid down under these Rules.
19. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
20. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B. Specific Conditions:

1. In case of renewal of authorisation, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.
2. The occupier of the facility shall comply Standard operating procedure/ guidelines published by MoEF&CC or CPCB or GPCB from time to time.
3. Unit shall comply provisions of E-Waste Management Rules-2016.
4. The disposal of Hazardous Waste shall be carried out as per the waste Management hierarchy.

6. GENERAL CONDITION:

- 6.1 Adequate plantation shall be carried out all along the periphery of the TSDF premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5meters width is developed.
- 6.2 The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.
- 6.3 Applicant shall have to comply with Risk Assessment and Disaster management Plan.

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- 6.4 Applicant shall have to carry out mock drill both on site and off site for all the possible eventualities at a regular interval of time. For any of the disastrous situation escape route shall have to be predefined properly marked and shall be brought to the knowledge of all the concerned.
- 6.5 Applicant shall have to comply with the Environmental Audit Scheme introduced by Hon'ble High Court and shall submit the Environment Audit Report every year in accordance with directions given in the High Court Order dated 16/09/1999 in Environmental Audit Scheme.
- 6.6 The concentration of Noise in ambient air within the premises of industrial unit shall not exceed following levels:
Between 6 A.M. and 10 P.M.: 75 dB (A)
Between 10 P.M. and 6 A.M.: 70 dB (A)
- 6.7 You shall comply with the manufacturing, Storage and Import of Hazardous Chemicals Rules-1989 framed under the Environment (Protection) Act-1986.
- 6.8 The owner/facility operator is fully responsible for compliance of all the directions issued by the Apex Court and High court from time to time.
- 6.9 Full support shall be extended to the officers of MoEF, CPCB, GPCB and all other relevant authorities by the project proponents during their inspection for monitoring purposes by furnishing full details and action plans including the action taken reports in respect of initiative measures and other environmental protection activities.
- 6.10 GPCB reserves the right to stipulate additional condition if found necessary. The company shall implement these conditions in a time bound manner.

FOR AND ON BEHALF OF
GUJARAT POLLUTION CONTROL BOARD


(K.C.MISTRY)

Dy. Chief Environment Scientist
Unit head, Hazardous waste cell

Issued to:

No. GPCB/HAZ-CCA-Ank-1375(5)/ID-13376/
M/s Recycling Solution Pvt Ltd.
Plot no.-223, GIDC Estate, Panoli
Ankleshwar-394116
Dist-Ankleshwar

Date:

Outward No: 406973, 14/03/2017

In exercise of the power conferred under section-25 of The Water (Prevention and Control of pollution) Act-1974, Section-21 of The Air (Prevention and Control of Pollution) Act-1981, and authorization under Rule 3(3)&6(2) of The Hazardous and other solid Wastes (Management & Transboundary Movement) Rules, 2016 and as amended from time to time, framed under The Environmental (Protection) Act-1986.

And, whereas Board has received consolidated consent and authorization application vide Inward ID-131457, Inward Date-18/12/2017, under the provisions/rules of the aforesaid acts/rules, Consents & Authorization are hereby granted as under:

CONSENTS & AUTHORISATION

(Under the provisions/rules of aforesaid environmental Acts/Rules)

To,
M/S Western India Petrochem Ind (16250),
Plot No -62, 63,
GIDC- Vartej,
Bhavnagar-364002
Tal: Bhavnagar, Dist: Bhavnagar.

- 1 Consolidated Consent and Authorization Order No: AWH- 27313, Date of Issue: 31/01/2018.**
- 2 The validity period of the order shall be up to 31/12/2022.**
- 3 The list of the products to be manufacture is as below:**

Sr. No.	PRODUCT	QUANTITY
1.	Re refined of used oil	2745 KL/Annum
2.	Recycling of waste oil	8325 KL/Annum

➤ **Specific Condition:**

Unit shall comply the Conditions given in the Minutes of Meeting under Rule-9 of HoWR- 2016 Dt :- 03/01/2018 regarding production capacity.

4 CONDITIONS UNDER THE WATER ACT:

- 4.1 The quantity of discharge of trade effluent from the factory shall be NIL.**
- 4.2 Generated wastewater will be reuse after adequate treatment hence there shall be “Zero Liquid Discharge” from the industry.**
- 4.3 The applicant shall provide adequate effluent treatment system in order to achieve the quality of the treated effluent as per GPCB norms mentioned below:-**

Parameter	Permissible Limit
pH	6.5-8.5
Temperature	40 °C
Color (Pt.Co Scale)	100 units
Suspended Solids	100 mg/l
Oil & Grease	10 mg/L
Ammonical Nitrogen	50 mg/L
BOD (5 days at 20 deg C)	30 mg/L
COD	100 mg/L
Chlorides	600 mg/L
Sulphates	1000 mg/L
TDS	2100 mg/L
Sulphides	2 mg/L
% Na	60%
Sodium Absorption Ratio	26

(All efforts to be made to remove Color and Unpleasant Odour as far as Practicable.)

4.4 The quantity of sewage effluent from the factory shall not exceed **0.16 kL/Day**.

4.5 Domestic effluent shall be disposed off through septic tank/soak pit system.

5 CONDITIONS UNDER THE AIR ACT:

5.1 The following shall use as fuel:

Sr No	Fuel	Quantity
1.	Light Diesel Oil/LC	30 Ltr/hr
2.	Wood	500 kg/day

5.2 The applicant shall install & operate air pollution control system in order to achieve norms prescribed below.

Sr No	Stack attached to	Common stack Height in Meters	APCM	Parameters	Permissible Limits
1.	Boiler	30	-	Particulate Matters SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
2.	Thermic Fluid Heater	30	-		
3.	Furnace	30	Scrubber		
4.	Incinerator				

5.3 There shall be no any process emission from the manufacturing process and other ancillary industrial operations.

5.4 Stack monitoring facilities as porthole, platform/ladder etc shall provide with stack/vents chimney in order to facilitate sampling of gases being emitted in to the atmosphere.

5.5 The concentration of the following substances in the ambient air within the premises of the industry and at a distance of 10 meters from the source (other than the stack/vent) with the height of more than 9 meter from the ground level) shall not exceed the following levels:

Sr. No.	Pollution Parameters	Time weighted Average	Concentration Ambient Air
1.	Sulphur dioxide (SO ₂), µg/M ³	Annual 24 Hours	50 80
2.	Nitrogen dioxide (NO ₂), µg/M ³	Annual 24 Hours	40 80
3.	Particulate Matter (Size less than 10µm)OR PM 10 µg/M ³	Annual 24 Hours	60 100
4.	Particulate Matter (Size less than 2.5µm) OR PM2.5 µg/M ³	Annual 24 Hours	40 60

5.6 The applicant shall provide proper ventilation and exhaust facilities to maintain healthy working atmosphere within the factory premises.

6 CONDITIONS UNDER HAZARDOUS WASTE:

6.1 Number of Authorization: **AWH- 27313**, Date of issue: **31/01/2018**

M/S Western India Petrochem Ind is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at **Plot No- 62, 63, GIDC- Vartej, Bhavnagar.**

Sr. No.	Waste	Category	Quantity after expansion	Facility
1.	Chemical sludge from waste water treatment	I-35.3	6 MT/yr	Collection, Storage, Transportation, Disposal
2.	Used or Spent Oil	I-5.1	3600 Kl/yr	Collection, Recycling, Reception, Storage, Transportation & Refining
3.	Waste or Residue containing Oil	I-5.2	11100.00 KL/yr	Collection, Reception, Storage, Transportation & Refining.
4.	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	I-33.1	90 MT/yr	Storage, Collection, Transportation, Decontamination & selling to Authorised Recycler.
5.	Any process or distillation residue	I-36.1	476 KL/yr	Collection, Storage, Transportation Incineration at Common Hazardous Waste Incineration Facility
6.	Filters & Filters Medium	I-35.1	3 Mt/Yr	Collection, Storage, Disposal, Incineration at Common Hazardous Waste Incineration Facility
7.	Spent clay Containing Oil	I-4.5	94 MT/yr	Collection, Storage, Transportation & Incineration at Common Hazardous Waste Incineration Facility
8.	Ash From incinerator and flue gas cleaning residue	I-37.2	NIL	Collection, Incineration, Storage, Treatment

6.2 The applicant shall provide temporary storage facilities for each type of Hazardous Waste as per Hazardous and other solid waste (Management & Transboundary Movement) Rules-2016 as amended from time to time.

7 GENERAL CONDITION:

7.1 Unit shall develop green belt within premise as per the CPCB guidelines. However, if the adequate land is not available within premises, the unit shall tie up with local agencies like gram panchayat, school, and social forestry office etc. for the plantation at suitable open land in nearby locality and submit an action plan of plantation for next three years to GPCB.

7.2 Plantations should be started along with constitution activity. For plantation within the premises, a spacing of at Least 4 m x 4 m shall be kept i.e. to say 250 plants per acre shall be plantation. For plantation outside the premises a spacing of 2mx 2m will be kept i.e. to say 1000 plants per acre.

7.3 Adequate plantation shall be carried out all along the periphery of premises in such a way that the density of plantation is at least 1000 tree per acre of land and a green belt of 10 meters width is developed.

7.4 In case of change of ownership/management the name and address of the new Owners/partners/directors/proprietor should immediately be intimated to the board.

7.5 The applicant shall however, not without the prior consent of the board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or swage waste from the proposed industrial plant. The applicant is required to make application to this board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986.

7.6 The overall noise level in and around the plant area shall be kept well within the standard by providing noise control measure including engineering control like acoustic insulation hood, silencers, enclosures etc on all source of noise generation. The ambient noise level shall conform to the standards prescribed under the Environment (Protection) Act-1986 & Rules.

7.7 The concentration of noise in ambient air within the premises of industrial unit shall not exceed following levels:

Between 6A.M. and 10P.M.: 75dB (A)
Between 10P.M. and 6A.M.: 70dB (A)

- 7.8 If it has established by any competent authority that the damage has caused due to their industrial activities to any Person or his property, in that case they are obliged to pay the compensation as determined by the competent authority.
- 7.9 Applicant shall have to comply with the guidelines/directive issued/being issued by MoEF & CC/CPCB/DoEF from Time to time.
- 7.10 Monitoring in respect to Air, Water, and Noise level shall carry out regularly and results shall submit to this Board.

**FOR AND BEHALF OF
GUJARAT POLLUTION CONTROL BOARD**



(F. M. Modi)
Regional Officer, Bhavnagar

No. GPCB/RO/BHV-548/ID-16250/

M/s Western India Petrochem Ind (16250),
Plot No - 62, 63,
GIDC- Vartej,
Bhavnagar-364002
Tal: Bhavnagar, Dist: Bhavnagar
Copy To:

- 1) Member Secretary
GPCB, Gandhinagar.....For your information & necessary action please.

Outward No:15602,02/04/2018



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector 10-A, Gandhinagar 382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

By, R.P.AD

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 5(4) of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules'2008 & as amended from time to time framed under the Environment (Protection) Act-1986.

And whereas Board has received consolidated consent application Inward I.D.NO. 56132 dated 20/04/2012 for the amendment in Consolidated Consent and Authorization (CC & A) of this Board and under the provisions/rules of the aforesaid acts. Consents & Authorization are hereby granted as under

CONSENTS AND AUTHORISATION:

(Under the provisions /rules of the aforesaid environmental acts)

To,

M/S SAURASHTRA ENVIRO PROJECTS PVT LTD,

PLOT NO/SURVEY NO. 415, 417 & 418,

VILLAGE: JUNA KATARIYA/LAKADIYA,

TALUKA: BHACHAU,

DIST: KUTCH-370 150

1. Consent Order No: AWH - 60703, Date of Issue 18/11/2013.

The consents shall be valid up to 05/11/2018 for use of outlet for the discharge of trade effluent and emission due to operation of industrial plant for following activities at PLOT NO/SURVEY NO. 415, 417 & 418, VILLAGE: JUNA KATARIYA/LAKADIYA, TALUKA: BHACHAU, DIST: KUTCH-370150.

S.R. NO.	PRODUCTS	Capacity
1.	Secured Landfill Site	3,95,000 MT (Cell no.1 - 1,20,000 MT(Capacity Exhausted and Closed) (Cell no.2 - 2,75,000 MT(Operational))
2.	Incineration Facility	7.50 Million Kcal/Hour
3.	Forced Evaporation System	500.00 KL
4.	Blender Operation	6.00 T/Hour

Clean Gujarat Green Gujarat Page 1 of 10

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केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
 (पर्यावरण एवं वन मंत्रालय, भारत सरकार)
 (MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

2014/AT-CP/RP/PCI-II/150

Date: 31.03.2015

To

M/s Sanghi Industries Ltd.,
 P.O. Sanghipuram - 370 511
 Taluka: Abadasa,
 Dist. Kutch, Gujarat.

Subject: -Permission for regular co-processing of oily rags/cotton waste (Adani Port & Special Economic Zone Ltd, Mundra, Kutch, Gujarat), in cement kiln of M/s Sanghi industries Ltd., Gujarat - Reg.

Ref: -Gujarat Pollution Control Board letter no. GPCB/HAZ-GEN-379(1)/220586 dated 01.08.2014

-Adani Ports & special Economic Zone Ltd. letter dated 03.02.2015

Sir,

In reference to above cited letter, permission is hereby accorded for co-processing of oily rags/cotton waste of Adani Port & Special Economic Zone Ltd., Mundra, Kutch, Gujarat, in Cement kiln of M/s Sanghi Industries Ltd., Sanghipuram, Kutch, Gujarat, under the Rule 11 of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, subject to compliance of various provisions of the Environment (Protection) Act, 1986 including the following:

1. The permission is valid only for co-processing of above specified waste. The waste characteristics should be similar to that for which trial run has been conducted by CPCB/SPCB. The details are enclosed in **Annexure**. Prior permission has to be obtained for co-processing of any other hazardous waste.
2. The cement plant shall obtain the authorization from the concerned State Pollution Control Boards as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for storage, handling, transportation and co-processing of hazardous waste.
3. For transportation of proposed hazardous wastes for co-processing in cement kiln, manifest system as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 and guidelines of CPCB shall be followed.
4. The generator of hazardous waste shall obtain authorization from the State Pollution Control Board as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for storage, handling, transportation and co-processing of hazardous waste in cement plant.

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032

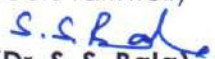
'Parivesh Bhawan', East Arjun Nagar, Delhi - 110032

दूरभाष / Tel. : 43102030, फैक्स / Fax : 22305793, 22307078, 22307079, 22301932, 22304948

ई-मेल / e-mail : cpcb@nic.in वेबसाइट / Website : www.cpcb.nic.in

5. The cement plant shall estimate the quantity of hazardous waste required to be co-processed. Cement industry shall provide adequate covered storage space for the hazardous waste in accordance with Hazardous Waste Rules and guidelines for storage of hazardous waste. The occupier shall also ensure that there is no leaching of any pollutant. The actual quantity of hazardous waste co-processed in each calendar year shall be reported to CPCB and SPCB.
6. The cement plant shall ensure the compliance of the conditions stipulated in the consents issued under the Air Act, 1981 and Water Act, 1974 during the co-processing of hazardous waste.
7. The emission standards for particulate matter prescribed for cement kiln by the concerned State Pollution Control Board shall be applicable during co-processing in cement kiln also. For other pollutants i.e.; CO, TOC, NOx, HCl, SO₂, HF, total dioxins and furans, Cd + Tl + their compounds, Hg and its compounds, Sb + As + Pb + Co + Cr + Cu + Mn + Ni + V + their compounds, the emission values during co-processing shall not exceed the base line emissions i.e. during pre co-processing phase of trial run. Continuous measurement of particulate matter emission shall be carried out at co-processing plant and the emission data shall be submitted to CPCB and the concerned SPCB/PCC. As per direction of CPCB monitoring of dioxins and furans including other parameters will be done by the cement plant.
8. The cement plant shall take the hazardous waste only from the authorized generator.
9. A log book of the waste co-processed shall be maintained including emission monitoring result during co-processing.
10. During co-processing of hazardous waste in cement kiln, the cement plant shall comply with all the requirements in accordance with the Public Liability Insurance Act, 1991 as amended.
11. Cement plant shall install continuous emission monitoring system with the SPCB monitoring the emission level.
12. Cement plant shall have to explore the possibilities for transportation of Hazardous Waste for the co-processing purpose through dedicated tankers with GPS enabled system in line with Hazardous Waste Rules – 2008.
13. The occupier/generator shall use Hazardous Waste tracking system of Xtended Green Node (XGN) for online real time data for preparing online manifest system for regular updation retrieval and maintain record thereof by generator as well as receptor. The compiled data shall be submitted at the end of the year after due verification by facility operator/receptor to the concerned GPCB, Regional Office & Head Office, Gandhinagar.
14. In case of any violation in the conditions stipulated, the permission can be withdrawn at any time.
15. CPCB reserves the right to review / impose additional conditions or revoke, change or alter any of the terms and conditions.

Yours faithfully


(Dr. S. S. Bala)

Director & I/c PCI-II Div

Encl.: As above

Characteristics of Oily rags /Cotton waste

The Characteristics of oily rags/cotton waste of M/s Adani Port & Special Economic Zone Ltd., Mundra, Kutch, is given below which is permitted for use @ 0.27 % (maximum) for co-processing in cement kiln.

Analysis of the Oily rags/cotton waste

PARAMETER	RESULT
Antimony (mg/kg)	<5
Arsenic (mg/kg)	<0.5
Cadmium (mg/kg)	<1
Chromium (mg/kg)	<1
Cobalt (mg/kg)	<1
Copper (mg/kg)	10.34
Lead (mg/kg)	<1
Manganese (mg/kg)	147.32
Nickel (mg/Kg)	7.37
Mercury (mg/Kg)	<0.5
Thallium (mg/kg)	<1
Vanadium (mg/kg)	2.17
Zinc (mg/kg)	405.59
TPH (%)	19.89
Tin ((mg/kg))	<5
Selenium ((mg/kg))	<5
Iron (%)	0.12
PCB ((mg/kg))	<0.1
PCP (mg/Kg)	<0.5
Calorific Value (Kcal/kg)	7960
Moisture (%)	1.8
Ash (%)	22.13
Volatile Matter (%)	74
Fixed Carbon (%)	0.2
Carbon (%)	47.37
Sulphur (%)	0.29
Nitrogen (%)	1.08
Oxygen (O ₂) (%)	24.02
Hydrogen (%)	5.11
TOC (%)	44.7
SVOC	ND(DL 0.1 mg/kg)
VOC	ND(DL 0.1 mg/kg)
PAH	ND(DL 0.1 mg/kg)



SAURASHTRA ENVIRO PROJECTS PVT. LTD.

Integrated Common Hazardous Waste Management Facility

-Site : R. S. No. 415,417 & 418, Village : Juna Katariya. B/h. Gail Pump Station,
Samakhiyali-Randhanpur Highway, Taluka : Bhachau, Dist - Kutch.

Ph.: +91-261-2351248, 2346181, 6452205 Fax : +91-261-2354068 E-mail : info@sepplindia.com Website : www.sepplindia.com



Certificate

Certificate No: CSA140

To Whomsoever it may concern

This is to certify that

ADANI PORTS & SPECIAL ECONOMIC ZONE LTD

PORT,
AT.MUNDRA

KUTCH

is a valid member of

SAURASHTRA ENVIRO PROJECTS PVT. LTD.

for Integrated Common Hazardous Waste Management Facility.

This membership is valid for a period of

5 Years

Date of issue : 06/02/2014

Date of expiration : 05/02/2019

Place of issue : Surat

For, Saurashtra Enviro Projects Pvt. Ltd.

Director/Authorised signatory

SUBJECT TO SURAT JURISDICTION

Certificate

Certificate No: CPAW1A0043

To Whomsoever it may concern

This is to certify that

ADANI PORTS AND SEZ LIMITED

3RD FLOOR ADANI HOUSE,
P.O.BOX NO.1,
MUNDRA,

is a valid member of

Recycling Solutions Private Limited

for Alternate Fuel Resource Facility.

This membership is valid for a period of

10 Years

Date of issue 14/04/2016

Date of expiration 13/04/2026

Place of issue : Panoli

For, Recycling Solutions Private Limited

Director/Authorised signatory

Waste Information :					
SrNo	Type Of Waste	Sign Qty (TPA)	SrNo	Type Of Waste	Sign Qty (TPA)
1	OILY SLUDGE	200.000	2	PIG WASTE	24.000
Total Sign Qty (TPA) :					224.000

SUBJECT TO BHARUCH JURISDICTION

Annexure – 8

HF - HSD TK-023 Lined up @ Date 04/06/2018 at 19:00 Hrs

RELIANCE INDUSTRIES LIMITED
CENTRAL LABORATORY
REFINERY AND PETROCHEMICAL DIVISION
Village: Meghpar/Padana
Taluka: Lalpur, Dist: Jamnagar
GUJARAT, INDIA. PIN: 361280

TEST REPORT

HFHSD

Tank No. : 651-023

Date of Sampling: 04 / 06 / 2018

Batch No. : RIL/HFHSD/003

Date of Report : 04 / 06 / 2018

Sr. No.	Property/Test	Method	Unit	Limits	Test Result
1	Acidity inorganic	IS 1448 [P:2]	mg KOH/gm	NIL	Nil
2	Total Acidity	IS 1448 [P:2]	mg KOH/gm	To report	0.08
3	Ash content	IS 1448 [P:4]	% mass	0.010 Max	0.006
4	Carbon residue (RB) on 10 % residue	IS 1448 [P:8]	% mass	0.30 Max	0.13
5	Cetane index	ASTM D4737	Nos	46.0 Min	51.9
6	Pour point	IS 1448 [P:10]	°C	15 Max	-6
7	Cu strip corrosion (3 hrs. at 100°C)	IS 1448 [P:15]	Rating	Class 1	1b
8	Distillation % recovered at 350°C	IS 1448 [P:18]	Vol. %	85.0 Min	87.7
9	Distillation % recovered at 370°C	IS 1448 [P:18]	Vol. %	95.0 Min	95.0
10	Flash point(PMCC)	IS 1448 [P:21]	°C	66.0 Min	70.0
11	Kinematic Viscosity at 40°C	IS 1448 [P:25]	cSt	2.000 – 5.000	3.973
12	Density at 15°C	IS 1448 [P:16]	Kg/m ³	820.0-860.0	854.7
13	Total Sulphur	ASTM D4294	mg/kg	2000 Max	385
14	Water content	IS 1448 [P:40]	Vol. %	0.05 Max	<0.05
15	Cold Filter Plugging Point (CFPP)	IS 1448 [P:110]	°C	18 Max	0
16	Total Contamination (PRTCLT Matter)	EN 12662	mg/kg	24 Max	18
17	Oxidation stability	ASTM D2274	mg/lit	1.5 Max	1.4
18	Lubricity, corrected WSD 1.4 at 60°C	ISO 12156-1	µm	460 Max	380
19	Sediment	IS 1448 [P:30]	% mass	0.05 Max	<0.01

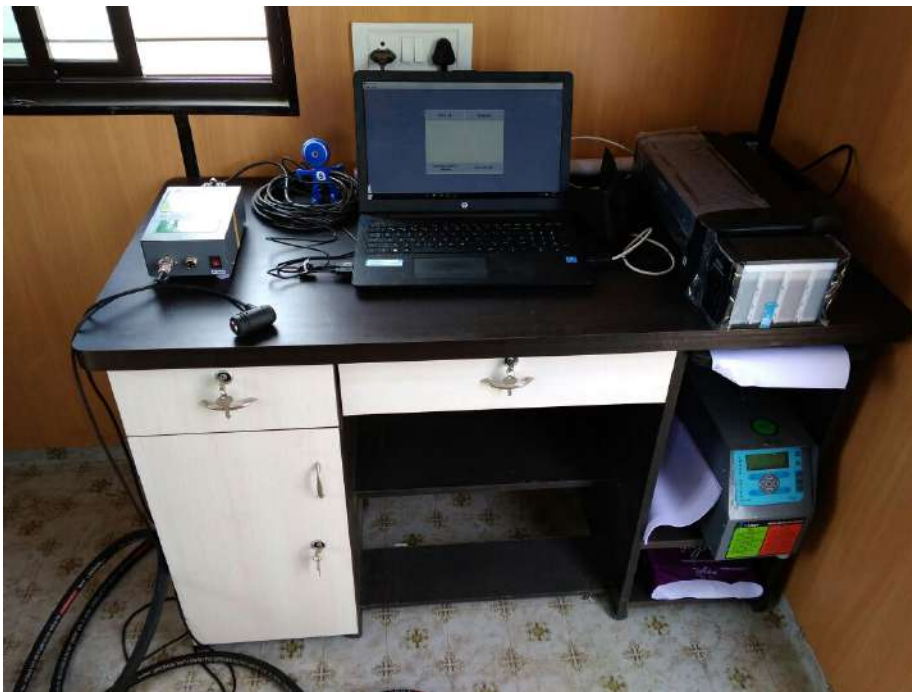
Authorized Signatory
For and on behalf of
RELIANCE INDUSTRIES LIMITED

MEHUL T PATEL
SHIFT INCHARGE

Note: 1. Results relate to the items tested only.
2. Test report shall not be reproduced except in full without written permission of the Laboratory.

Annexure – 9

PUC Monitoring Station at APSEZ





CARGO MOTORS

TATA MOTORS

adani

5

**VEHICLE FITNESS
CENTER**



Annexure – 10

ENVIRONMENTAL BEST PRACTICES BY UTILIZATION OF FLY ASH

Objective:

Utilization of fly ash (industrial by-product) as an eco-friendly material for manufacturing of paver blocks. This objective is achieved by reducing consumption of cement by 25 to 30%. Core benefits are: reduction in greenhouse gas emissions (which happen for cement production), eco-friendly disposal option for fly ash and of course, monetary benefits due to less raw material cost for manufacturing paver blocks.

An initiative is taken by APSEZ for utilization of fly ash is for manufacturing of paver blocks. These paver blocks are used for various infrastructure development purposes, wherever possible. This practice will be continued in future as well.

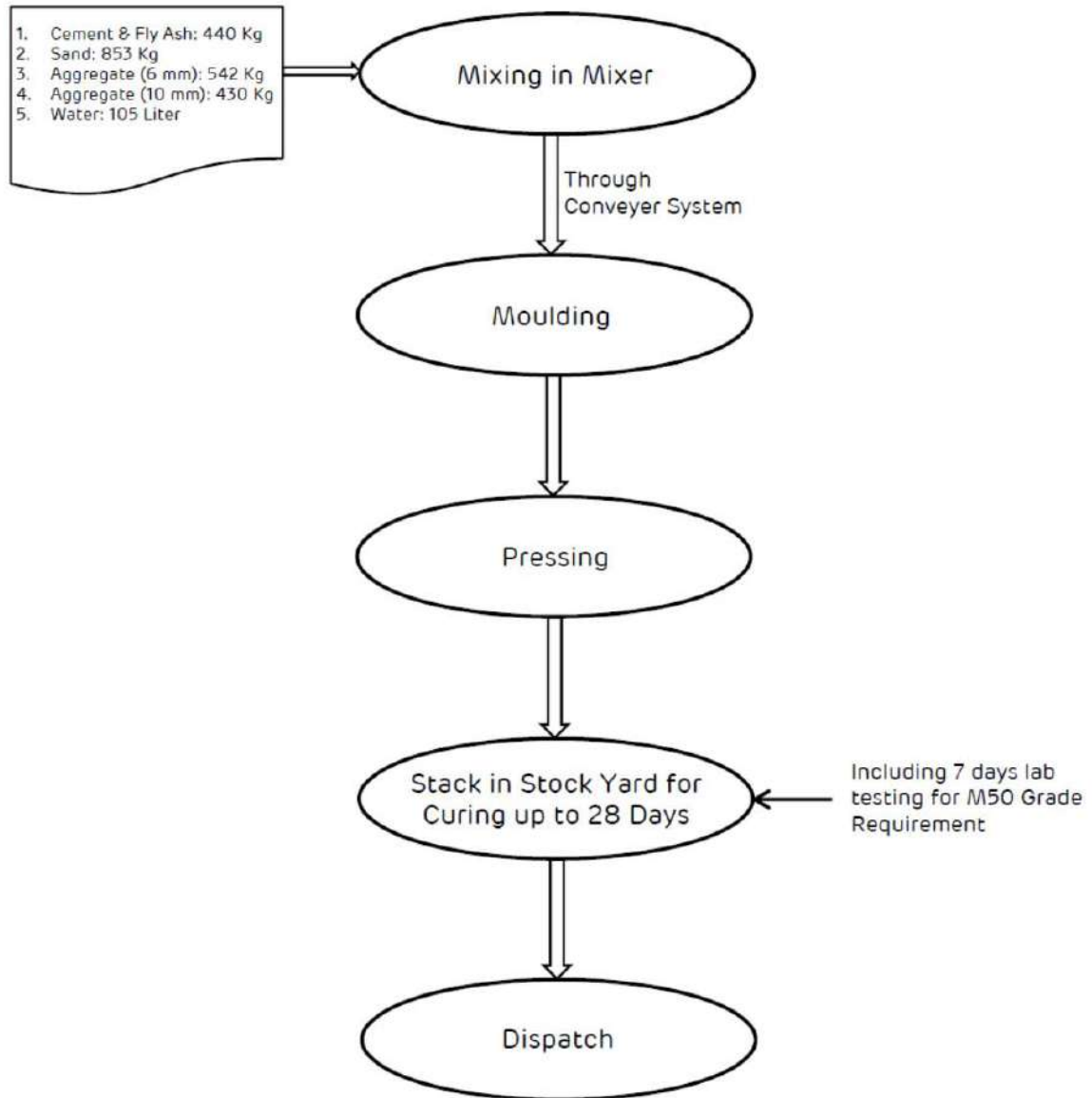
Photographs showing Fly Ash Paver Block Manufacturing Facility:





PROCESS FLOW DIAGRAM – PAVER BLOCK MANUFACTURING

1 CUM Batch – 400 Nos. of Paver Blocks per Batch



Input		
Cement & Fly Ash	440	Kg
Sand	853	Kg
Aggregate 6 mm	542	Kg
Aggregate 10 mm	430	Kg
Water	105	L
TOTAL	2370	Kg

Output		
Paver Blocks	400	Nos.
Weight of One Block	5.9	Kg

Annexure – 11

SEZ Enviro-connect

Information of Industry

Name of Industry	:	Ahlstrom Fibercomposites india private ltd
Address	:	Plot No 7, survey no 141, MITAP
Type of Industry	:	Textile
Current Consent to Operate. & its validity	:	AWH-61788 & 27/01/2019
Contact Person & Communication detail (Env. field)	:	Dipsinh Manek Dip.manek@ahlstrom-munksjo.com Mobile: 8980037433

Waste Management

Information requisite	Yes/No
Have you availed Waste Management SOP developed by APSEZ?	: No
Do you segregate your solid waste as Dry Waste & Wet Waste?	: Yes
Do you segregate hazardous waste & Non- Hazardous Waste separately?	: Yes
Is your industry a member of authorized Hazardous Waste Management Facility?	: Yes
Do you have system for Hazardous waste disposal	: Yes
Do you have system for Dry and Wet Waste disposal?	: Yes
Do you require support for Waste management?	: Yes

Wastewater management

Information requisite	Yes/No
Please share wastewater generation quantity from your industry	: 8 KL/day (sewage waste water generation)
Have you installed STP/ETP for wastewater treatment?	: Yes
If no, where do you discharge your waste water? If yes, where do you utilize treated water?	: Garden
Do you use Kamavida/brouzer for wastewater collection and discharge?	: No
Are you a member of CETP?	: Yes
Do you require support for wastewater management?	: No

Water conservation and Ozone Friendly Gas

Information requisite	Yes/No
Have you taken any measures for water conservation?	: No
Have you installed any pressure/flow reducer in your taps as water conservation initiative? Like Fixtures for toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	: No
Do you need support for Water conservation?	: Yes
Are you using Ozone friendly gas in HVAC system or domestic A.Cs?	Yes

Energy conservation

Information requisite	Yes/No
Have you followed Energy Conservation Building Code during construction of your facility?	: No
Have you used insulation material at roof to reduce energy consumption of air condition?	: Yes
Have you adopted measures like installation of LED/ CFLs/TFLs for the lighting the areas ?	: Yes
Have you installed motion censored lights for energy conservation?	: Yes
Does your building has glass structure more than 40% of total construction?	: No
Do you perform energy audit?	: No
Do you need support for energy conservation?	: Yes

Annexure – 12

Cost of Environmental Protection Measures

Sr. No.	Activity	Cost incurred (INR in Lacs)			Budgeted Cost (INR in Lacs)
		2016 - 17	2017 - 18	2018 - 19 (Till Sep'18)	2018 - 19
1.	Environmental Study / Audit and Consultancy	36.78	9.0	4.6	30.5
2.	Legal & Statutory Expenses	4.76	5.07	0.12	5.7
3.	Environmental Monitoring Services	27.95	27.02	12.5	36.0
4.	Hazardous / Non Hazardous Waste Management & Disposal	12.52	65.62	50.5	84.8
5.	Environment Days Celebration	6.71	2.85	2.21	10.0
6.	Treatment and Disposal of Bio-Medical Waste	1.27	1.13	0.75	1.56
7.	Mangrove Plantation, Monitoring & Conservation	72.38	60.0	Nil	50.0
8.	Other Horticulture Expenses	555.00	547.0	299.0	636.0
9.	O&M of Sewage Treatment Plant and Effluent Treatment Plant (including STP, ETP of Port & SEZ & Common Effluent Treatment Plant)	61.50	70.02	81.67	108.05
10.	Expenditure of Environment Dept. (Apart from above head)	131.83	102.15	64.49	117.29
Total		910.70	889.86	515.84	1079.9

Further year wise breakup of the cost is mentioned in table below:

Year	Environment	Horticulture	Total
2014-15	462.87	380.27	843.14
2015-16	346.23	434.72	780.95
2016-17	355.70	555.00	910.7
2017-18	342.86	547.00	889.86
2018-19 (Till Sep'18)	216.84	299.00	515.84
Total	1724.5	2215.99	3940.49

Annexure – 13



Adani Foundation

Adani House, Port Road, Mundra – Kutch 370 421
[info@adanifoundation.com] [www.adanifoundation.com]

	CORE AREA	
1	COMMUNITY HEALTH	3
	<ul style="list-style-type: none"> Mobile Van and Rural Clinics Health Card to Senior Citizen Suposhan Support for Medical Aid to Deprived Health Camps Gujrat Adani Institute of Medical Sciences Shakti Raksha Project Arogya Saptah 	
2A	SUSTAINABLE LIVLIHOOD DEVELOPMENT - FISHERFOLK	17
	<ul style="list-style-type: none"> Vidya Deep Yojana Vidya Sahay Yojana – Scholarship Support Machhimar Arogya Yojana Machhimar Kaushalya Vardhan Yojana Machhimar Shudhh Jal Yojana Machhimar Ajivika Uparjan Yojana Solar Tent Dryer Event (Cricket league) Drive for Technology to use in agriculture Food for cattle –Towards Sustainability Women Empowerment Projects Project Savavlanban 	

2

	CORE AREA	
3	EDUCATION	30
	<ul style="list-style-type: none"> Project UTHHAN Praveshotsav and other events Mothers meet UDAAN Adani Vidya Mandir Bhadreswar 	
4	ENVIRONMENT SUSTAINABILITY	39
	<ul style="list-style-type: none"> Sujam Suflam Jal Abhiyan Participatory Ground Water Management Project "Sanrakshan" Project "Drip Irrigation" 	
4	RURAL INFRASTRUCTURE DEVELOPMENT	46
5	ADANI SKILL DEVELOPMENT CENTRE	48
6	SWACHHAGRAHA	52
7	EVENTS	53
8	CASE LEADS	57
9	BENEFICIARIES DETAIL	61
10	BUDGET UTILIZATION	64
9	MEDIA NOTE	64

Mobile Dispensaries & Rural Clinics

The population of Mundra block is spread over various villages. Due to inadequate transportation facilities, the villagers have to face many hardships even for reaching to the doctor in case of common diseases. The medical expenses and zero earning per day add surplus to their hardships.

To help them in the above mentioned health related problems, the service of mobile medical van has been started by the Adani Foundation in Mundra block. In big villages, rural dispensaries have been started considering their population and area.

The Adani Foundation runs two mobile health care units. Main objective of Mobile Van is to reduce travel time, hardships and expenses. Two mobile health care units cover 34 villages and 05 fishermen settlements. Around 113 types of general and life saving medicines are available in these units. It has turned out to be a boon for women and children as the service is availed at their door - step.

MHCU Month wise Data-2018/19		
1	April	1508
2	May	1397
3	June	1236
4	July	1523
5	Aug.	1512
6	Sep.	1796
	Total	8972



4

Adani Foundation has pioneered several innovations under its Health Programme in Mundra, Kutch. These innovations comprise of new methodologies to address the different aspects of health needs among the most marginalized communities, especially Malnourished Children, Women and Senior Citizens.

Committed to "Health for All" the Foundation runs Mobile Health Care Units, Rural Clinics, Special Innovative Projects i.e. Health Card to Senior Citizens, Fighting to Malnourishment Suposhan" Project, Dialysis Project and Variety of Health Related Camps.

3



Community Health

Village wise OPD Data-2018/19

1	Tunda wandh	699
2	Siracha	1928
3	Navinal	896
4	Luni	3283
5	Vadala	503
6	Bhadreswar	716
7	Labour colony	53
8	Tunda	394
9	Tuna anjar	135
10	Wandi	780
11	Rampar	292
12	Tragadi Bandar	428
13	Rangoli	378
	Total	10485

The Adani Foundation operates Rural Dispensaries in 08 villages of Mundra block, 03 villages of Anjar block and 01 village of Mandvi block along with one at Rangoli gate. At these dispensaries, health services are provided free of charge for two hours daily by a doctor and a volunteer.



5

123



Details of transaction		
1	April	828
2	May	840
3	June	809
4	July	962
5	Aug.	836
6	Sep.	862
Total		5137

Health Cards to Senior Citizens

The major junctures of human life are - childhood, adulthood and old age. The first phase is well looked after by the parents and second phase is of self-reliant but the last phase is a dependent one. The needs of old people are less looked after. When people become old, they start living a life of aloofness and solitude. Therefore, the Adani Foundation has started the Adani Health Programme for the aged to look after their health. To address the health care issues related to ageing, AF launched a 3 year long pilot project – 'Adani Vadii Swasthya Yojna' on 20th February 2011 at Mundra and further extended the same for the next three years i.e. up to 2017. Under this Programme, the individuals aged 60 years and above are benefitted. Health Cards are issued to them with the purpose of providing adequate and timely treatment. The families consisting of aged ones with a yearly income of Rs. 2 lacs or more get a Blue Card. The Blue Card holders can avail diagnosis facility and treatment at a subsidized rate in the Adani hospitals, Mundra. The families with a yearly income of less than Rs. 2 lacs are issued a Green Card. Green Card holder aged people get treatment for illness in Adani hospitals, Mundra with an aid up to the limit of Rs. 50,000/- within a period of 3 years.

During the six months 2018-19, total 5137 transactions were done by 8518 card holders of 66 villages of Mundra Taluka. They received cash less medical services under this project. In Green Card category, 6139 aged people got treated for various illness & diseases at Adani hospitals, Mundra with an aid up to a limit of Rs. 50,000/- within the period of 3 years. The 763 Blue Card Holders can avail diagnosis facility and treatment at a subsidized rate in the Adani hospitals, Mundra. Scheme is continue since seven years. The third phase of this scheme was started in last year. The limit for the beneficiary was set to 30000/- within a period of 3 years. the senior citizens get emergency medical care at Adani Hospital, Mundra and they are referred to GAIMS

6

Implementation Strategy

Base line data was provided for Mundra Taluka in initial phase of Project.

Total Number Anganwadi in the selected area

- ❖ Information on Sub-centers/ Primary Health Centers/ Community Health centers/ Referral Hospitals
- ❖ •Availability of Healthy worker- male & female both, ANMs, LHV's, Doctors, specialists such as Gynecologist, Pediatricians, Pharmacist, Dietician Lab. Technician, Nursing Staff etc. at above centers (Number & names with contact details)
- ❖ Selected areas' Birth rate, Death rate, Infant Mortality Rate, Mother Mortality Rate, Sex ratio, Child Sex ratio against district, state and national average
- ❖ Total number of beneficiaries and against that enrolled beneficiaries at Anganwadi/ICDS: 0-6 year children, Adolescent girls, pregnant women and lactating mothers
- ❖ Identified malnourished and anemia children/ adolescent girls and women (numbers & name as well as current level of malnutrition & anemia with dates- Base Line data)
- ❖ Current Inputs provided through the Government machineries
- ❖ Other services available through CBOs, NGOs etc.- Details of inputs and contact details of those organizations
- ❖ Understanding & Listing of area specific cultural and behavioral barriers

Role and Responsibility of Adani Foundation

Health Checkup camp

- Awareness activity : Focused Group Discussion
- Capacity Building of Sangini
- Home visit
- Health related sessions
- Financial support provide for better treatment
- Doctor services provided (Pediatric, Gynec, Dietitian)
- AF provides Nutritional Food Support



8

Suposhan

Malnutrition amongst Children, Adolescent girls and Women in India is an alarming phenomenon. (In India: 48 % or 54 million children under-five years were stunted. India accounted for 33 %of stunted children in the world. As per Global Nutrition Report released recently, Children below five years- 38.7 % Stunted and 15.1%are wasted. 69.5% children6-59 months old, 55.8% adolescent girls aged 15-18 years, 55.3% women aged 15-49 years have Anemia. Moreover anemia prevalence in pregnant women is as high as 58.7%) Curbing Malnutrition was part of Millennium Development Goals and again focused through second and third Sustainable Development Goals on Zero hunger and Good Health & Wellbeing respectively.

During this half year, anthropometry study done for 2020 children. Total 6 children became free of malnutrition due to efforts under "Suposhan" Project. Additionally, 6288 FGD were conducted during this year.

Total 8770 hemoglobin screenings of RPA woman and adolescent girls was carried out. Which helps in controlling anemia in women and indirectly malnutrition.



7

Suposhan Saptah



The birth of a healthy newborn child is determined by the health of the mother. Mother's health, in turn, has its basis on her health status during adolescence. The health of a society, as a whole, thus depends on the health of the women, in all stages of their lives. Adani Foundation acknowledges this field of health and aims to address women's health, through their entire life cycle. These efforts have culminated in Project Suposhan, Adani Foundation Health initiative. Project aims to generate awareness in communities and facilitate the strengthening of the health systems and healthcare delivery platforms, with a specific focus on the mother and child. Project focuses on increasing health literacy in communities for mothers, child and adolescent health services through trained community health workers (Sangini), creating effective referral linkages to higher services. SuPoshan "Food Guidance Week" celebration systematized in all 61 villages in Mundra Taluka from 13th Nov – 20th Nov. Suposhan Food competition was organized in coordination with ICDS block and Supervisors, Sarpanch, ASHA workers and women leaders. The reason behind celebrating "Suposhan Food Guidance Week" is to make people aware about the importance of nourishment so that everyone is able to live healthy life. It involves community by · The importance of Nutrition and Balanced Diet · Importance of locally available food. · Preparing own variety nutritious dishes, · Folk songs on nutritious, · Slogans with actions, · Spreading awareness on different schemes, · Vaccination · Kitchen garden and · Exclusive Beast Feeding

9

Support for Medical Aid to Deprived

The scope of the organization extended up to providing best health care facilities to the needy, poor, challenged and not so well-to-do families for the treatment of illness and diseases. It is not always possible to predict the medical expenses. Moreover, those who are economically not so sound, become indebted for lifetime in case of certain illnesses. Therefore, Adani Foundation provides primary health care and financial assistance for ailments such as kidney related problems, paralysis, cancerous and tumor surgeries, neurological and heart problems, blood pressure, diabetes etc.

During six months, month we organized two medical examination camps in which Medical Support was given to 485 People from Mundra, Bhadreswar, Zarpara, Shekhadia Nana Mota Kapaya, Bhujpur, Vadala, Wandl and other villages under our work area.



10



Medical Supports		
1	April	103
2	May	65
3	June	54
4	July	65
5	Aug.	97
6	Sep.	101
Total		485

Gujarat Adani Institute of Medical Sciences

Gujarat Adani Institute of Medical Science is the first Medical College of Kutch region. It started in partnership with Adani Group and Government of Gujarat in the year 2009. This college was affiliated by the Medical council of India in the year 2014 for the MBBS with 150 seats per year. Gujarat Adani Institute of Medical Science is affiliate with the first digital university "Krantiguru Shyamji Krishna Verma Kutch University". In GAIMS, currently 750 students are studying, The GAIMS Medical College is situated in heart of Bhuj city on a large plot of 27 acres.

A teaching hospital (G K General Hospital) with 700 beds is established with GAIMS in which patients of Kutch are getting subsidized medical facilities. The Hostel facility is also available for the students in the campus only. The accommodation facility is given to the staff of GAIMS.



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Health Camps

Various health camps are organized at regular intervals to meet the specific requirements of the community. Screening camps are organized regularly as per the route map planned in coordination with Adani Hospitals. During the year 2018-19, 11 Specialty camps were organized and 1636 Patients were benefitted.



General Health Camp & Surgical Camp					
Sr.no.	Month	Date	Place	Villages Name	Total Patients
1	Apr-18	28.04 to 29.04.2018	Jat Malek Muslim & Maheshari Samuha Sadi At Mundra	Mundra	178
2	Jun-18	26.06.2018	Malaria Camp Sukhpar Mundra	Mundra	36
3	Jul-18	17.07.2018	Karva E Mustfa Hospital Health Camp	Mundra	50
4	Jul-18	21.07.2018	Mahesh Nagar Primary School	Mundra	190
5	Jul-18	30.06.2018	Muslim Jamat Samuh Sadi, Luni	Luni	40
6	Aug-18	11.08.2018	Rotary Hall, Mundra Surgical Mega Camp	Mundra	185
7	Aug-18	28.08.2018	Mithani Labour colony Health camp	Dhrub	80
8	Sep-18	22.09.2018	Shri Swaminarayan Mandir-Baroi Boad	Baroi	191
9	Sep-18	24.09.2018	Mithani Labour colony Health camp	Dhrub	105
10	Sep-18	26.09.2018	Jain Derasar, Oshwal Seri	Mundra	56
11	Oct-18	02.10.2018	Bava Gor Pir Uras Luni	Luni	525
Total...					1636

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Urinary stone – Dialysis Treatment

Drinking water of Mundra contains high Fluoride (amount of salt). Hence, the proportion of patients with urinary stone and kidney failure is more. A project for patients who need dialysis is thus initiated so that the poor patients can receive the treatment at subsidized rates in the nearby, well-equipped hospitals. The main objective of providing dialysis treatment is to help the extremely needy patients to live a healthy life. Total 3 Patients were being supported for regular dialysis (twice in a week) by participatory approach.



Mpw's Village Meeting			
Sr. No	Month	C.M. Meeting	MPW Meeting
1	April	0	0
2	May	7	18
3	June	6	13
4	July	5	12
5	August	4	16
6	September	3	11
Total		25	70

Death Body Van Data		
Sr. No	Month	No. of Death Body
1	April	34
2	May	55
3	June	42
4	July	46
5	August	30
6	September	50
Total		257

Adani Foundation Team has initiated coordination with GKGH hospital since 2014 and established a reception area for the smooth patient coordination and preparation for the social networking program.

Adani Foundation organized General Health Camps and Specialty Camps in various interior villages of Kutch in coordination with GKGH which created magical impact and benefitted 3335 patients. Adani Foundation Bhuj Health team has also organized more than ten awareness camps and village level meetings at 293 villages of Kutch regarding services of GKGH.

Dead body medical van – Dignity to death is one of the noble initiatives taken up by the Adani Foundation. If any death occurs in GKGH, dead bodies are shifted to the native village of the concerned in the Kutch District free of cost. Total 257 dead bodies privileged till now to different locations in Kutch.

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Shakti Raksha – Preventive and Curative Breast and Survival Cancer

Adani hospital Mundra, Taluka health office, Indian Red Cross society and Adani foundation has initiated Shakti Raksha Project in which special gynecologist camp for detection of breast n survival camp and thalassemia testing for pregnant women at CHC MUNDRA. In first phase we have covered all PHC and susceptible cases has been referred for pep test and mammogram at GKGH, Bhuj.

In this project we have covered 103 villages of Mundra and Bhuj this year with curative measures. Most medicine will be provided by Taluka health office.

We have covered total 569 patients and 106 cases were referred to GKGH Bhuj. In which one case diagnosed with breast lump (not malignant).



Brest & Cervical Cancer screening and Thalassemia testing camp						
Sr. No	Date	Place	Gynec	Thalassemia testing	Total Beneficiary	Referred Patients
1	09-06-2018	Mundra CHC	62	34	118	25
2	12-06-2018	Zarpara PHC	26	6	32	5
3	14-06-2018	Moti Bhujpur PHC	54	15	86	18
4	21-06-2018	Mota Kandagara PHC	42	11	53	10
5	25-06-2018	Nani Tumbadi PHC	55	14	69	12
6	28-06-2018	Vanki PHC	48	7	55	8
7	03-07-2018	Ratadiya PHC	79	11	90	17
8	05-07-2018	Bhadreshwar PHC	52	14	66	11
Total			418	112	569	106

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Arogya Saptah (8th – 14th August 2018)

Adani foundation, Adani Hospital and GAIMS have Jointly Celebrated "Arogya Saptah" 8th to 14th August-2018 in Respect of 72th Independence of our country. Celebration included multi specialty camps, Workshops, truckers health check up, surgical camp on foundation day and adolescent fair at different part of district. Collector, DDO, Minister, MLA and other dignitaries from NGOs had remained present. Objective of the program was to avail health benefits at GKGH and also at Adani Hospital Mundra and Approximately 4500 people will be direct beneficiaries of the program.

Day	Date	Event Name	Detail about Event	Beneficiaries
1	8 th August 2018	Specialty Mega Camp	Specialist doctors i.e. Gynaecologist, Paediatrician, Nephrologists and general surgeon from GKGH had extended their services.	218
2	9 th August 2018	Cervical/Brest cancer Screening & Awareness camp	In SOS gada village screening camp organize with preventive awareness session. 17 women critically suggested for further check up at GKGH.	113
3	10 th August 2018	Haemoglobin Testing camp	Haemoglobin testing and awareness for de warming of 917 adolescent girls at Rapar village.	917
4	11 th August 2018	1. Surgical Mega Camp, Mundra 2. Roa accident Awareness programme, Nakhtrana	1. Specialist Doctors from Adani hospital Mundra and Medical officers of Adani foundation had extended their services.	223
			2. On occasion of Adani foundation ay session for Road accident awareness and safety including primary health check up camp was organized at Nakhtrana.	172
5	12 th August 2018	Class-4 Staff CPR and first aid training	Class-4 Staff CPR and first aid training was organize in campus of G K general hospital for capacity building of staff and their motivation.	181
6	13 th August 2018	Adolescent fair, Gadhashisha	Adolescent fair was organized at Gadhashisha high school in which lady gynaecologist had cleared doubts of the adolescent girls and given information.	170
7	14 th August 2018	Asha Worker workshop	Capacity building workshop was organized for ASHA workers of urban and rural bhuj.	150

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Glimpse of Arogya Saptah



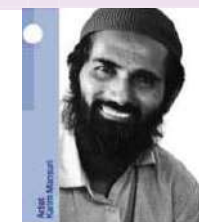
16

Empowering lives and broadening their scope for economic opportunities, Adani Foundation's initiatives introduced under 'Sustainable Livelihood Development Program', have been founded on community based approaches.

Under this programme, we associated our self with Fisherman community, Farmers and Women groups.

Adani Ports and SEZ Limited started its business in 1996. When APSEZ started port operations, fishing community was found deprived and in a perpetual state of poverty. They were living a scattered life. Unavailability of roads, pure drinking water and unhygienic living conditions had made their lives tragic and miserable. We thought we could not achieve our goal of development unless and until we support them to uplift the living standard of the people of this community. After inception of CSR arm of the Adani Group – Adani Foundation in 1996, a strategy based on priorities and continuous and comprehensive socio-economic development and reforms for the fishing community was planned.

With the Foremost objective to improve living standards of Fisher-folk, Adani Foundation protracted support in Education, Health, Sustainable Livelihood and Rural Infrastructure Development Sectors.



Namda
is a sheep wool felting craft which is one of the oldest crafts of India.

There is only one artisan currently practicing this craft in Mundra, Gujarat.



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SUSTAINABLE LIVELIHOOD DEVELOPMENT PROGRAM

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Education

Education is one of the most important stepping stones to bring about a unified development in any community. The Adani Foundation, through its rigorous surveys and assessments, could understand that it was education which should be taken up to bring about a real change in the status of the fisher folk communities. Following are some of the major education initiatives taken up by the foundation:



Balvadi		
Sr.	Village & Bandar	Children
1	Juna bandar	55
2	Luni	25
3	Zapara-Chhacha	28
4	Bavadi bandar	30
Total		138

Vidya Deep Yojana

A great amount of efforts were put in developing school preparedness programmes by empowering 'Balwadis' at Fisher folk settlements. Under the Machhimar Vidya Deep Yojana, Adani Foundation constructed four Balwadis for kids between the age group of 2.5 years to 5 years at different settlements. The programme is inclusive of nutritious food, awareness on health, hygiene, cleanliness, discipline, regularity and development of basic age appropriate concepts.

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Vidya Sahay Yojana- Scholarship Support

Participatory scholarship support for fisherman children studying in SMJ high school Luni and to above 12th standards Students . 80 percentage support given by Adani foundation and 20 percentage support by parents! They willingly agree for the same.. We also encourage them for technical education for good job opportunities.. Total 66 students has been benefitted, among them 51 students from 9 to 12 standard and 15 students from BA,B.ed,LLB. On this occasion more than 300 students & parents were present.



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Machhimar Arogya Yojana

A healthy person can work well and earn for his family. Hence it is necessary to provide medical facilities to cure and prevent them and to provide them the treatment of diseases prevailing among the people specially women; children and elderly person, especially due the lack of balanced nutritious diet.

Mobile Health Care Unit - the mobile dispensaries have been run by the Adani Foundation since 2009. The mobile dispensary is available not only in the Vasahats/Settlements but also near the coast where the fishermen, can avail the facilities as and when needed. **Total average 247 fishermen were benefitted by Mobile Dispensary during last half year.**

1. Apart from this, a number of subsidiary initiatives such as health awareness camps, medical check-ups, etc. are conducted by the Adani Foundation at frequent intervals, to provide the fisher folk community with the much needed and required information and assistance.
2. Medical Financial Support -Adani Foundation has extended financial assistance to more than **73 financially challenged patients** from the Fisher Folk Community in case of medical urgency during this year.
3. Health Card for Senior Citizen Project – This is one of the major and prominent and the most innovative project of the Adani Foundation. Under this scheme Health Cards were given to the to Senior Poverty Stricken Citizens to provide them financial support to combat with their health related needs. The project for the senior citizens is popularly known as **Vadil Swasthya Yojana** and till date **165 senior citizens** from fisher folk community are enrolled in the scheme. Most of them keep these cards in their wallets with other important documents and cards.



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Machhimar Shudhh Jal Yojana

This scheme of providing potable water has helped in reducing the drudgery of women and contributed largely towards general wellbeing. Water tank platforms have been constructed and tanks have been set up in order to provide clean potable drinking water to the community. Daily **1,18,000** Litres of water is supplied at different settlements.

Potable Water		
Sr.	Vasahat	Total liters/ day
1	Juna Bandar	30,000
2	Luni Bandar	15,000
3	Randh Bandar	25,000
4	Bavadi Bandar	15,000
5	Veera Bandar	10,000
6	Ghavarvaro Bandar	8,000
7	Kutdi Bandar	15,000
Total		1,18,000

Linkages with various Departments

Coordination with coast guard, Marine Department and Fisher folk for smooth Port operations Regular Meetings with fisherman for various innovate technology for fishing

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Machhimar Kaushalya Vardhan Yojana

Apart from providing formal education, special programmes were conducted to enhance youth employability. Based on the need of assessment, a number of trades were introduced by the Adani Skill Development Centre in Mundra, where the fisher folk youth could join and get vocational training for a number of technical and non-technical skills. 20 women took part in Dori work training at Navinal and 19 women took part in Dori work at Juna Bandar.

Sr. No	Course Name	No of Students
1	Dori work, Juna Bandar	19
2	Dori work, Navinal	20
3	Checker Cum RTG Crane Operator	03
Total		42

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Machhimar Ajivika Uparjan Yojana

The 'Ajivika Uparjan Yojana' was implemented to promote and support alternative livelihoods among the Fisher folk communities during the non-fishing months. The Foundation introduced 'Mangrove Nursery Development and Plantation' in the area as an alternate income generating activity for the people of the region. Both men and women received training on Mangrove plantation, moss cleaning, etc. as per requirements. The Foundation provided them with employment equivalent to 5201 man-days. In addition to this, employment worth of 34727 man-days has been provided till date. The Foundation has also supported Pagadiya fishermen as painting laborers by providing them with employment and job in various field.



Innovative Project : Solar Tent Dryer

CIFT (Central Institute of Fisheries Technology) has been conducting a prototype study on Solar tent dryers with improved technology at their head quarters in Kochi, which is expected to be completed within a span of another three months. They may be able to upscale or replicate the technology once the study is completed. In all probability, they will provide the designs for the solar tent dryer for drying Bombay duck and / or Acetous Indicus with financial estimate by the first quarter of next year. Meanwhile the team from the HQ and Veravel centre can visit Mundra region for initial site visit and feasibility studies. CIFT requested our team to visit CIFT HQ at Kochi during coming months to assess the prototype model and understand more on other CIFT developed hybrid dryers



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Fisherman Cricket league

Adani foundation, MUNDRA organized Cricket Tournament " Sixth Adani Premiere League among Fishermen community to promote healthy Sportsmanship and harmonically transparent relationship. The Tournament had been played for 13 days at SVC (Shanti Vihar Cricket Ground) by 6 matches per Days with full of Audience, Total 65 Teams with 780 Fishermen youth were participated with 550Rs. Contribution per teams from Mundra, Anjar and Mandvi Block. The Final Match was played on 9.07.2018 and Pir Saheb (Religious Mentor), Rakshit sir (Executive Director- APSEZ), Dr.A.k Vatsani (Deputy collector ,Bhuj) Mr. Mahesh Dafda (Assistant Director of Fisheries, Bhuj), Mrs. Pankti Shah(Unit CSR Head) ,AF staff and Fishermen Leaders remained present. The Final Match was so interesting and Salaya team becomes winner over Luni Team and more than 1200 Audience from various villages were present. The winner's trophy, Runners-up Trophy, Man of the Series, Man of the Match, Best Baller, and Best Bats-Man Trophy has been given to the Respective Teams and players. The 25000Rs, 15000Rs, 2100Rs, 1100Rs, and 500Rs, 500Rs Prize given to the above Respective Teams and Players from the Teams contribution.



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Adani Foundation puts efforts in Mundra block for consistent betterment in livelihood sector. The organization has carried out remarkable activities in the agricultural and animal husbandry sectors.



Drive for Technology to use in agriculture

- We have initiated Programme for Awareness of Farmers in collaboration with KVK. The outreach is approximate 67 farmers of 5 villages
- The purpose of this project is to initiate village wise integrated agricultural & allied development for sustaining agriculture and socio economic situation of farming community of Mundra block.

Agriculture Programme		
Sr.no	Village Name	Member
1	Zarapara	21
2	Zarapara	15
3	Siracha-	16
4	Navinal	15
		67

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Fodder Cultivation

The organization provides fodder during the time of scarcity and the last 3 months of summer every year. During this period, fodder is regularly sent to every village with the help of the local people. This has given stability to the families who earn their livelihood through animal husbandry.

In order to meet the demand of fodder, the Adani Foundation purchases it from the regional farmers. This gives them fair rates in return.

This year we have given 1,08,000 man fodder worth Rs. 205.00 Lacs approximately.

We have to find out Sustainable Solution for Fodder Cultivation

Fodder is the main issue as rainfall is very less in this region. Adani Foundation is working intensively in direction of fodder sustainability in three ways

1. Individual Fodder Cultivation Support – NB21 demonstration – Supported 140 Farmers of Dhrub and Zarpara
2. Drip Irrigation support Linkages with Fodder – First phase we will support drip irrigation in 22 villages and this linkages will help to convince them for NB21 at least in one acre land
3. Village Level Fodder Cultivation : Participatory Approach
 - (a) Winter crop Cultivation – Support to Individual (Supported for seeds of Makai for 200 acre land)
 - (b) Winter Crop Cultivation – Support to Group of Farmers



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Project Swavlamban

Project Swavlamban Launched with blessings of differently abled people of MUNDRA TALUKA.

Our objective is

- To increase awareness about Government schemes for Divyang people, widows and senior citizens and coordinate them with Social Welfare Department, GoG
- After getting income generation equipment support - Proper training provision to make them self-reliant in true sense!! In launching ceremony, Dy. Collector Kutch, Jilla social welfare officer and TDO MUNDRA will remain present.
- Adani Foundation is playing the role of facilitator in case of tie up with Government Scheme for Widows, Senior Citizens and Handicapped people. The identity cards are issued for the handicapped in coordination with Bhuj Samaj Suraksha Khata which is beneficial for them to get specific kit for their disability type.
- The financial benefit of the senior citizen Yojana is Rs. 500 per month and the widow scheme is of Rs. 1000 per month. Jilla Samaj Suraksha Officer and team remain present every time.



No	Type	Beneficiaries	Financial benefit
1	Disabled	409	10,00,000
2	Widow	92	3,25,000
3	Senior Citizen	32	1,75,000
	Total	533	15,00,000.00



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Women Empowerment Projects Step towards socio economic development

No	Village	Group	Members	Saving Amount	Work
1	Mota Kandagra	Jay Mekran	18	100	Stitching
2	Mota Kandagra	Jay Momai	10	200	Stitching
3	Navinal	Vishwas	14	100	Stitching/Dori
4	Navinal	Chamunda	10	100	Phynayle making
5	Baroi	Adhar	12	100	Perishable items
6	Sadai	Vishwasi	16	100	Dhadki, Frames
7	Shekhadia	Sonal	12	200	Washing Powder
8	Mota Kapaya	Tejasvi	10	100	Eco friendly bags
9	Mundra	Meghdhanushya	18	100	Mud work
			112	1100	

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Women Empowerment Projects

- In Kutch, the situation of women is miserable. Women are totally dependent on male members of family for their needs. Consumption of liquor is one of the main culprits in Kutch. Due to this evil prevalent among men many women are suffering.
- Considering this situation, We have started our training program with two major women's group of Villages near Adani Power and Adani Ports. Both the groups of women (120 women in total) successfully completed their training for preparing washing powder, phenyl, liquid for cleaning utensils and hand wash etc.
- We have selected 12 women groups having 10 members each, as per their ability for different work i.e. accounting, banking, leadership, marketing, administration etc.
- As a further step to bring sustainability, we thought to start a shop "Saheli Mahila Gruh Udyog" at Shantivan Colony after discussion with the Administrative Department of Ports and Power regarding the supply of the material, rate etc.



Women Empowerment Projects

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Glimpse of Women Empowerment Projects

SHG Meetings in various Villages regarding record check, Loan, Interest detail also collect information for their hidden Skill.



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Education Initiative of Adani Foundation signed an MoU with Maa Foundation, Vapi and adopted four major projects from them. The list of the projects upto October 2014-15 was:

Project Utthan: Adani foundation has been promoting various educational and human initiatives in education, community health, sustainable livelihood and Rural Infrastructure.

In this context with an aim to enhance the quality of primary education in Kutch district, Adani foundation adopted 17 government school located at Mundra Taluka under the project 'UTTHAN' a drive of quality education.

Adani foundation is expected to achieve visible and measurable important in scholastic area.

Adani foundation will be focusing to bring the positive evidences of change in the personal, behavior and academic development of the students.



Education

Beneficiaries of "Utthan"

- Children of class 1st to 7th standard in 17 government schools will be the beneficiaries of this project

Implementation Partners of "Utthan"

DPEO/TEPO/BRC will provide guidance for implementation and experts will visit on an interval of 6 months to evaluate the project.

Proposed Activities "Utthan"

- Training of Government School Staff
- Reading, Writing and Maths improvement as per Gunotsav Data
- Development of Teaching Learning Material
- English Language
- Role Model Activity in assembly
- Reading Corner Activities
- Monitoring and Evaluation

Implementation Strategy "Utthan"

At school level Utthan Preraks will be the core implementer of the project. Project Officer visits regularly to selected schools to guide and manage the project and report to management. TPEO/BRC will involve in the project evaluation process at the interval of twice in year.

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Objective of "Utthan"

- To improve basic knowledge of Math, Languages, English and Computer among students of Govt. schools.
- To Raise Minimum Level of weak students

Output of "Utthan"

- Increase enrolment ratio of students to 100%
- 100% regular present of students in school
- To improve their arithmetic, reading capacity in various languages, English etc.
- To increase confidence level of students
- Involvement of local community, village leaders and local Govt. through various activities

Outcome of "Utthan"

- Students of class 1th to 7th in government schools will take interest in activity based learning.
- Community and teachers will be positive and satisfy from this education project.
- Increase interest of students in school, they develop knowledge and understand importance of library.
- Education friendly environment development in school as well as in community.

Expected impact of "Utthan"

- Vachan, Ganani and Lekhani strengthening in Priya students
- Education department of Gujarat government will include activity based learning in regular course curriculum.

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Kick Start of "Utthan"

- Participated in 'Teachers day' celebration. Introduced six female members of Utthan sahayak to schools. As a symbol of respect towards teachers Utthan team had given sapling to all 17 schools.
- Out of 1178 students 944 students participated in test, 413 students got more than 50% marks whereas 516 students got less than 50% marks means 44% students got more than 50% marks whereas 55% students got less than 50% marks. 232 students out of 1178 students were absent during the test. Base line for English subject is zero since first time we introduced English as a subject in 1 to 4 grade. Within 15 days of intervention we got remarkable and measurable change in English alphabet writing capability of Utthan students (Grade 1 to 4).
- Navneet English books distribution ' and Plastic free Environment awareness event organized in all 17 schools of Utthan by Adani foundation. One more positive step take by Adani foundation in order to achieve quality education for all " UTTHAN " Schools.



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Project "Utthan" : Guru Vandana

- Guruvandana' Program celebration of teacher's day was organized on 12 November 2018 attended by government dignitaries and our beloved teachers of 106 government primary schools with great enthusiasm.
- Objective of the program conveyed to audience by CSR head Ms.Panktiben.
- It has been said that a healthy mind resides in a healthy body which is why a health checkup is scheduled for all the gurudev (teachers) which included BMI, BP, RBS, HB and vision test done by adani hospital Mundra.
- Followed by a motivational speech by Dr.Darshana Dhodakiya who is the Director of Bhasha Bhavan of Gujarati Subject, Throwing light on the principle that teachers cannot be trained in to be coming a teacher, but they are teachers because they actually are born teachers.
- Soft skill training by Ms.Ridhi Trivedi who is a highly skilled trainer from ASDC and would explain us the importance and need of soft skills. A highly thought provoking drama by students of 'Shekhadiya' school. And last but not the least short and sweet session taken by Mr. Jatin Upadhyay. Throughout the program anchoring is done by Ms. Darshana Shastri and Ms. Jgruti Joshi.
- Achieved one of the objective teachers' capacity building



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Celebration of World Environment Day at High School, Moti Khakhar

- Plantation of 1111 trees in Moti Khakhar high school ground in coordination with forest department : Moti Khakhar is a Village in Mundra Taluka .It is located 19 KM from Mundra. School is constructed in year 2008 and it is with large ground. Principal requested Adani Foundation to support for tree plantation in area. As per size of ground we can plant more than 1000 plants. In addition, Soil condition is also appropriate. Adani Foundation contacted Forest Department for Tree plantation before monsoon and Forest Department supported for 4000 plants. After getting support from Forest Department – Adani Foundation supported for Drip and Fence for protection of plantation. On 5th June 2018, Adani Foundation Mundra planted 1111 trees at Moti Khakhar. Function was scheduled by Gram Panchayat. Mr. Vyas (District Education Officer), Mr. Anjan (DCF, Mundra), Mr. Saxena (COO, APSEZ), AF Team, students of the school and Village leaders remained present



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Shala Praveshotsav

To motivate children for schooling by providing the welcome kit / education kit and to create conducive children for "joyful learning" Environment for children for Learning during shala Praveshotsav Govt. has wide spread network of 111 Govt. primary schools in total 62 villages of Mundra Taluka, 3 villages of in Anjar taluka and two villages of Mandvi Taluka every year on an average 2550 to 2700 children gets enrolled in 1st std in Taluka For 2018-2019 total 2300 children got enrolled & Adani foundation provided the "Enrollment kit" to all new enrollee in Taluka



Mother's Meet

To motivate parents to maintain regularity of school, health hygiene and cleanliness we scheduled 3 mothers meet per week, which is really beneficial for student's overall growth. We arrange quiz completion for mother's to update their general knowledge.

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Project UDAAN

Mundra has created a position for itself by creating capacities in Port Handling, Edible Oil Refining and Power Generation. With a vision to familiarize, educate and inspire the future generation to become successful business leader, engineers, managers and other professionals, the Adani Foundation organizes Education Exposure visits to Mundra for High schools and educational institutes in Various parts of Gujarat. Total 2987 educational institutes has visited and 219410 beneficiaries of the project.



Summary of Six Months for Project "UDAAN"

APRIL -2018 TO SEPTEMBER - 2018

NO.	MONTH	SCHOOL/ COLLEGE	BOYS	GIRLS	TEACHERS	TOTAL
1	Apr -18	27	1381	515	108	2004
2	May -18	31	1107	827	105	2039
3	June - 18	30	1333	579	107	2019
4	July - 18	29	1280	727	116	2123
5	Aug -18	29	1256	770	109	2135
6	Sep - 18	28	1317	606	107	2030
TOTAL		174	7674	4024	652	12350

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Adani Vidya Mandir, Bhadreshwar



Adani Vidya Mandir, a unique Gujarati medium school was started in June 2012 at Bhadreshwar village of Mundra Taluka. The objective behind setting up this school is to provide free education to children of fishermen and economically challenged families. The foundation provides nutritious food to the pupils including breakfast, lunch and snacks every day. Special care is taken to provide high quality education and overall development of children. The children are groomed to go back to their families and communities and be the agents to change.

Class	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1 st	53	40	45	41	38	40	40
2 nd	26	68	46	41	39	37	37
3 rd	27	40	73	45	37	39	39
4 th		39	48	70	44	36	36
5 th			37	46	58	39	39
6 th			37	36	46	58	58
7 th			34	37	35	44	44
8 th			39	34	36	34	34
9 th				38	38	30	30
10 th					23	27	30
Total	106	187	359	387	394	384	387

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SUJLAM SUFLAM JAL ABHIYAN

The state government has announced its 31-day water conservation drive called 'Sujlam Sufalam Jal Abhiyan'. The campaign will be launched on "Gujarat Gaurav Din" on May 1, which is the foundation day of Gujarat state. Moreover, the government aims to revive 32 rivers in the state

Adani Foundation is willingly taking part in this drive and supporting 26 pond deepening at 19 villages of Mundra Taluka.

Inauguration of the Event was held at Nilkanth Mahadev Pond in Gundala Village. Chief Guest of the Event was Mr. Vasanthbhai Ahir (Minister of State, Welfare of socially and educationally backward classes) Distinguish guest was Mr. Virendrasinh Jadeja (MLA Mandvi-Mundra) and Mrs. Remya Mohan (Collector, Kutchh) were remained present and motivated for this noble cause

Adani Foundation is working for water conservation with salinity department in construction of 18 check dams as well as more than 20 pond deepening work since 2007.

Adani Foundation got chance to become a part of Sujlam Sufalam Jal Abhiyan. Adani Foundation will make the project successful and support this noble cause.



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The Environment Impact Assessment (EIA) Notification, 2006, issued under the Environment (Protection) Act, 1986, as amended from time to time, prescribes the process for granting prior environment clearance (EC) in respect of cevoain development projects/activities listed out in the Schedule to the Notification.

Sustainable development has many important facets/components like social, economic, environmental, etc. these components are closely interrelated and mutually re-enforcing. Under Corporate Environmental responsibility 10 km radius villages from SEZ Boundaries.

To make connections between human actions and the level of biological diversity found within a habitat and/or ecosystem, today we launch project "Sanrakshan" in coordination with GUIDE. Today MOU has been signed with Dr. Thivakaran - GUIDE for conservation of mangroves spices on coastal belt.



ENVIRONMENT
SUSTAINABILITY

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Under Sujlam Sufalam project Adani Foundation has successfully completed pond deepening work in Mundra & Abdasa Taluka in record time. 26 pond deepening in Mundra and 7 pond deepening in Abdasa accomplished with all parameters calculated. In Mundra taluka 51723 cum excavation work has been done which increase storage capacity of 51 ML.

In Naliya taluka 14550 cum excavation work has been done which increase storage capacity of 15 ML. Total 66 ML storage capacity will be increased.

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PARTICIPATORY GROUND WATER MANAGEMENT

At the turn of millennium, the state watched with growing alarm the steady depletion of its ground water and launched massive drive to achieve water security in Mundra region. As a part of pre monsoon activities with ACT (Arid Communities and Technologies – NGO) we have carried out following work. But, due to negligible rainfall we are not able to find out outcome of this project.



Borana- Artificial bore well recharge –work completed



Mangara- Artificial bore well recharge – work completed



Dhrub- pond deepening work – work completed



Mota kapaya-abanded bore well recharge – work completed

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PROJECT "SANRAKSHAN" - BIODIVERSITY

The mangrove biodiversity enrichment project in and around Adani ports special economic zone limited (APSEZL) aims to introduce select true mangrove species on a pilot scale in suitable coastal belts and assess their survival. Because this project is the first of its kind, the expected survival rate is between 20-30%.

The project is currently in its initial stages of establishing nurseries and sowing seeds of several different species brought in from multiple locations in and outside of Gujarat state. These nurseries have been developed in tidal flats near the village of Luni, Kutchh, Gujarat.

The mangrove seeds/propagules for the establishment of the nursery were brought in from various locations in India, namely, Machilipatnam (Andhra Pradesh), Pondicherry (Tamil Nadu), Parangipettai (Pichavaram Mangroves, Tamil Nadu), Kandla (Gujarat) and Jamnagar (Gujarat).

In most of these locations, there is adequate fresh water supply available due to high/substantial rainfall and/or presence of major rivers (also important river confluences and deltas that give rise to a thriving estuarine environment). Consequently, the mangrove species that successfully grow in those regions are adapted to a low-salinity environment (where salinity is approximately 20 ppt) against that of 37-44 ppt prevailing in Kachchh coastal waters. Furthermore, the species selected to establish the biodiversity enrichment project also belong to this group of mangrove species. This subsequently creates a challenge for the team heading this project because the Kachchh region does not provide adequate salinity ranges for survival of most of these species. In fact, it provides an extremely harsh saline environment (salinity can range up to as high as 44 ppt during summer).

Considering the above-mentioned scenario, the site selection criteria, need for species of high salinity tolerance and studying their natural occurrence in Kachchh becomes critical in ensuring a substantial survival rate of the mangrove species selected to potentially successfully establish a diverse and resilient mangrove community in the Kachchh region.

Furthermore, a highly diverse set of mangrove species will ensure resilience in the face of changing climate and could probably provide as a thriving gene pool and seed bank in the future for the Kachchh region.



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Table 1: NURSERY STATUS AS OF SEPTEMBER 2018

Sr. No.	SPECIES	LOCATION (FROM)	SITE	DATE OF ARRIVAL IN BHUJ	DATE OF SOWING	NO. OF SEED-BAGS ESTABLISHED	NO. OF SEEDS IN EACH BAG	TOTAL NO. OF SEEDS SOWN	APPROX. SURVIVAL RATE TILL DATE
1	<i>Aegiceros corniculatum</i>	Parangipettai		Sept 21	Sept 25	2000	2	4000	
		Kandla							
2	<i>Excoecaria agallocha</i>	Pondicherry		Sept 22	Sept 26	4000	10	40000	
3	<i>Rhizophora apiculata</i>	Machilipatnam		Sept 22	Sept 26	4000	1	4000	
4	<i>Ceriops decantra</i>	Parangipettai		Sept 21	Sept 25				
		Machilipatnam		Sept 22	Sept 26				
5	<i>Bruguiera gymnorrhiza</i>								
6	<i>Xylocarpus moluccensis</i>	Machilipatnam		Sept 22	Sept 26	1360	1	1360	
7	<i>Bruguiera cylindrica</i>	Machilipatnam		Sept 22	Sept 26	1500	1	1500	
8	<i>Ceriops tagal</i>	Jamnagar		Sept 15					

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PROJECT "DRIP IRRIGATION"

• Basis of Requirements of Drip Irrigation

The main source of livelihood being agriculture, the cultivators tend to use more and more underground water for irrigation. Underground waters have gone very highly saline. The use of such water for irrigation has made the soil also saline and the crop yields have dwindled.

• Process of Drip Support

Farmer have to applied in the prescribed form of Adani foundation with photograph.

Inspection and verification will be by AF representative. Ration card, work order of G.G.R.C, 7/12 certificate and all bills must be attached.

Farmer will be informed by telephonic to have form query.

Primary information about farmer land will be received by telephone. Farm visit within 10 days of after received of application and verified the installation of system as per map and material as per bill will be checked and get farmer feed back.

Verification report submitted to account office.

Payment within 20 days if all document is complete through net banking.

Farmer economic study after our support.

• Villages of Drip Support

Keeping in view the situation and request comes from community, once again Drip irrigation support is planned in three phase. As a part of first phase, we are considering 22 potential villages. We have put condition that we will support only if they become agree for fodder cultivation at least in one acre



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Building a strong community relationship is the key to progress of Adani Foundation. The programs such as Education, Health and Sustainable livelihood development play a very important role in building this strong relationship with the community. These three programs are incomplete without the inclusion of the Rural Infrastructure Development program.

This year on path of sustainability, we have taken some steps as follows...

Under Dignity of Drivers Project, Adani Foundation has constructed Resting Shed for Drivers entering in SEZ Premises. Total 50 beds are constructed, drinking water and sanitation plus recreational – TV Facilities and will be charged minimum. Adani Foundation has handed over the project to ASSET Department – SEZ as a revenue generation model.

In this ceremony Mr. Avinash Rai (CEO- APSEZ), Mr. Rakshit Shah(Executive Director – APSEZ), Mr. Pritpal Singh (Head – SEZ Operation) and other transporters remained present.

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RURAL INFRASTRUCTURE DEVELOPMENT



Adani Skill Development Centre (ASDC) is playing a pivotal role in implementing sustainable development in the state.

Several miscellaneous industries exist in Kutch district. Adani Skill Development Centre has started a center in Mundra block so that the needs of these industries are fulfilled, the local youth is enrolled in various training / skill courses and the distance between the both is minimized. The objective of this center is to impart different kinds of training to the students of 10th, 12th, college or ITI from surrounding areas. Thus, various employment-oriented trainings are organized to optimize the skills, art and knowledge through proper guidance and direction.

During this six months Total 762 people is given various trainings to enhance socio economic development.

Out of which 227 people are getting employment and average income up to Rs. 6500 per month.

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Adani Skill Development Centre

Work in progress

- Drainage maintenance and other misc works
- Basic infra. Facility in Labour Colony
- Drainage chamber and covers ,wandh village
- Development in common place, Navinal
- Civil works in gadhvi samaj community hall, Navinal
- Civil works in secondary school, Navinal
- Repair of west weir work at zarpara
- Construction of fisherman house, shekhadiya



Labour colony- sanitation work



Driver Rest Shed at North Gate



Cricket pavilion shed, Nani Khakhar



Zarpara- west weir repairing work

Completed works

- Civil and electrical works in HMV driver rest shed
- River and pond cleaning by JCB- Nani khakhar, Zarpara and Baroi
- 26 pond deepening work under SSJA in 19 villages of mundra taluka

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DETAILS OF VARIOUS TRAINING UNDERTAKEN

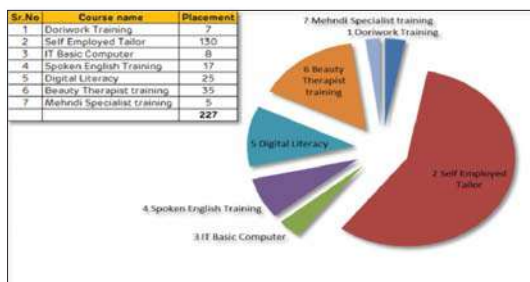
Sr.No	Course name	No.of candidates	Male	Female	Place	Start date	End date
1	Doriwork Training	19	0	19	Juna Bandar	01-04-2018	31-05-2018
2	Doriwork Training	20	0	20	Navinal	01-04-2018	31-05-2018
3	Self Employed Tailor	34	0	34	Tunda	01-04-2018	31-05-2018
4	Self Employed Tailor	15	0	15	Pragpar	10-04-2018	10-06-2018
5	IT Basic Computer	18	14	4	ASDC collage centre	01-05-2018	30-06-2018
6	Spoken English Training	15	8	7	ASDC Collage centre	01-05-2018	30-06-2018
7	Self Employed Tailor	11	0	11	Pragpar	03-05-2018	03-07-2018
8	Self Employed Tailor	33	0	33	Tunda	18-05-2018	20-07-2018
9	Digital Literacy	40	17	23	ASDC Collage centre	04-06-2018	03-07-2018
10	Beauty Therapist training	93	0	93	ASDC Baroi Centre	18-06-2018	17-08-2018
11	Digital Literacy	35	16	19	Tunda	02-07-2018	01-08-2018
12	Digital Literacy	107	53	54	Dhrub	04-07-2018	03-08-2018
13	Self Employed Tailor	33	0	33	Toda	19-07-2018	18-09-2018
14	Self Employed Tailor	16	0	16	Tunda	25-07-2018	24-09-2018
15	Spoken English Training	31	18	13	ASDC collage centre	01-08-2018	30-10-2018
16	Digital Literacy	38	27	11	ASDC Collage centre	08-08-2018	07-09-2018
17	Self Employed Tailor	73	0	73	Rampar	16-08-2018	15-10-2018
18	IT Basic Computer	12	12	0	Adani House	27-08-2018	28-08-2018
19	Beauty Therapist training	97	0	97	ASDC Baroi Centre	04-09-2018	05-11-2018
20	Mehndi Specialist training	22	0	22	ASDC Baroi Centre	04-09-2018	05-11-2018
		762	165	597			

Total fee Collected = 2,42,500/-

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DETAILS OF VARIOUS TRAINING UNDERTAKEN



Adani skill development centre Mundra
Placement figures of ASDC.

Adani skill development centre Mundra is
qualified in NSDC with 5 star rating for job role
junior crane operator and unarmed security
guard.

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SWACHHAGRAHA

Mundra site- Adani Foundation launched Swachhagraha in 4 Blocks of Kutch District (Mundra, Anjar, Gandhidham, Bhuj). The Swachhagraha programme was launched in Bhuj District, Gujarat State with participation of over 450 Schools in Swachhagraha Prerak's Training Workshop with support of District Education Department, Kutch District. The programme was launched by Mrs. Shilin R. Adani, Trustee, Adani Foundation; Mr. Prabhav Joshi – DDO, Kutch Dist; Mr. V.S.Gadhavi, Director, Adani Foundation; Mrs. Sushama Oza, Director, Adani Foundation; Mrs. Ami Rakshit Shah, Adani Public School; Mr. Rakesh Vyas – DEO, Kutch; Mr. Sanjay Parmar – DPEO, Kutch; Dr. Gyaneshwar Rao, Medical Director, GAIMS; Dr. Gurudas Khilani, Dean, GAIMS; Ms Pankti Shah, Unit CSR Head, Mundra on 1st October 2018 at 10.30 AM at GAIMS Auditorium, Bhuj with full day Swachhagraha Training Workshop of Teachers.



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LAUNCHED "SAKSHAM" CENTER AT BAROI GUEST HOUSE

ASDC-Baroi (Mundra):- Adani skill development Center (ASDC) launched 'SAKSHAM' center at Baroi guest house in Mundra on 16th June 2018 to provide skill development training to youth in the Mundra. An initiative of Adani foundation, the center in the Mundra city will benefit about more than 500 candidates every year in Beauty & Wellness course. The center will provide skill development training to the youths in the age group of 14-40years initially in Beauty & Wellness course. Total enrolled for this training were 90 students.



LAUNCHED "DIGITAL LITERACY" AT UTHHAN VILLAGES

Adani Skill Development center, Mundra has started digital literacy class in local village. 40 girls and boy are participated in first session. All village people are happy for this training in phase. We have also arrange evening batches to cover all people of various village. Digital literacy training done through laptops and Tablets:-

- 1). The course duration is 26 days and number of hours is 52.
- 2). Per day training delivery hour is 2.
- 3). This is completely based on demonstrative and practical training methodologies.
- 4). The delivery is intended to be done through Desktops and Tablets
- 5). Attaching Also cover for payment banking topics .

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SWACHHAGRAHA : At Gujrat Adani Institute of Medical Sciences

"Swachhagraha " – Project launched at Adani G K General Hospital to embed values of cleanliness in minds of the staff and community as well. Separate staff member is also appointed by HO team for the same. Mr. Gadhavi had launched swachhagraha by presenting insignia to Dr. Bhadraka (Head, Adani GKGH).



SAMVEDANA : Series of Motivational Sessions

To motivate and felicitate paramedical and nursing staff motivational session was organized with help of Ms. Hiral Pandya which is critical requirement of GKGH. She talked about behavior aspect as well as compassionate approach to patients.

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Swachhagraha Marathon : Run Against Depression

Gujarat Adani Institute of Medical Sciences G K General Hospital and Student Counsel Organized the Bhuj Marathon. Theme of the marathon was Run against Depression and Swachhagraha. Total more than 800 participants took part in this marathon with enthusiasm and zeal.



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International Coastal Clean up Day

Mundra Adani foundation MUNDRA has celebrated swachhagraha related International Coastal Clean up Day celebrated with Coast Guard" with theme swachhagraha.. School students, Coast Guard staff and Adani foundation staff had cleaned Mandvi beach and give a message of swachhagraha.. At the end information given about swachhagraha project



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Even as a breakthrough is waiting to happen, five trainees were enrolled on Tuesday 5th Dec 17 by Adani Skill Development Centre (ASDC) for the age-old Namda craft, a dying art form of Kutchhh district in Gujarat. First initiative of its kind, the skill development training on Namda is aimed at preparing a future generation of artisans for the historic art form. Adani Foundation, the CSR wing of Adani Group had vowed to save Namda from extinction and bring back its past glory. Originally innovated by an artisan of Mughal Era in the 11th Century India, Namda craft was primarily practiced by the Pinjara and Mansuri communities and Sama Muslims native to Kutchhh. Sans proper encouragement, marketing avenues and promotion, the art suffered a major setback with artisans gradually switching over to other professions for livelihood earning. Till recently, when the Adani Foundation, Mundra team members approached Mansuri Karimbhai Umarbhai, perhaps the sole survivor of the craft in Kutchhh, Namda was dying a natural death. As a good corporate citizen, the Adani Group initiated a move to protect the art form, as well to make it popular and sustainable. The first step towards the enormous goal of reviving Namda, the training programme kicked started with lots of positivity and enthusiasm among the trainees, who are committed to put best efforts for bringing back the past glory for this craft. And the best part of the initiative is that, the Namda survivor himself would train the future-artisans.

GREAT ACHIEVEMENT IS....
KARIM MANSOORI ONCE AN ORDINARY NAMDA ARTISAN IS NOW AN ENTREPRENEUR. THE ADANI FOUNDATION FEELS CONTENTIN REVIVING THE DYING NAMDA ART FORM AND SUPPORTING MANSURI IN STARTING HIS OWN BUSINESS.
HIS JOURNEY IS OFF TO TO A FLYING START AND WE WISH HIM ALL THE BEST.

NAMDA : ON REVIVAL PATH



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New Journey of My Life !!

As if destiny had turned cruel to her, one after another shocks shattered the family life of Shyama Ben. Otherwise a jolly woman with lots of positive energy and great dreams of in her bright eyes, the unexpected miseries compelled her to enter into a state of solitude and high-depression. This villager of Sadau in Mundra locality had 7 times miscarriages, each time giving her an serious emotional blow and ceasing the hope of being a mother. This was not the end; luck had kept something even worst for her. For no fault of this poor lady in the mishaps and destiny doings, her husband left her in the midst of life at a time when she required maximum support from a person who knows her so well and can best understand her pains.

All these pushed Shyama Ben into darkness of life and she became totally cut-off from the social mainstream. This also adversely resulted into her health and mental status. But its well said, "What God Will.....", there was something big which she was destined to achieve in life to define her self-identity and shape the life in a constructive way. With help of neighbor lady she joined SHG Group and capacity building trainings by Adani Foundation. Within six months she took 5 training i.e. capacity building, leadership, banking, federation making and record keeping.

In June 2018 Adani Foundation planned an exposure to SEWA group. After exposure programme of SHG members and could notice certain potentials in her, which led to a new beginning. With required training and skill upgradation, she appeared for an interview in Britannia Industries within the APSEZ, Mundra and got selected for the position of supervisor. Today she is a self-sufficient woman with a earning of Rs 9000/- per month with other allowance for lunch and transportation. The new journey has again given her an opportunity to lead life normal way and start dreaming again to achieve greater things in life.



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Ways to Bright Future !!

Mamad Sakil Osman Ghani Adani Vidya Mandir – Bhadreswar 'A High Leap by a Poor Child from the Fisher folk Community.....Towards Engineering Studies.....Through Adani Vidya Mandir' 2017-18 Name: Mamad Sakil Osman Ghani Father's Name: Osman Ghani Mother's Name: Halimaben Family: Brother (1) + Sisters (4) & Parents; total 8 members Occupation: Fishing Village: Luni; Taluka: Mundra; District: Kutch In modern times along with its importance, education has also made changes in our lifestyle.

Adani Vidya Mandir, Bhadreswar, is like a lighthouse giving a ray of hope in remote areas. It was established to provide education to children from socio-economically backward communities. The school provides high-quality education, nutritious food as well other kinds of facilities so that children's self-respect increases through the education. Speaking of students, Mamad Sakil was enrolled in the Std. 7, in 2014-15 in the Adani Vidya Mandir, Bhadreswar. His father, Osman Ghani, is a fisherman. His family of eight members consists of his mother, his father, a brother and four sisters. They live in Luni Bandar.

From the beginning it was seen that he was a quiet, straightforward, humble and cultured boy. He also exhibits behavior with moral values. Everyone helped the family socio-economically. In the Adani Foundation with the help of Vijayhai and Ishwarbhai noted details of the family and found that nobody was educated. In such times of rising prices and inflation it is difficult to raise so many children. So the school management decided to take over and fulfil his basic necessities. Efforts for this child's educational success were made including counselling and guidance.

During his first year in the school, he participated in the running competition in the Khel Mahakumbh and came first in the district. In this way, he began to progress in not just education but also other areas. He started getting promoted to the next standard every year and eventually he reached Std. 10. With the help of the school in various ways and his own hard work, he successfully cleared Std. 10 with 77%. He stood second in the school. Now, the journey of his life has really started. He has started to see new and inconceivable dreams for his future career. Now, the Adani Foundation will be holding his hand to fulfil his dreams.

After completing studies of the Std. 10, he was gifted an android phone by the school principal, Smt. Lali madam, as he needed new technology to get admission for further studies. In this way all the obstacles have been removed from his career path. He has now taken admission in mechanical engineering in Bhuj Polytechnic, and the Adani Foundation has paid his entire fee. A new innings has started in his life. With his hard work he is making progress step-by-step. He has set a good example for other students. And we all hope that he will eventually become a strong financial support to his family.



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Enhance Employability!!

Vimleshkumar, an RTG crane operator at MICT, Mundra is a classic case study of skill development training ensuing employability. Just couple of month back a much stressed Vimleshkumar had approached Adani Skill Development Centre (ASDC) Mundra to undertake checker-cum- RTG crane operator training with a hope of getting some employment somewhere to support his economically poor family. After passing 12th qualification, Vimlesh was rendered unemployed like hundreds and thousands of youths of his age and locality.

While undergoing the ASDC training he would have never imagined that this additional knowledge and skill up gradation would bring him a bright future and good days for his family. Soon after completion of his 3 months duration course, Vimlesh Kumar got a job in MICT, Mundra doing cargo handling operations at MICT, Mundra. His current earning per month is Rs 12,000/- .

Vimleshkumar for employability through knowledge and skill development...



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Divine feeling towards Mata no Madh!!

Mata no Madh is a village in Lakhpat Taluka of Kutch district, Gujarat, India. The village lies surrounded by hills on both banks of a small stream and has a temple dedicated to Ashapura Mata, the household deity of former Jadeja rulers of Cutch State. She is also considered patron deity of Kutch. Many people are used to reach this Ashapura temple by feet from different parts of India. G K General hospital has organized health facility through at 10 locations on way of Mata Na Madh during Navaratri 5th to 11th oct.. In addition to medical facility, This health shibir will provide awareness of swachhagraha, swine flu and Beti bachavo as well The concept given by Shri Gadhvi Sir and implementation will be taken care by Dr. Chintan and Adani foundation health team.



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ADANI FOUNDATION ALL PROJECT ACHIEVEMENT APRIL – SEP 2018-19

AF- COMMUNITY HEALTH - MUNDRA 2018-19					
Sr. No.	Description	No. of Direct Beneficiaries	No of Indirect Beneficiaries	No of Access Beneficiaries	Remarks
1	Mobile health care unit	8972	26916	61500	29 Village
2	Medicines for rural clinics - 9	10485	31455	37500	11 Village
3	Support to Needy people	485	2425	73700	15 Village
4	Dialysis Support	3	32	119	No. of Dialysis-119 (03 Village)
5	Health Card Service to Senior Citizen	5137	25685	169279	68 Village
6	Suposhan	21502	64506	153219	Child, Adolescent girls, RPA Women (61 Village)
7	Shakti Raksha Project	457	2285	153219	61 Village
Total		47041	153304	648536	
AF- COMMUNITY HEALTH - GAIMS BHUJ					
1	Health Camp	4120	16780	7031	-
2	School Health Check up	527	1671	589	-
3	School Awareness	150	603	0	-
4	Ortho Implant	24	120	576	-
5	Death Body	259	1092	0	-
6	Patient Care & Coordination	2628	10872	162000	-
7	Mata no Madh - Health Camp	21000	84000	250000	
		28708	115138	420196	

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Annexure – 14

Hiral Hasmukhbhai Patel

From: Hiral Hasmukhbhai Patel
Sent: 02 May 2018 11:09
To: 'rdwcr-cgwb@nic.in'
Cc: Shalin Shah
Subject: Submission of ground water analysis data
Attachments: Submission of GW data to CGWB.pdf

Kind Attn: Shri Anoop Nagar, Regional Director,
CGWB, West Central Region, Ahmedabad

Dear Sir,

As part of the compliance requirement for our project activities at Adani Ports and SEZ Ltd., Mundra, we hereby submit the analysis results of ground water samples taken from the project site. This is for your records and suggestions, if any.

Thank you,

Regards,

Hiral Patel

Dy. Manager (Environment) | Adani Ports and Special Economic Zone Limited

Mob: +91 90999 81310 | Direct: +91 79 2555 8110 | Extn. 58110 | hiral.patel@adani.com | www.adani.com

1st floor, APSEZL house, Nr. Adani House , Nr. Mithakhali Circle , Navrangpura , Ahmedabad 380 009, Gujarat, India.

Do you really need to print? Please consider environment before printing this e-mail.



Thinking big
Doing better

Our values: Courage, Trust and Commitment

Date: 28.04.2018

To,
Central Ground Water Board West Central Region
 Swami Narayan College Building,
 Shah Alam Tolnaka,
 Ahmadabad,
 Gujarat – 380022.

Kind Attn: Shri Anoop Nagar, Regional Director

Sub: Intimation regarding monitoring of ground water level & quality through bore hole

Dear Sir,

With reference to above stated subject, Adani Ports and Special Economic Zone Limited (APSEZ) located at Village: Mundra, Tal. Mundra, Dist. Kutch – 370421 would like to clarify you as below.

APSEZ has constructed 04 nos. of bore holes within multi-product SEZ for regularly monitoring of ground water level and its quality. Locations of bore holes are as below.

Sr. No.	Location	Latitude	Longitude
1	Adani House – Port User Building	22°46'69.8"N	069°41'00.2"E
2	Nr. Dhrub Railway Station	22°48'07.3"N	069°39'85.6"E
3	Nr. Railway Over Bridge	22°47'89.8"N	069°40'95.1"E
4	Nr. Common Effluent Treatment Plant	22°48'64.0"N	069°42'39.0"E

Ground water monitoring is being carried out at every three month by NABL and MoEF&CC accredited agency namely M/s. Pollucon Laboratories Pvt. Ltd. since 2015. Latest ground water monitoring reports are enclosed here as **Annexure – A** for you reference.

APSEZ is requesting you to kindly consider above mentioned facts and provide your opinion regarding the same.

Thanks & Regards,
Adani Ports and Special Economic Zone Limited



Shalin Shah

Head - Environment

Annexure – 15

❖ Parking area within APSEZ





Annexure – 16

SUMMARY OF CUSTOMER

1. Name of consumer as Electrical Inspector :Adani House, Adani Ports and Special Economic Zone Limited
2. Name of the Consumer : Adani Ports and Special Economic Zone Limited, Mundra
3. Address : Post Bag No. 1, Village - Dhruv, Tal - Mundra, Kutch 370421 Gujarat
4. Phone No. : 9979869867
5. Fax No. : NA
6. Name of Contact Person: Mr. Sudershan Singh
7. E-Mail ID : sudershan.singh@adani.com
8. Name of Auditor : MITCON Consultancy & Engineering Services Limited,
215, 2nd Floor, Ratna Business Square, Opp. H K College, Ashram Road, Ahmedabad- 380 009.
9. Auditor Firm Authorization No.: EA-065
10. E-Mail ID : krunal.shah@mitconindia.com (M- 94295 19778)
11. Contract Demand : 500 KVA
12. Purpose (Type of Consumer, as per electricity invoice) : Type - HTP-I
13. Consumer Account No. (Service No., attach recent electricity bill copy) : 200033
14. Name of the Supplier (DGVCL/UGVCL/MGVCL/TPL) : MUPL
15. Period of Audit Month & Year : Dec -2017
16. Date of Submission of Report/Month : Mar-2017
17. Proposed Energy Saving in Terms of :
 - a. Unit in KWH : 29630
 - b. In Lakh Rs.: 21.984
 - c. Investment in Lakh Rs.: 37.905
 - d. Payback Period : 21

Sign and Seal of Auditor Firm

Sign and Seal of Company

ESTIMATED SAVING AND INVESTMENT SHEET

Sr. No.	Energy Saving Area	Saving Potential in Kwh Lacs/year	Saving Potential in Rs. Lacs/year	Investment in Rs. Lacs	Simple Payback Period in months
1	Energy Saving by setting up VFD control in Raw House Pump 1 & 2 motor	0.1085	0.803	0	Immediate
2	Saving in PAC by overhauling with repairing damage fall ceiling and window curtain	0.152	1.125	0.85	10
3	Saving with Improving Power Factor		0.06	0	Immediate
4	Energy Saving by retrofitting VFD in Irrigation Pump motor	0.119	0.879	0.8	12
5	Saving with AVC in Lightning power	0.175	1.299	0	Immediate
6	Energy Saving by replacing energy efficient indoor lighting and improving ILER	0.046	0.343	0.58	21
7	Energy Saving by replacing reverse lighting tube lights with LED strip	0.061	0.449	0.675	19
8	Saving With New Technology High Efficiency UPS	2.301	17.026	35	25
	Grand total	2.963	21.984	37.905	21

Sign and Seal of Auditor Firm

Sign and Seal of Company

PROPOSED IMPLEMENTATION SCHEDULE

Sr. No.	Energy Saving Area	Proposed Implementation Action Plan with tentative schedule
1	Energy Saving by setting up VFD control in Raw House Pump 1 & 2 motor	We are working on that.
2	Saving in PAC by overhauling with repairing damage fall ceiling and window curtain	Proposed implementation done.
3	Saving with Improving Power Factor	PF Improved Done.
4	Energy Saving by retrofitting VFD in Irrigation Pump motor	We are working on that.
5	Saving with AVC in Lightning power	The system voltage at load end is being maintained 230V and therefore there is no need to install AVC.
6	Energy Saving by replacing energy efficient indoor lighting and improving ILER	We are working on that.
7	Energy Saving by replacing reverse lighting tube lights with LED strip	We are working on that.
8	Saving With New Technology High Efficiency UPS	We are working on that.

Sign and Seal of Auditor Firm

Sign and Seal of Company

SUMMARY OF CUSTOMER

1. Name of consumer as Electrical Inspector : PUB Buildings, Adani Ports and Special Economic Zone Limited
2. Name of the Consumer : Adani Ports and Special Economic Zone Limited, Mundra
3. Address : Post Bag No. 1, Village - Dhrub, Tal - Mundra, Kutch 370421 Gujarat
4. Phone No. : 9979869867
5. Fax No. : NA
6. Name of Contact Person: Mr. Sudershan Singh
7. E-Mail ID : sudershan.singh@adani.com
8. Name of Auditor : MITCON Consultancy & Engineering Services Limited,
215, 2nd Floor, Ratna Business Square, Opp. H K College, Ashram Road, Ahmedabad- 380 009.
9. Auditor Firm Authorization No.: EA-065
10. E-Mail ID : krunal.shah@mitconindia.com (M- 94295 19778)
11. Contract Demand : 400 KVA
12. Purpose (Type of Consumer, as per electricity invoice) : Type - HTP-I
13. Consumer Account No. (Service No., attach recent electricity bill copy) : 200008
14. Name of the Supplier (DGVCL/UGVCL/MGVCL/TPL) : MUPL
15. Period of Audit Month & Year : Dec -2017
16. Date of Submission of Report/Month : Mar-2017
17. Proposed Energy Saving in Terms of :
 - a. Unit in KWH : 220100
 - b. In Lakh Rs.: 16.504
 - c. Investment in Lakh Rs.: 25.312
 - d. Payback Period : 19

Sign and Seal of Auditor Firm

Sign and Seal of Company

ESTIMATED SAVING AND INVESTMENT SHEET

Sr. No.	Energy Saving Area	Saving Potential in Kwh Lacs/year	Saving Potential in Rs. Lacs/year	Investment in Rs. Lacs	Simple Payback Period in months
1	Saving with Power factor Improvement		0.21	0	Immediate
2	Energy Saving by replacing existing UPS with Energy Efficient UPS	2.099	15.54	25	19
3	Energy Saving with AVC for lighting load in PUB, PMC, Customs Buildings	0.088	0.652	0	Immediate
4	Replacement of conventional fans with Energy Efficient fans	0.013	0.102	0.312	37
	Grand total	2.201	16.54	25.312	19

Sign and Seal of Auditor Firm

Sign and Seal of Company

PROPOSED IMPLEMENTATION SCHEDULE

Sr. No.	Energy Saving Area	Proposed Implementation Action Plan with tentative schedule
1	Saving with Power factor Improvement	APFC Panel has already been installed and average PF maintained during last 2 months comes to 0.987
2	Energy Saving by replacing existing UPS with Energy Efficient UPS	The replacement of existing UPS will be done on expiry of its useful life.
3	Energy Saving with AVC for lighting load in PUB, PMC, Customs Buildings	The system voltage at load end is being maintained 230V and therefore there is no need to install AVC.
4	Replacement of conventional fans with Energy Efficient fans	The replacement of existing fans with energy efficient fans will be done on expiry of their useful life.

Sign and Seal of Auditor Firm

Sign and Seal of Company

Annexure – 17

Ref No. APSEZ/EnvCell/2018-19/017

10th May, 2018

To,
Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan,
Sector-10-A, Gandhinagar-382010

Dear Sir,

Kind Attn. Sh. K.C. Mistry

Sub: Environmental Statement for the financial year ending 31st March, 2018 for **M/s Adani Ports and SEZ Limited (Multi Product SEZ)**

Ref: PCB ID:- 31463, CC&A Order No. AWH – 88998, Valid till 21.08.2022

With reference to the above mentioned subject and reference, please find enclosed Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for **M/s Adani Ports and SEZ Limited (Multi Product SEZ), Village & Taluka: Mundra, Dist. Kutch - 370421** for the financial year ending 31st March 2018.

Thank you,

Yours faithfully,
For **Adani Ports and Special Economic Zone Limited**



Authorized Signatory

Encl: As above.

Copy to:

1. **The Regional Officer, Gujarat Pollution Control Board, Gandhidham.**

Adani Ports and Special Economic Zone Ltd
Adani House,
PO Box No. 1
Mundra, Kutch 370 421
Gujarat, India

Tel +91 2838 25 5000
Fax +91 2838 25 51110
info@adani.com
www.adani.com

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India

PG 11/5/18
Gujarat Pollution Control Board
Head Office
Sector No. 10-A,
Gandhinagar-382010

PCB ID: 31463

Ref No. APSEZ/EnvCell/2018-19/017

10th May, 2018

To,
Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan,
Sector-10-A, Gandhinagar-382010

Dear Sir,

Kind Attn. Sh. K.C. Mistry

Sub: Environmental Statement for the financial year ending 31st March, 2018 for **M/s Adani Ports and SEZ Limited (Multi Product SEZ)**

Ref: PCB ID:- 31463, CC&A Order No. AWH – 88998, Valid till 21.08.2022

With reference to the above mentioned subject and reference, please find enclosed Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for **M/s Adani Ports and SEZ Limited (Multi Product SEZ), Village & Taluka: Mundra, Dist. Kutch - 370421** for the financial year ending 31st March 2018.

Thank you,

Yours faithfully,
For **Adani Ports and Special Economic Zone Limited**

Authorized Signatory

Encl: As above.

Copy to:

1. The Regional Officer, Gujarat Pollution Control Board, Gandhidham.

Adani Ports and Special Economic Zone Ltd
Adani House,
PO Box No. 1
Mundra, Kutch 370 421
Gujarat, India

Tel +91 2838 25 5000
Fax +91 2838 25 5110
info@adani.com
www.adani.com

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India

Received
Gujarat Pollution Control Board
Regional Office
Kutch (East)

Annexure – 18

IN THE HIGH COURT OF GUJARAT AT AHMEDABAD**WRIT PETITION (PIL) NO. 12 of 2011****FOR APPROVAL AND SIGNATURE:**

HONOURABLE THE ACTING CHIEF JUSTICE MR. VIJAY MANOHAR SAHAI

and

HONOURABLE MR.JUSTICE R.P.DHOLARIA

-
- 1 Whether Reporters of Local Papers may be allowed to see the judgment ?
 - 2 To be referred to the Reporter or not ?
 - 3 Whether their Lordships wish to see the fair copy of the judgment ?
 - 4 Whether this case involves a substantial question of law as to the interpretation of the Constitution of India or any order made thereunder ?

KHETI VIKAS SEVA TRUST THROUGH ITS OFFICE BEARERS - NARAN &

2....Applicant(s)

Versus

STATE OF GUJARAT & 5....Opponent(s)

Appearance:

MR SIRAJ R GORI, ADVOCATE for the Applicant(s) No. 1 - 3

MR PARTH BHATT, AGP for the Opponent(s) No. 1 , 3

MS DHARMISHTA RAVAL, ADVOCATE for the Opponent(s) No. 2

MR MIHIR THAKORE, SENIOR ADVOCATE assisted by MR ABHISHEK

MEHTA AND MR VIVAN SHAH FOR M/S TRIVEDI & GUPTA, ADVOCATE for the Opponent(s) No. 4

MR MIHIR THAKORE, SENIOR ADVOCATE assisted by MR SHAMIK BHATT
FOR SINGHI & CO, ADVOCATE for the Opponent(s) No. 5
MR SHAKEEL A QURESHI, ADVOCATE for the Opponent(s) No. 6
=====

CORAM: **HONOURABLE THE ACTING CHIEF JUSTICE MR.
VIJAY MANOHAR SAHAI**
and
HONOURABLE MR.JUSTICE R.P.DHOLARIA

Date : 17/04/2015

CAV JUDGMENT

(PER : HONOURABLE MR.JUSTICE R.P.DHOLARIA)

1. The present writ petition in the nature of Public Interest Litigation is filed by the petitioner - Kheti Vikas Seva Trust as the respondent authorities have accorded permission to respondent Nos.4 and 5 to construct a power generation station as well as Port and SEZ in the area, where the members of the petitioner association are having their agricultural lands, in violation of the Environmental Laws and this writ petition is also filed in the interest of villagers of villages viz., Zarpara, Dhrob, Navinar, Siracha and Kandagara situated in Mundra Taluka, District Kutch, as the valuable and fertile agricultural land has so far badly affected because of the project undertaken by respondent Nos.4 and 5 and serious environmental issues have cropped up due to violation of laws by respondent Nos.4 and 5. The petitioner has

to the respondent-company and they have developed the area pursuant to such Environmental Clearance and allotment of lands. The committee constituted by the Ministry of Environment and Forests (MoEF), New Delhi to look into the complaints regarding severe impact upon environment safety and integrity committed by M/s.Adani Port and SEZ Ltd has submitted its detailed report with recommendation to the Government of India and the same is under consideration of the competent authorities. In view of the aforesaid observations made by the committee, we are convinced that no directions is required to be issued in the matter and the complaint and grievance raised by the petitioner appears to be misplaced.

65. In view of the aforesaid discussion, we do not find any merit in this writ petition. This writ petition fails and is accordingly dismissed. No order as to cost.

(V.M.SAHAI, ACJ.)

(R.P.DHOLARIA,J.)

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Annexure – 19

ANNEXURE - 19

Expense Details for Fisherfolk Amenities work in different core areas						
Sr. No.	Details	2016-17	2017-18	2018-19 (Till Date Sep'18)	TOTAL	AMT IN LACS
Expenditure Details (Amount in Rs.)						
1	Vidya Deep Yojana	20,69,300	21,18,000	3,47,000	45,34,300	45.34
2	Vidya Sahay Yojana	5,52,580	4,95,000	6,31,000	16,78,580	16.79
3	Adani Vidya Mandir – Shaping Lives	42,00,000	40,30,000	2,17,000	84,47,000	84.47
4	SENIOR CITIZEN HEALTH CARD	29,33,333	28,10,000	13,00,000	70,43,333	70.43
5	FINANCIAL SUPPORT TO POOR PATIENTS	44,39,507	12,75,000	4,95,000	62,09,507	62.10
6	Machhimar Kaushalya Vardhan Yojana	1,88,708	2,00,000	60,000	4,48,708	4.49
7	Machhimar Sadhan Sahay Yojana	2,50,000	18,75,000	2,52,000	23,77,000	23.77
8	Machhimar Awas Yojana	45,92,106	11,65,000	4,99,000	62,56,106	62.56
9	Machhimar Shudhh Jal Yojana	22,36,050	27,00,000	7,28,000	56,64,050	56.64
10	Sughad Yojana	13,67,300	1,70,000	-	15,37,300	15.37
11	Machhimar Akshay kiran Yojana	8,60,850	1,00,000	-	9,60,850	9.61
12	Machhimar Suraksha Yojana	-	-	-	-	-
13	Machhimar Ajivika Uparjan Yojana-Mangroves plantation	10,59,000	11,00,000	13,00,000	34,59,000	34.59
14	Bandar Svachhata Yojana	1,06,400	50,000	-	1,56,400	1.56
15	Cricket league and Cycle Marathon	4,32,000	6,57,119	6,25,000	17,14,119	17.14
16	Sports Material For Children & Youth at Vasahats	1,97,797	-	-	1,97,797	1.98
17	New Pilot Initiative for Polyculture	3,98,240	1,60,000	-	5,58,240	5.58
18	New Pilot Initiative for Cage farming Asian Seabass & Lobster	8,64,000	6,60,000	-	15,24,000	15.24
	TOTAL	2,67,47,171	1,95,65,119	64,54,000	5,27,66,290	527.66

Annexure – 20

To,
Director (Environment) & Member Secretary,
Gujarat Coastal Zone Management Authority,
Sachivalaya,
Gandhi Nagar

Subject: Submission of final report for Cumulative Impact Assessment at Mundra

Reference:

- (1) Your office letter no. ENV-10-2013-118-E dated 19.12.2014
- (2) MoEF&CC order vide F. No. 10-47/2008-IA-III dated 18.09.2015
- (3) Our submission of 1st progress report vide letter dated 10.09.2016
- (4) Our submission of 2nd progress report vide letter dated 27.07.2017

Dear Sir,

In view of compliance with the directions issued by MoEF&CC, GCZMA in its 21st meeting held on 07.02.2014 has directed APSEZ to submit Terms of Reference (ToR) to undertake a "Cumulative Impact Assessment study for the projects already granted Environmental Clearance (EC) and CRZ clearance in the region so that future developments can be assessed for providing necessary approvals at a later stage".

Further to the submission of ToR and subsequent discussions, GCZMA has approved ToR for undertaking Cumulative Impact Assessment (CIA) study vide letter no: ENV-10-2013-118-E dated 19.12.2014.

In view of the above, APSEZ appointed M/s. Cholamandalam MS Risk Services Limited (CMSRSL) for carrying out CIA Study.

Further, an order was issued by MoEF&CC vide F. No. 10-47/2008-IA-III dated 18.09.2015, with specific directions to APSEZ. Below mentioned directions relate to the need of CIA study.

xi) A regional strategic impact assessment report with a special focus on Mundra region will also be prepared. The cost towards these studies will also be borne by PP.

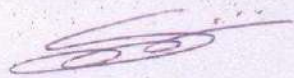
x) In the subject matter of thermal power plant, the proposed regional strategic impact assessment analysis will take in to account salinity aspect along with its potential environmental impact to suggest future corrective actions as well as the guiding tool on extension and additional of the capacities.



During the course of the study, APSEZ has submitted two progress reports to GCZMA. Also, APSEZ has been submitting the updated status regarding the progress of the CIA study to all concerned authorities as part of the six monthly compliance reports. A joint site visit (MoEF&CC, RO, Bhopal, GCZMA and GPCB, RO, Gandhidham) was carried out during 21 – 22.12.2016 for compliance report verification.

In continuation to our earlier submissions, we would like to inform you that the CIA study is now completed (including baseline data collection, completion of all the technical studies to identify possible impacts on various environmental attributes and drafting a suitable macro level environment management plan) and the final report is enclosed for your consideration.

Thank you
Yours sincerely,


Shalin Shah
Head – Environment

✓ Copy to: Sh. Kushal Vashist, Director, MoEF&CC, Indira Paryavaran Bhavan, Jor bagh road, Aliganj, NewDelhi

02/12/18
श्री. कुशल वाशिस्ट को प्रेषित किया
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय
Ministry of Environment, Forests & Climate Change
भारत सरकार, Govt. of India
इन्दिरा पारिवारिक भवन, Indira Paryavaran Bhavan
जोरबाग रोड, अलिगंज/Jorbagh Road, Aliganj
नई दिल्ली/New Delhi-110003