



APSEZL/EnvCell/2019-20/020

Date: 20.05.2019

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](mailto:rowz.bpl-mef@nic.in)

**Sub** : Half yearly Compliance report for Environment Clearance for the "Establishment of Common Effluent Treatment Plant (CETP) of 17 MLD capacity at Survey no. 141 (part), village: Mundra, taluka; Mundra, Dist. Kutch, by M/s. MPSEZ Utilities Pvt. Ltd."

**Ref** : Environment clearance granted MPSEZ Utilities Pvt. Ltd. vide letter dated 20<sup>th</sup> February, 2010 bearing SEIAA letter no. SEIAA/GUJ/EC/7(h)/43/2010.

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 Clearance for the period of October – 2018 to March – 2019 has been submitted through mail communication and acknowledge of the same is attached here for your records.

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) Zonal Officer, Regional Office, CPCB – Western Region, Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara – 390 023
- 2) Member Secretary, GPCB – Head Office, Paryavaran Bhavan, Sector 10 A, Gandhi Nagar – 382 010
- 3) Member Secretary, SEIAA, Gujarat, Paryavaran Bhavan, GPCB, Sector 10 A, Gandhi Nagar – 382 010
- 4) Regional Officer, Regional Office GPCB (Kutch-East), Gandhidham, 370201

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# Environmental Clearance Compliance Report

of



Common Effluent Treatment Plant,  
Mundra, Dist. Kutch, Gujarat

of

MPSEZ Utilities Pvt. Ltd.  
(MUPL-CETP)

for  
Period:

October-20 18 to March-20 19

<b>adani</b>	<b>MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)</b>	<b>From : Oct'18 To : Mar'19</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

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# **Compliance Report of Environment Clearance**



	<b>MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)</b>	<b>From : Oct'18 To : Mar'19</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

**Half yearly Compliance report for Environment Clearance for the for the project  
“Establishment of Common Effluent Treatment Plant (CETP) of 17 MLD capacity at Mundra,  
Dist. Kachchh, Gujarat of M/s. MPSEZ Utilities Pvt. Ltd. (CETP) issued vide letter no.  
SEIAA/GUJ/EC/7(h)/43/2010 dated 20<sup>th</sup> February, 2010**

<b>Sr. No.</b>	<b>Conditions</b>	<b>Compliance Status as on 31-03-2019</b>
<b>A. Specific Conditions</b>		
1	The MUPL shall conduct a study, every year for initial three years and thereafter once in a three year, through the reputed institute or the Agricultural University to assess the impacts on soil and ground water quality, if any, due to application of treated effluent on land for plantation/ gardening and adopt the additional mitigation measures as may be suggested through such studies.	<p>Complied.</p> <p>Environment Audit is being carried out on six monthly basis through reputed institute approved by GPCB. Soil and ground water quality monitoring is part of Environment Audit Report. Recommendations suggested as per Environment Audit Report are being complied. Last Audit Report was submitted to GPCB on 09.01.2019. Acknowledgement copy of the same is attached as <b>Annexure – 1.</b></p>
2	In order to assess and control the quality of effluent discharge, the MUPL shall carry out sampling of effluent from each member unit (cluster or individual unit) on daily basis, maintain records and submit the same at interval of every month.	<p>Complied.</p> <p>Effluent sample of each member unit is collected on daily basis and analysed in-house at environmental laboratory.</p> <p>Analysis reports are submitted to GPCB every month and typical proof showing the same is attached as <b>Annexure – 2.</b></p>
3	Industries having high pollution potential like dyes and dye intermediates, bulk drugs and intermediates, pesticides etc. shall not be allowed in MPSEZL in such proportion that effluent received at the CETP always meets with the inlet norms.	<p>Complied.</p> <p>Presently Textile, chemical, warehouse, oil, steel CFS, electronic and food products category industries are available in SEZ area.</p> <p>At present there is no such industry within APSEZ as mentioned in the condition.</p> <p>Inlet norms of effluent for CETP are mentioned at specific condition no. 6. Effluents from any industry are allowed only if they comply with inlet norms of CETP.</p>

	<b>MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)</b>	<b>From : Oct'18 To : Mar'19</b>
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Sr. No.	Conditions	Compliance Status as on 31-03-2019												
4	Fresh water requirement for the CETP shall be 100 KL/day, which shall be sourced through Gujarat Water Infrastructure Ltd. (GWIL) pipeline from Narmada water supply. No ground water shall be tapped for the project.	<p>Complied.</p> <p>Fresh water requirement for CETP is ranging from 5 to 6 KL/Day, which is sourced through Gujarat Water Infrastructure Ltd. (GWIL) pipeline from Narmada water supply and / or Desalination plant of APSEZ. No ground water is being tapped.</p> <p>Details of water consumption are given as <b>Annexure – 3.</b></p>												
5	The quantity of effluent discharge from the CETP shall not exceed 17000 KL/ Day (17 MLD).	<p>Complied.</p> <p>The average quantity of effluent received in CETP from member units was 158 KL/Day and treated water discharge from the CETP 145 KL/ Day respectively during the compliance period. Present installed capacity of CETP is 2.5 MLD only which is higher than average inflow of effluent from member industry. Details on quantity received from industry and treated water discharge are attached as <b>Annexure – 3.</b></p>												
6	<p>The total quantity of effluent discharge (including industrial effluent and sewage overflow from septic tank – soak pit) from the member units shall not exceed 17000 KL/ Day (17 MLD) and it shall be conveyed through underground pipeline to the CETP for further treatment. The effluent discharge from the CETP member units (cluster or individual unit) shall confirm to the following CETP inlet norms framed by the MUPL:</p> <table><tr><th>Parameter</th><th>CETP inlet norm of MUPL</th></tr><tr><td>pH</td><td>6.5 To 8.5</td></tr><tr><td>Suspended Solids</td><td>800 mg/l</td></tr><tr><td>BOD (3 Days at 27<sup>o</sup>C)</td><td>1000 mg/l</td></tr><tr><td></td><td>2000 mg/l</td></tr><tr><td></td><td>2100 mg/l</td></tr></table>	Parameter	CETP inlet norm of MUPL	pH	6.5 To 8.5	Suspended Solids	800 mg/l	BOD (3 Days at 27 <sup>o</sup> C)	1000 mg/l		2000 mg/l		2100 mg/l	<p>Complied.</p> <p>The average quantity of effluent received in CETP from member units was 158 KL/Day and treated water discharge from the CETP 145 KL/ Day respectively during the compliance period.</p> <p>There are only two member industries of CETP as on date for industrial effluent and effluent is transferred through underground pipeline only. Presently on avg. 145 KL/ Day treated water from CETP is being reused.</p> <p>Monitoring and analysis of CETP inlet wastewater from each industry is carried out regularly through in-house laboratory for the parameters such as pH, TDS, TSS, COD and BOD. Analysis reports are submitted to GPCB every month and proof showing the same is attached as <b>Annexure – 2.</b></p> <p>Sewage is also received from other member units for treatment in CETP and final disposal.</p> <p>List of member units for industrial effluent as well as domestic sewage were submitted to the MoEF &amp; CC along with half yearly compliance report Apr – 2016 to Sep –</p>
Parameter	CETP inlet norm of MUPL													
pH	6.5 To 8.5													
Suspended Solids	800 mg/l													
BOD (3 Days at 27 <sup>o</sup> C)	1000 mg/l													
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	2100 mg/l													

**Status of the conditions stipulated in Environment Clearance**


Sr. No.	Conditions		Compliance Status as on 31-03-2019												
	COD TDS Oil & Grease Phenolic Compounds Cyanides Fluorides Sulphides Ammonical Nitrogen Copper Nickel	20 mg/l 1 mg/l 0.2 mg/l 2 mg/l 2 mg/l 50 mg/l 3 mg/l 3 mg/l	2016 and there is no further change.  MUPL-CETP has also installed Continuous Effluent Monitoring System as per CPCB guidelines for continuous monitoring of pH, TSS, COD, BOD & Ammonical Nitrogen parameters. It is also connected with GPCB as well as CPCB server and details of the same was submitted to the MoEF & CC along with half yearly compliance report April– 2016 to Sep – 2016.												
7	The individual member unit will be required to achieve CETP inlet norms. If required, necessary treatment for removal of metals, ammonical nitrogen and other such parameters will be given by the individual units to meet the CETP inlet norms.		Complied.  Agreement is made with the industry to consider aspect of conformance with the CETP inlet norms. Effluent samples are tested for conformance of inlet norms of CETP as provided in specific condition no. 6 above. Currently two units have agreement to discharge their effluent to CETP. The detail for the same is as below. <table><tr><th>Unit</th><th>ETP Capacity</th><th>Treatment Methodology</th><th>Average Water Discharge</th></tr><tr><td>M/s Dorf ketal Specialty Catalyst Pvt. Ltd.</td><td>100 KLD</td><td>Primary &amp; Secondary Treatment</td><td>84 KLD</td></tr><tr><td>M/s Ahlstrom Fiber Composites India Pvt. Ltd.</td><td>50 KLD</td><td>Primary Treatment</td><td>15 KLD</td></tr></table>	Unit	ETP Capacity	Treatment Methodology	Average Water Discharge	M/s Dorf ketal Specialty Catalyst Pvt. Ltd.	100 KLD	Primary & Secondary Treatment	84 KLD	M/s Ahlstrom Fiber Composites India Pvt. Ltd.	50 KLD	Primary Treatment	15 KLD
Unit	ETP Capacity	Treatment Methodology	Average Water Discharge												
M/s Dorf ketal Specialty Catalyst Pvt. Ltd.	100 KLD	Primary & Secondary Treatment	84 KLD												
M/s Ahlstrom Fiber Composites India Pvt. Ltd.	50 KLD	Primary Treatment	15 KLD												
8	The MUPL will ensure that effluent discharge from member units (cluster or individual unit) complies with the inlet norms of the CETP.		Complied.  The details for the same are provided in specific condition no 6 above.												
9	Domestic waste water shall be discharged into septic tank/ soak pit system by the individual member units and the overflow shall be conveyed to the CETP along with industrial effluent for its treatment. Domestic waste water generated at the CETP		Complied.  Sewage from member industry is collected into collection tank, which is transferred to CETP at average rate of 65 KL/Day through pipeline.  Average generation of domestic wastewater is ranging from 1.0 to 1.5 KL per day at the CETP and the same is treated in the CETP itself along with industrial effluent.												

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	will also be treated in the CETP.																															
10	The MUPL will establish the adequate primary, secondary and tertiary effluent for its treatment facilities to achieve the GPCB norms. The CETP shall be established in modules of 2.5 MLD to achieve the ultimate capacity of 17 MLD with the passage of time depending on the actual requirements as per development of the MPSEZL. The CETP shall be operated regularly and efficiently so that quality of treated effluent from the CETP always meets with the GPCB norms.	<p>Complied.</p> <p>MUPL has established the adequate primary, secondary and tertiary treatment facility to achieve the GPCB norms.</p> <p>Present installed capacity of CETP is 2.5 MLD.</p> <p>Third party analysis of the treated water is being carried out once in a month by NABL and MoEF &amp; CC accredited agency namely M/s. Pollucon Laboratories Pvt. Ltd. Summary of the same for duration from Oct'18 to Mar'19 is mentioned below.</p> <table><tr><th>Parameter</th><th>Unit</th><th>Min</th><th>Max</th><th>Perm. Limit<sup>\$</sup></th></tr><tr><td>pH</td><td>--</td><td>7.09</td><td>7.65</td><td>6.0 – 9.0</td></tr><tr><td>SS</td><td>mg/L</td><td>11</td><td>56</td><td>100</td></tr><tr><td>COD</td><td>mg/L</td><td>72</td><td>156</td><td>250</td></tr><tr><td>BOD</td><td>mg/L</td><td>20</td><td>40</td><td>100</td></tr><tr><td>Ammonical Nitrogen</td><td>mg/L</td><td>10</td><td>18</td><td>50</td></tr></table> <p>\$ Permissible Limits as per CC&amp;A for CETP</p> <p>Please refer <b>Annexure – 4</b> for detailed analysis reports. Approx. INR 20.36 Lakh is spent for all environmental monitoring activities during F.Y. 2018-19.</p> <p>MUPL has also installed Continuous Effluent Monitoring System as per CPCB guidelines for continuous monitoring of pH, TSS, COD, BOD &amp; Ammonical Nitrogen parameters and result of the same is also transferring to regulatory authorities i.e. CPCB &amp; SPCB regularly.</p> <p>GPCB Sample analysis reports are attached as <b>Annexure – 5</b>, which shows that all the parameters are well within the permissible norms.</p>	Parameter	Unit	Min	Max	Perm. Limit <sup>\$</sup>	pH	--	7.09	7.65	6.0 – 9.0	SS	mg/L	11	56	100	COD	mg/L	72	156	250	BOD	mg/L	20	40	100	Ammonical Nitrogen	mg/L	10	18	50
Parameter	Unit	Min	Max	Perm. Limit <sup>\$</sup>																												
pH	--	7.09	7.65	6.0 – 9.0																												
SS	mg/L	11	56	100																												
COD	mg/L	72	156	250																												
BOD	mg/L	20	40	100																												
Ammonical Nitrogen	mg/L	10	18	50																												
11	The treated effluent from the CETP conforming to the GPCB norms shall be utilized for plantation / gardening within the SEZ area of MPSEZL during non-rainy days whereas it shall be	<p>Complied.</p> <p>Average 145 KL/Day treated effluent was used for plantation/gardening within the premises of CETP and other areas of Adani Ports and Special Economic Zone Limited during the compliance period.</p>																														

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	discharged to deep sea through outfall system of MPSEZL having CRZ permission during high rainy days.	
12	Well-designed effluent distribution network with sprinklers / drip pipes shall be provided for proper utilization of treated effluent for plantation / gardening.	Complied. Drip irrigation system is provided for watering the green belt in the vicinity.
13	The CETP shall have and use only one outlet for the discharge of its effluent and no effluent shall be discharged without requisite treatment and without meeting with the GPCB norms. Such outlet shall be kept near the front gate/ entrance of the CETP.	Complied. Treated effluent from CETP is supplied through only one outlet for gardening purpose.  MUPL CETP has installed Continuous Effluent Monitoring System as per CPCB guidelines for continuous monitoring of pH, TSS, COD, BOD & Ammonical Nitrogen parameters. It is also connected with GPCB as well as CPCB server and information for the same was submitted to the MoEF & CC along with half yearly compliance report April- 2016 to Sep - 2016.  Quality of treated effluent from CETP meets with GPCB norms. Refer specific condition No. 10 for test result summery.  Please refer <b>Annexure – 4 &amp; 5</b> showing quality of treated effluent during this compliance period.
14	The MUPL shall instruct and make sure that each contributing member (cluster or individual unit) shall provide a storage tank having at least one day retention time, from where the effluent will go to the CETP for further treatment by pumping through rising main.	Complied.  An agreement is made with the respective units to provide storage facility for retention.  At present the industrial effluent from two units is received for treatment at the CETP. Both the units have two storage tanks of 50 KL each which is sufficient to store the effluent for at least one day.
15	The MUPL shall give time slot to the contributing member units for discharge of effluent and implement a mechanism for ensuring that	Complied.  At present there are only two member industries of CETP and time slot has been given to each industry for discharging their effluent.

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	the member units adhere to the same.	
16	The MUPL shall strictly observe and make sure that every member shall supply entire effluent quantity to the CETP.	Complied. MUPL verifies the data of wastewater generation produced by the member units and matches with the inlet meter reading to make sure the entire effluent quantity is supplied to CETP.
17	The MUPL shall be responsible for proper conveyance of effluent from their member units to the CETP. To distinguish the effluent conveyance pipelines from other pipelines, they should be coated with special colour. Periodical maintenance of effluent conveyance pipelines and valves shall be carried out to avoid any spillage or leakage of the effluent being conveyed to the CETP from the member units.	Complied.  Black coloured HDPE pipeline for effluent conveyance has been provided to transfer effluent from member units.  Daily monitoring of effluent conveyance pipeline and regular maintenance of pump, valve and panel is carried out. Periodical maintenance is carried out to avoid leakage.
18	Magnetic flow meters shall be provided at the inlet and outlet of the CETP as well as ETP outlets of the CETP member units and records for the same shall be maintained and submitted regularly.	Complied.  Magnetic flow meters to maintain the record of quantity of raw effluent and treated effluent have been provided at inlet and outlet of CETP.  Records of quantity received from industry and treated discharge are attached as <b>Annexure – 3</b> .
19	The MUPL shall also install pH sensor solenoid valve with alarm device at the inlet of equalization tanks. Emergency tank shall be provided at the CETP for diverting effluent with the CETP inlet norms, in case of unforeseen circumstances.	Complied.  Online pH meter is provided at CETP inlet, equalization tank and neutralization tank for continuous monitoring of pH.  Equalisation tank having capacity of 1700 KL is capable to take care of unforeseen circumstances.
20	The MUPL shall also install pH sensor with alarm device at final outlet to ensure that	Complied.  MUPL-CETP has also installed Continuous Effluent



**Status of the conditions stipulated in Environment Clearance**

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	effluent being discharge is always neutral.	<p>Monitoring System as per CPCB guidelines for continuous monitoring of pH, TSS, COD, BOD &amp; Ammonical Nitrogen parameters with alarm/alert system in case of exceedance. It is also connected with GPCB as well as CPCB server. Information for the same was submitted to the MoEF &amp; CC along with half yearly compliance report Apr – 2016 to Sep – 2016.</p> <p>However MUPL has also installed lock-arrangement system valves at the effluent discharge outlet of member units to ensure effluent quality within CETP inlet norms. Analysis of effluent is being carried out before discharging to verify that effluent is meeting with GPCB permissible norms or not. The CETP can receive effluent from member unit only after achieving CETP inlet norms. Analysis reports of each member unit is being submitted the GPCB on monthly basis.</p> <p>One equalization tank is kept as standby tank for diverting effluent not meeting with the CETP inlet norms, in case of unforeseen circumstances. A stand-by storage tank of adequate capacity is also provided with member units which is sufficient to store the effluent for at least one day in such circumstances.</p>
21	All the chemicals and nutrients which are required to be added / dosed in any CETP unit shall be added by using "Metering Pumps" only.	<p>Complied.</p> <p>Metering pumps for dosing of chemicals such as Alum; Polyelectrolyte; Lime and HCl are provided with stand by pumps. Photographs showing the same were submitted as part of compliance report for the duration of Apr'17 to Sep'17.</p>
22	The MUPL shall not keep any bypass line or system, or loose or flexible pipe for discharging effluent outside or even for conveying treated or untreated effluent within the CETP premises.	<p>Complied.</p> <p>Treated effluent from CETP is supplied through only one outlet for gardening purpose and no bypass line or system, or loose/flexible pipe are provided for discharging effluent outside or even for conveying treated or untreated effluent within the CETP premises.</p>
23	The MUPL shall provide impervious tanks / HDPE tanks / impervious guard ponds to hold effluent for at least 48 hours in the case of either maintenance of the	<p>Complied.</p> <p>Two nos. of Guard Ponds having RCC Structure with total capacity of 3000 KL for storage are available within CETP to ensure no untreated effluent discharge into environment.</p>


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	CETP or process disturbances and any untreated effluent shall never be discharged into the environment.	
24	In case of power failure, stand- by D.G. Set/s having power generation capacity equivalent to the requirement of power to run the CETP shall be installed, so that the CETP shall always be operated round the clock even in case of power failure.	<p>Complied.</p> <p>D.G. Set having 380 KVA capacity has been provided as stand-by which is equivalent to the power requirement to run CETP.</p>
25	The MUPL will maintain daily log books for the quantity and quality of effluent discharged by the member units, quantity and quality of inflow into the CETP, details of the treatment at each stage of the CETP including the chemicals used. MLSS/ MLVSS & DO concentrations in Aeration Tanks, quantity of sludge extracted from the treatment process, energy consumed in treatment, quantity and quality of effluent utilized for plantation / gardening, quantity and quality of effluent discharged to deep sea through outfall system of MPSEZL etc. Details of the member units failing to comply with the CETP inlet norms shall be submitted to the GPCB on regular basis.	<p>Complied.</p> <p>Log books containing all required information are maintained. A typical copy of logbook is attached here as <b>Annexure – 6</b>.</p> <p>Record of sludge generation and disposal is being maintained. CETP is designed having 2.5 MLD capacity, against that at present we are receiving only avg. 162 KLD effluent from member industries.</p> <p>Last sludge disposal was carried out through co-processing on 31.12.2018 at registered TSDF site as SEPPL, Bhachau. The disposal quantity was 2.14 MT. Manifest copy is attached as <b>Annexure – 7</b>.</p> <p>The sludge generated thereafter is stored in dedicated storage area and will be disposed to approved TSDF site.</p>
26	The MUPL shall set up a full fledged laboratory for collection, analysis of samples to monitor the effluent quality and deploy competent technical staff for	<p>Complied.</p> <p>Well-equipped laboratory having all the infrastructure facility and instruments is provided in CETP.</p> <p>Competent technical staff is deployed for monitoring and</p>




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	the analysis and monitoring purpose.	analysis of environmental parameters.
27	Regular effluent quality monitoring shall be carried out for relevant parameters and the monitored data along with the statistical analysis and interpretation should be submitted to the GPCB on monthly basis.	<p>Complied.</p> <p>Daily analysis data are submitted to GPCB on monthly basis and proof showing the same is attached as <b>Annexure – 2</b>.</p> <p>Third party analysis of the treated water is being carried out once in a month by NABL and MoEF &amp; CC accredited agency namely M/s. Pollucon Laboratories Pvt. Ltd.</p> <p>MUPL has also installed Continuous Effluent Monitoring System as per CPCB guidelines for continuous monitoring of pH, TSS, COD, BOD &amp; Ammonical Nitrogen parameters and result of the same is also transferring to regulatory authorities i.e. CPCB &amp; SPCB regularly.</p> <p>GPCB Sample analysis reports are attached as <b>Annexure – 5</b>, which shows that all the parameters are well within the permissible norms.</p> <p>Also refer Point no. 10 for further details.</p>
28	The company shall also have to submit every month, the analysis reports of the samples of effluent got collected and analysed by one of the recognized laboratories.	<p>Complied.</p> <p>Third party analysis of the treated water is being carried out once in a month by NABL and MoEF &amp; CC accredited agency namely M/s. Pollucon Laboratories Pvt. Ltd. and report of the same is also being submitted to the GPCB every month. Typical proof showing the same is attached as <b>Annexure – 2</b>.</p> <p>Monitoring report for the period from Oct'18 to Mar'19 is attached as <b>Annexure – 4</b>. Approx. INR 20.36 Lakh is spent for all environmental monitoring activities during F.Y. 2018-19.</p> <p>Also refer Point no. 10 &amp; 27 for further details.</p>
29	The third party inspection of the CETP with respect to the compliance of the norms shall be carried out through a reputed institute like NEERI, IIT, etc. once in a year and	<p>Complied.</p> <p>Environment Audit is carried out on six monthly basis through reputed institute approved by GPCB. Soil and ground water quality monitoring is part of Environment Audit Report. Recommendations suggested as per</p>

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	mitigation measures as may be suggested by such an institute shall be implemented in consultation with the Gujarat Pollution Control Board.	Environment Audit Report are being complied. Please refer point no. 1 for further detail upon audit report submission.
30	The MUPL shall maintain accurate records of their member units in respect of quantity of each product manufactured, quantity of water consumption, quality of trade effluent, quantity of effluent generated, booked and supplied to CETP on day to day basis and shall submit the compiled record to the GPCB on monthly basis.	Complied.  Data regarding quantity and quality of effluent generated from member units are submitted to GPCB regularly and proof showing the same is attached as <b>Annexure – 2</b> .
31	Ground water quality shall be monitored on regular basis with piezometer bore wells at suitable locations in consultation with GPCB and its records shall be maintained. The monitored data along with interpretation shall be submitted at least once in six months.	Complied.  Bore-hole has been made at CETP main gate to check ground water quality and water level. No ground water contamination is evident as per the monitored data.  Ground water sampling and analysis report is attached as <b>Annexure – 4</b> .
32	Adequate stack height as per prevailing norms shall be provided to the D.G. Set. The flue gas emission from D.G. Set shall comply with the norms prescribed by the GPCB.	Complied.  At present there is only one D.G. set of having capacity of 380 KVA is used as stand-by. Adequate stack height of 6 meter has been provided to the said D.G. Set. There was no any main power failure during compliance period, so there was no need to operate the D.G. Set during such period.
33	The ambient air quality shall be monitored in and around the CETP area and results shall be submitted to the GPCB. The locations for the ambient air quality monitoring shall be fixed and	Complied.  Ambient Air Quality Monitoring station is established in consultation with GPCB. Third party analysis of the ambient air quality is being carried out on regular basis (twice in a week) by NABL and MoEF & CC accredited agency namely M/s. Pollucon Laboratories Pvt. Ltd.

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Sr. No.	Conditions	Compliance Status as on 31-03-2019																									
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34	The MUPL must strictly comply with the rules and regulations with regards to handling and disposal of hazardous waste in accordance with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, as may be amended from time to time. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.	<p>Complied.</p> <p>MUPL has been granted Authorization vide Order No. AWH – 79311 dated 02.06.2016, Valid up to: 07.04.2021 from GPCB, Gandhinagar. All the hazardous waste generated from premises is being disposed as per Hazardous &amp; Other Waste Rules – 2016.</p> <p>Please refer condition no. 25 for HW disposal details.</p> <p>Membership certificate for disposal of Hazardous waste (SEPPL) is submitted to the MoEF &amp; CC along with half yearly compliance report April – 2016 to Sep – 2016.</p>																									
35	CETP sludge shall be dried, packed and stored in designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	<p>Complied.</p> <p>Generated CETP sludge is dried in sludge drying beds, packed in bags and stored in dedicated hazardous waste storage area having appropriate facilities. Details of the same were submitted along with last EC Compliance report for the period Apr'18 to Sep'18.</p>																									
36	CETP waste shall be disposed at authorized common TSDF facility. The company shall necessary permission of the	<p>Complied.</p> <p>Hazardous waste generated from CETP is being disposed through authorised TSDF facility. MUPL have obtained</p>																									

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	TSDF operator for disposal of CETP sludge.	<p>membership with TSDF operator SEPPL, Bhachau for the same.</p> <p>CETP is designed having 2.5 MLD capacities, against that at present we are receiving only 158 KLD effluents from member industries.</p> <p>Please refer condition no. 25 for HW disposal details.</p> <p>Copy of valid membership certificate submitted to the MoEF &amp; CC along with half yearly compliance report April – 2016 to Sep – 2016 and there is no change further.</p>
37	Discarded containers / drums / bags/ liners shall be either reused or returned back to suppliers or sold to authorized vendors after decontamination.	<p>Complied.</p> <p>Hazardous waste generated from CETP is being disposed through authorised TSDF facility only.</p>
38	Used oil shall be sold to the registered recyclers.	Used Oil and Discarded Containers generation is not frequent in nature. As & when generated, the same will be disposed by selling out to registered recycler / reprocessor.
39	Adequate hand rails shall be provided to all the CETP units for preventing fall of any person in the CETP tanks.	<p>Complied.</p> <p>Adequate hand rail are provided at CETP Tanks for fall protection.</p>
40	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of chemicals. Handling and dosing of the materials shall be done in such a manner that minimal human exposure occurs.	<p>Complied.</p> <p>Safety measures like appropriate hand gloves, safety goggles, safety shoes, reflective jacket are provided. Photographs showing the same were submitted as a part of compliance report for the duration of Apr'17 to Sep'17.</p> <p>Metering pumps for dosing of chemicals such as Alum; Polyelectrolyte; Lime and HCl are provided with stand by pumps to avoid human exposure.</p>
41	All the storage tanks shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls shall be provided to the storage tanks. Closed handling system of chemicals shall be provided.	<p>Complied</p> <p>There are no any chemical storage tanks within CETP Premises. Closed handling system is provided for chemical dosing.</p>
42	Tie up shall be done with nearby health care unit / doctor for seeking immediate	<p>Complied.</p> <p>MUPL CETP is subsidiary unit of Adani Ports and Special</p>

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	medical attention in the case of emergency, regular medical check-up of the workers and keeping its record etc.	Economic Zone Limited. The Occupation Health Centre of APSEZ is accessible in case of emergency or regular medical check-up of workers. In addition, there is also a Multispecialty Hospital within the APSEZ area at a distance of approx. 3 Km from the CETP.															
43	Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.	Complied.  Personal protective equipments are provided to all workers and its usage is ensured and supervised regularly through site in-charge and safety department of APSEZ.															
44	First Aid Box shall be made readily available in adequate quantity.	Complied. First aid box is available in CETP area. OHC of APSEZ maintains first aid box regularly.															
45	Training shall be imparted to all the workers on safety and health aspects of chemicals handling and CETP operations.	Complied. Regularly tool box talk is being conducted at CETP for safety and health aspects of chemicals handling and CETP operations.															
46	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factory Act & Rules.	Complied.  Pre-employment and periodical medical examination is being carried out. Record of the same was submitted as a part of compliance report for the duration of Oct'17 to Mar'18.															
47	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	Not Applicable No hazardous chemicals are transported during the compliance period.															
48	The overall noise level in and around the CETP area and D.G. Set shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed	Complied.  Noise level monitoring is being carried out on monthly basis by NABL and MoEF & CC accredited agency namely M/s. Pollucon Laboratories Pvt. Ltd. Summary of the same for duration from Oct'18 to Mar'19 is mentioned below.  <b>Monitoring Locations &amp; Frequency: 02 (Twice in a week)</b> <table><tr><th>Parameter</th><th>Unit</th><th>Min</th><th>Max</th><th>Perm. Limit</th></tr><tr><td>Day Time</td><td>dB(A)</td><td>49.3</td><td>74.2</td><td>75</td></tr><tr><td>Night Time</td><td>dB(A)</td><td>50.2</td><td>67.3</td><td>70</td></tr></table>	Parameter	Unit	Min	Max	Perm. Limit	Day Time	dB(A)	49.3	74.2	75	Night Time	dB(A)	50.2	67.3	70
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<sup>\*</sup> as per NAAQ standards, 2009

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	under The Environment (Protection) Act, 1986 & Rules.	<p>Please refer compliance condition no. 32 for further details.</p> <p>Monitoring report for the period from Oct'18 to Mar'19 is attached as <b>Annexure – 4</b>. Approx. INR 20.36 Lakh is spent for all environmental monitoring activities during F.Y. 2018-19.</p>
49	The MUPL shall develop green belt within premises as per the CPCB guidelines, preferably with local species, and shall submit an action plan of plantation for next three years to the GPCB.	<p>Complied.</p> <p>APSEZ has developed its own “Dept. of Horticulture” which is taking measures/ steps for terrestrial greening and developed 16.98 hectare of green belt with the density of 192 trees per hectare. Total 3261 trees are planted within CETP premises. So, far APSEZ have developed more than 455 ha. area as greenbelt with plantation more than 8.3 Lacs saplings within the APSEZ area.</p> <p>Details of the green belt development activity done by APSEZ Mundra are attached as <b>Annexure – 8</b>.</p>
<b>B. General Conditions</b>		
50	GPCB will ensure while granting CTE to individual units that no industry of heavy pollution is allowed in such SEZ.	This point is applicable to GPCB.
51	Construction of the proposed CETP should be undertaken meticulously confirming to the existing central / local rules and regulations. All the construction designs/ drawing relating to the proposed construction activities must have approvals of the concerned State Government Department/Agencies.	<p>Already complied.</p> <p>Construction for 2.5 MLD CETP is completed and the same is in operation phase. There is no requirement for additional capacity of CETP as on date. Upon requirement of additional capacity, the new module of CETP will be constructed confirming to the applicable rules and regulations.</p>
52	In the event of the CETP's not functioning as proposed / breakdown of the CETP, the CETP member units shall be immediately intimated to	<p>Point noted and agreed.</p> <p>CETP has functioned as per designed efficiency and meeting with GPCB discharge norms during the entire compliance period. Hence no such event to stop</p>




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	stop discharging the effluent / to shut down their plants immediately. The effluent from the member units shall not be received at CETP until the desired efficiency of the CETP has been achieved.	collecting the effluent is required.
53	If the CETP fails to achieve the GPCB norms at its outlet; the individual units shall provide and operate the Effluent Treatment Plant (ETP) with adequate primary, secondary and tertiary treatment facility to achieve the GPCB norms.	Point noted and agreed.  CETP is functioning with the designed efficiency and meeting with GPCB discharge norms during the entire compliance period.  Individual members have their own ETPs which provides necessary treatment to achieve GPCB norms.
54	The MUPL shall ensure that each & every member renews the agreement on / before expiry of said agreement and shall inform the GPCB about any unit not renewing within stipulated period. The MUPL shall immediately inform the Gujarat Pollution Control Board about termination/ suspension of the CETP membership of any member unit.	Complied.  List of member units was submitted along with EC Compliance report for the period Apr-16 to Sep-16 and there is no further change.  The agreements are renewed before its expiry by the member units.  No event of termination or suspension of the CETP membership has occurred during the compliance period of Oct'18 to Mar'19.
55	The MUPL shall not allow any new member or enhance effluent quantity of existing members unless & until they have prior requisite permissions from competent authorities.	Complied. No new member has joined MUPL for effluent discharge during the compliance period of Oct'18 to Mar'19.  No member has requested for enhancement of effluent quantity during the compliance period of Oct'18 to Mar'19.
56	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Complied. Chemical storage areas and chemical handling areas are provided with Pucca flooring to minimize soil contamination. Photograph showing the same were attached as a part of compliance report submission for the duration of Apr'17 to Sep'17.
57	Good housekeeping shall be maintained within the CETP	Complied. Good housekeeping is being maintained within the CETP

**Status of the conditions stipulated in Environment Clearance**

<b>Sr. No.</b>	<b>Conditions</b>	<b>Compliance Status as on 31-03-2019</b>
	premises. All pipes, valves and drains shall be leak proof. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly. Floor washing shall be admitted in to the effluent collection system for subsequent treatment and disposal.	premises by the dedicated housekeeping staff.  Leakages were attended and recorded in the MIS report of MUPL. Photographs of all the maintenance work done during compliance period of Oct'18 to Mar'19 is attached as <b>Annexure – 9</b> .  No floor washing activity was carried out during the compliance period.
58	During effluent transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	Point noted.  Effluent is being transferred to CETP by dedicated pipeline. No major accidental spillage has occurred during financial this compliance period.
59	Storm water shall not be mixed with the effluent. The storm water drains shall be kept separate and shall remain dry throughout the year except monsoon.	Complied. Effluent is transferred by effluent transfer pipeline while for storm water, a separate storm water drain is provided in CETP which remains dry throughout the year except monsoon.
60	The MUPL shall intimate the GPCB about occurrence of any accident, act or event resulting in discharge of poisonous, noxious or polluting matter or the likelihood of the same into a stream or land or well.	Complied.  No accident, act or event has been occurred resulting in discharge of poisonous, noxious or polluting matter or the likelihood of the same into a stream or land or well during this compliance period.
61	The Environmental Management Cell with suitably qualified staff for implementation of the stipulated environmental safeguards and for monitoring functions shall be setup under the control of the Chief Executive of the company.	Complied.  APSEZ has a well structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan. Allocation of separate budget has also been done. EMC Organogram of APSEZ is attached as <b>Annexure – 10</b> .
62	The funds earmarked for environment protection measures should be maintained in a separate	Complied.  Separate budget for the Environment protection measures is earmarked every year. All environment and























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	account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported	<p>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 1069 lakh. Out of which, Approx. INR 1008 lakh are spent during the FY 2018-19. Detailed breakup of the expenditures for the past 3 years is attached as <b>Annexure – 11</b>.</p>																									
63	The MUPL shall take appropriate community development and welfare program for improving socio-economic environment of villagers in the vicinity of the project site. A separate fund shall be allocated for this purpose.	<p>Complied.</p> <p>The CSR Activities including community development and welfare programs for improving socio-economic environment of villages are planned out at Mundra by Adani Foundation in four core area. Details of the same are as below.</p> <table><tr><th>Area</th><th>Activity</th></tr><tr><td>Community Health</td><td><ul style="list-style-type: none"><li>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 109 types of general and lifesaving medicines are available in these units. Total patient was treated under this scheme during the year 2018-19: <b>19092 Nos. &amp; 22256 Nos. through Rural Clinic</b></li><li>During the year 2018-19, total <b>10161 transactions</b> were done by <b>8599 card holders of 66 villages</b> of Mundra Taluka and they received cash less medical services under this project. The limit for the beneficiary was set to 30000/- within a period of 3 years.</li><li>Total <b>10161 OPDs</b> were given medical treatment in various villages through rural dispensaries.</li><li>During this year, anthropometry study done for <b>6548</b> children. under “<b>Suposhan</b>” Project. Additionally, <b>965</b> FGD were conducted during this year.</li><li>During the year 2018-19, <b>Specialty camps</b> were organized and <b>4384</b> Patients were benefitted.</li></ul><table><tr><th>Project Details</th><th>Beneficiaries (Nos.)</th><th>Remarks</th></tr><tr><td>Mobile Van</td><td>19092</td><td>OPD Numbers</td></tr><tr><td>Rural Clinic</td><td>22256</td><td>OPD Numbers</td></tr><tr><td>Senior Citizen</td><td>10161</td><td>Transactions</td></tr><tr><td>Medical Camps</td><td>4384</td><td>Patients</td></tr><tr><td>Awareness Sessions</td><td>987</td><td>Participants</td></tr><tr><td>Needy Patients Support</td><td>1022</td><td>OPD/IPD</td></tr></table></td></tr></table>	Area	Activity	Community Health	<ul style="list-style-type: none"><li>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 109 types of general and lifesaving medicines are available in these units. Total patient was treated under this scheme during the year 2018-19: <b>19092 Nos. &amp; 22256 Nos. through Rural Clinic</b></li><li>During the year 2018-19, total <b>10161 transactions</b> were done by <b>8599 card holders of 66 villages</b> of Mundra Taluka and they received cash less medical services under this project. The limit for the beneficiary was set to 30000/- within a period of 3 years.</li><li>Total <b>10161 OPDs</b> were given medical treatment in various villages through rural dispensaries.</li><li>During this year, anthropometry study done for <b>6548</b> children. under “<b>Suposhan</b>” Project. Additionally, <b>965</b> FGD were conducted during this year.</li><li>During the year 2018-19, <b>Specialty camps</b> were organized and <b>4384</b> Patients were benefitted.</li></ul> <table><tr><th>Project Details</th><th>Beneficiaries (Nos.)</th><th>Remarks</th></tr><tr><td>Mobile Van</td><td>19092</td><td>OPD Numbers</td></tr><tr><td>Rural Clinic</td><td>22256</td><td>OPD Numbers</td></tr><tr><td>Senior Citizen</td><td>10161</td><td>Transactions</td></tr><tr><td>Medical Camps</td><td>4384</td><td>Patients</td></tr><tr><td>Awareness Sessions</td><td>987</td><td>Participants</td></tr><tr><td>Needy Patients Support</td><td>1022</td><td>OPD/IPD</td></tr></table>	Project Details	Beneficiaries (Nos.)	Remarks	Mobile Van	19092	OPD Numbers	Rural Clinic	22256	OPD Numbers	Senior Citizen	10161	Transactions	Medical Camps	4384	Patients	Awareness Sessions	987	Participants	Needy Patients Support	1022	OPD/IPD
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Sr. No.	Conditions	Compliance Status as on 31-03-2019			
			Shakti Raksha Project	624	Breast n cervix Cancer
			Dialysis	5	Patients (2 times a week)
			Suposhan	17025	Mundra and Bitta
	Sustainable Livelihood Fisher folk –	<ul style="list-style-type: none"> <li>Average <b>123</b> KL of water was supplied to <b>1086</b> households from different settlements on a daily basis under Machhimar Shudhh Jal Yojana.</li> <li>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.</li> <li>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!</li> <li>RTG Crane Operator: <b>03 Fisherman Youth</b></li> <li>Dori Work &amp; Mud Work Training: <b>65 Women</b></li> <li>Mangrove Plantation, moss cleaning, etc.: <b>6261 Man-days.</b></li> <li>In addition to this, employment worth of <b>35787 man-days</b> 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.</li> <li>Total average <b>560 fishermen</b> were benefitted by Mobile Dispensary during last half year. Adani Foundation has extended financial assistance to more than <b>114 financially challenged patients</b> from the Fisher Folk Community in case of medical urgency during this year.</li> <li>The project for the senior citizens is popularly known as Vadil Swasthya Yojana and till date <b>350 senior citizens</b> from fisher folk community are enrolled in the scheme.</li> </ul> <p><b><u>Fisherman Amenities work</u></b></p> <ul style="list-style-type: none"> <li>391 Students : Education Support</li> <li>134 Stunners : Adani Vidya Mandir</li> <li>16 Fisherman : Alternate livelihood</li> <li>78 Fisherwomen : Linkages for schemes</li> <li>1312 Fisherman : Community Engagement</li> <li>1086 Fisherman : Potable water provision</li> <li>6261 Mandays : Mangroves Plantation</li> <li>231 Fisherman : Capacity Building</li> </ul>			
	Education	<ul style="list-style-type: none"> <li>Adani foundation adopted <b>17 government school</b> located at Mundra Taluka under the project 'UTTHAN' a drive of quality education.</li> <li>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 <b>62 villages of Mundra Taluka, 3 villages of in Anjar taluka, YMC school, AVMB and two villages of Mandvi Taluka (118 Schools)</b> every year on an average <b>2550 to 2700</b> children gets enrolled in 1st std in Taluka <b>For 2018-2019 total 2300 children</b> got enrolled &amp; Adani foundation provided the "Enrollment kit" to all new enrollee in Taluka</li> </ul>			

	<b>MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)</b>	<b>From : Oct'18 To : Mar'19</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

Sr. No.	Conditions	Compliance Status as on 31-03-2019
		<ul style="list-style-type: none"> <li>Total <b>3270 educational institutes</b> has visited Adani Port, Adani Power &amp; Adani Wilmar and <b>236032 beneficiaries</b> of the project till date and <b>33932 beneficiaries</b> during current year.</li> <li>Along with quality education, the school also focuses on providing nutritious food, uniforms and other services to the children for free. Currently, <b>387 students</b>, from Std. 1 to Std. 10 are studying in the Adani Vidya Mandir. Out of these <b>134 children</b> come from the fisher folk community.</li> </ul> <p style="text-align: center;"><b>Beneficiaries Details</b></p> <ul style="list-style-type: none"> <li> 2598 Students : 17 Schools Utthan</li> <li> 2300 Enrollment Kit : 118 Schools</li> <li> 704 Students : Dignity of Workforce</li> <li> 345 Mothers : Mother's meet</li> <li> 5542 Students : 116 Institute Udaan</li> <li> 387 Students : Adani Vidya Mandir</li> <li> 206 Teachers : Guruvandana- I,II,III,IV</li> </ul>
	Rural Infrastructure	<ul style="list-style-type: none"> <li>Under Dignity of Drivers Project, Adani Foundation has constructed Resting Shed for Drivers entering in SEZ Premises. Total <b>50 beds</b> are constructed, drinking water and sanitation plus recreational – TV Facilities.</li> <li>Adani Foundation has constructed <b>45 Toilet block</b> and proper bathing place for labours.</li> <li><b>Work Completed</b></li> <li> Road repairing various vasahat</li> <li> Open shed at Juna Bandar</li> <li> Sand Filling plot at JUNA BANDAR</li> <li> Concrete Step ladder at Juna Bandar</li> <li> House construction at Shekhadia</li> <li> Two approach road 5000 meter Zarpara Fishermen and 5000 meter Luni Pagadiya</li> <li> Drinking water storage tank 5000 ltr capacity bavdi Bandar -2, Juna Bandar -2, Kutdi Bandar -1</li> <li> water pipe line installation at Wandi village 2000meter.</li> <li> Basic amenities at Rampar Village Paver block 6000 LTR Storage tank and Boundary wall at community place.</li> <li> Additional civil work in community hall</li> <li> Open shed Gundiya</li> <li> Boundary wall in common place at Tragadi.</li> </ul>
	Skill Development	<ul style="list-style-type: none"> <li>Soft skill training – 362 Nos.</li> <li>Technical Training – 1457 Nos.</li> </ul>
		<p>Budget for CSR Activity for the FY 2018-19 is to the tune of INR 1697 lakh. Out of which, Approx. INR 1624 lakh are spent during the year.</p> <p>Details of CSR activities carried out by Adani Foundation for Mundra and surrounding area is attached as <b>Annexure – 12.</b></p>
64	The MUPL shall also comply with any additional condition	Point noted.

	<b>MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)</b>	<b>From : Oct'18 To : Mar'19</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

<b>Sr. No.</b>	<b>Conditions</b>	<b>Compliance Status as on 31-03-2019</b>
	that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	
65	No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF/ SEIAA, as the case may be. In case of deviations or alterations in the project proposal from those submitted to MoEF/ SEIAA/ SEAC for clearance, a fresh reference shall be made to the SEIAA/ SEAC to assess the adequacy of imposed and to add additional environmental protection measures required, if any.	<p>Point noted.</p> <p>Considering existing scenario, at present CETP having 2.5 MLD capacity only installed against total granted capacity of 17.0 MLD. Capacity of the same will be expanded on later stage as per requirement.</p> <p>No expansion or modifications in the plant has been carried out during this financial year of 2018-19.</p>
66	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	<p>Complied.</p> <p>Please refer point no. 62 for details regarding the same.</p>
67	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of clearance	<p>Already complied.</p> <p>Typical copy of advertisement given in newspaper was submitted as a part of compliance report for the duration of Apr'17 to Sep'17.</p>

**Status of the conditions stipulated in Environment Clearance**

Sr. No.	Conditions	Compliance Status as on 31-03-2019																					
	letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.																						
68	It shall be mandatory for the project management to submit half-yearly compliance report of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1 <sup>st</sup> June and 1 <sup>st</sup> December of each calendar year.	<p>Complied.</p> <p>Compliance report of EC conditions is uploaded regularly. Last compliance report including results of monitoring data for the period of Apr'18 to Sep'18 was submitted to Regional Office of MoEF&amp;CC @ Bhopal, Zonal Office of CPCB @ Baroda, GPCB @ Gandhinagar &amp; Gandhidham and SEIAA, Gandhinagar vide our letter dated 23.11.2018. Copy of the same is also available on our web site <a href="https://www.adaniports.com/ports-downloads">https://www.adaniports.com/ports-downloads</a>.</p> <p>A soft copy of the same was also submitted through e-mail on 30.11.2018 to all the authorities. Please refer below for the details regarding past six compliance submissions.</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>Oct'15 to Mar'16</td><td>30.05.2016</td></tr> <tr> <td>2</td><td>Apr'16 to Sep'16</td><td>01.12.2016</td></tr> <tr> <td>3</td><td>Oct'16 to Mar'17</td><td>30.05.2017</td></tr> <tr> <td>4</td><td>Apr'17 to Sep'17</td><td>01.12.2017</td></tr> <tr> <td>5</td><td>Oct'17 to Mar'18</td><td>29.05.2018</td></tr> <tr> <td>6</td><td>Apr'18 to Sep'18</td><td>30.11.2018</td></tr> </tbody> </table>	Sr. no.	Compliance period	Date of submission	1	Oct'15 to Mar'16	30.05.2016	2	Apr'16 to Sep'16	01.12.2016	3	Oct'16 to Mar'17	30.05.2017	4	Apr'17 to Sep'17	01.12.2017	5	Oct'17 to Mar'18	29.05.2018	6	Apr'18 to Sep'18	30.11.2018
Sr. no.	Compliance period	Date of submission																					
1	Oct'15 to Mar'16	30.05.2016																					
2	Apr'16 to Sep'16	01.12.2016																					
3	Oct'16 to Mar'17	30.05.2017																					
4	Apr'17 to Sep'17	01.12.2017																					
5	Oct'17 to Mar'18	29.05.2018																					
6	Apr'18 to Sep'18	30.11.2018																					
69	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<p>Complied.</p> <p>The stipulated norms made by GPCB are followed. All required data regarding to water, hazardous waste emission load and energy consumption are submitted to GPCB by Patrak submission on monthly basis.</p>																					
70	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned	Already complied.																					

	<b>MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)</b>	<b>From : Oct'18 To : Mar'19</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

<b>Sr. No.</b>	<b>Conditions</b>	<b>Compliance Status as on 31-03-2019</b>
	authorities and the date of start of project.	
71	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Point noted.
72	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, interalia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Act, 1991 along with their amendments and rules.	Point noted.
73	This environmental clearance is valid for five years from the date of issue.	Point noted.

# **ANNEXURE – 1**



Env Cell/MUPL/CETP/EAR/2019/01

Date: 01.01.2019

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

**Subject:** Submission of Environmental Audit Report of our CETP (MUPL) for the period of 01.04.2018 to 30.09.2018.

**Reference:** CC&A Order No. AWH-79311 dated 02/06/2016, GPCB ID: 10605

Dear Sir,

With reference to the above stated and reference, please find enclosed environmental audit report for the half year ending on 30<sup>th</sup> September, 2018. Fees for environment audit have already been done through RTGS / NEFT and details of the same are as below.

Name of Industry	:	MPSEZ Utilities Pvt. Ltd. (MUPL)
Address of the Industry	:	S. No. / Plot No. 141 (Part) Village & Taluka: Mundra, Dist: Kutch - 370421.
Activity	:	Common Effluent Treatment Plant (2.5 MLD Capacity)
EC No.	:	SEIAA/GUJ/EC/7(h)/43/2010 dated 20.02.2010
CC&A Order No.	:	AWH-79311 dated 02.06.2016, valid up to 07.04.2021
UTR No.	:	AXISCN0026403482, dated 28.12.2018
Bank Name	:	Axis Bank Ltd.
Total Amount	:	Rs. 20,000/- (INR Twenty Thousand only)
Pay to	:	Gujarat Pollution Control Board, Gandhinagar

Kindly accept and acknowledge the same.

Thanking you.

For, MPSEZ Utilities Pvt. Ltd.

Authorized Signatory

**Encl:**

- Three copies of Environmental Audit Report (EAR)
- Payment Advice (INR 20,000/-)

MPSEZ Utilities Pvt Ltd  
Adani House  
Nr Mithakhali Circle, Navrangpura  
Ahmedabad 380 009  
Gujarat, India  
CIN: U45209GJ2007PTC051323

Tel +91 79 2555 5801  
Fax +91 79 2555 6490  
info@adani.com  
www.adani.com

*me*  
09/01/19  
Gujarat Pollution Control Board  
Sector No. 10 A,  
Gandhinagar - 382 010



# **ANNEXURE – 2**

Env Cell/MUPL/CETP/AR/2019/08

Date: 04.04.2019

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

**Sub.:** Submission of Monthly Analysis Reports of Industrial and Sewage effluent of units connected with CETP operated by MPSEZ Utilities Pvt. Ltd.

**Ref.:** CC&A Order No. AWH-79311, GPCB ID: 10605

Dear Sir,

With reference to the above stated subject, please find enclosed monthly analysis reports of Industrial and Sewage effluent received from following units at CETP for the month of March-2019.

Sr. No.	Unit Name	Remarks
1.	M/s. Dorf Ketal Chemicals India Private Limited.	Industrial
2.	M/s. Ahlstrom Fiber Composites India Pvt. Ltd.	Industrial
3.	M/s SKAPS Industries India (Pvt) Ltd. (Unit-I)	Sewage
4.	M/s SKAPS Industries India (Pvt) Ltd. (Unit-II)	Sewage
5.	M/s Mundra SEZ Textile And Apparel Park Pvt. Ltd.	Sewage
6.	M/s. GSPC LNG Ltd.	Sewage

The reports are submitted here-with in view of the condition no. 4 of CC&A order granted by GPCB vide their letter no. PC/CCA-Kutch-644(2)/GPCB ID: 10605/364534 dated 30<sup>th</sup> July, 2016.

Kindly accept and acknowledge the same.

Yours Faithfully,

For, MPSEZ Utilities Pvt. Ltd.

Authorized Signatory

Cc To:

Regional Officer, Regional Office, Gujarat Pollution Control Board,  
Gandhidham.

## Analysis Report (CETP Inlet)

M/s Dorf Ketel Speciality Catalyst Pvt. Ltd.

Mar-19

Sr. No.	DATE	Start rdg.	Diff (KL)	PH	TDS	SS	COD	BOD	Chloride
				6.5-8.5	2100	800	2000	1000	1000
					mg/l	mg/l	mg/l	mg/l	mg/l
1	1-Mar-19	149186	83	7.62	1333	131	363	121	692
2	2-Mar-19	149269	84	7.74	1349	96	386	129	677
3	3-Mar-19	149353	83	7.67	1354	108	416	139	686
4	4-Mar-19	149436	84	7.81	1324	106	396	132	790
5	5-Mar-19	149520	83	7.74	1374	75	335	112	716
6	6-Mar-19	149603	84	7.84	1405	88	420	140	722
7	7-Mar-19	149687	83	7.72	1381	104	478	159	754
8	8-Mar-19	149770	84	7.80	1404	104	443	148	761
9	9-Mar-19	149854	83	7.67	1380	112	460	153	696
10	10-Mar-19	149937	84	7.70	1360	103	456	152	670
11	11-Mar-19	150021	83	7.93	1354	86	434	145	654
12	12-Mar-19	150104	84	7.78	1438	92	474	158	677
13	13-Mar-19	150188	83	7.84	1454	60	350	117	664
14	14-Mar-19	150271	84	7.29	1272	55	328	109	737
15	15-Mar-19	150355	83	7.41	1280	54	344	115	717
16	16-Mar-19	150438	84	7.48	1311	74	368	123	720
17	17-Mar-19	150522	83	7.68	1441	66	410	137	734
18	18-Mar-19	150605	84	7.92	1582	59	424	141	744
19	19-Mar-19	150689	83	7.80	1401	76	438	146	735
20	20-Mar-19	150772	84	7.78	1388	106	497	166	748
21	21-Mar-19	150856	83	7.52	1398	98	480	160	754
22	22-Mar-19	150939	84	7.46	1408	120	512	171	732
23	23-Mar-19	151023	83	7.68	1422	114	550	183	798
24	24-Mar-19	151106	84	7.54	1445	101	477	159	780
25	25-Mar-19	151190	83	7.70	1438	118	491	164	770
26	26-Mar-19	151273	84	8.08	1356	120	484	161	781
27	27-Mar-19	151357	83	8.10	1442	110	434	145	754
28	28-Mar-19	151440	84	8.14	1418	177	470	157	742
29	29-Mar-19	151524	83	7.86	1442	160	432	144	768
30	30-Mar-19	151607	84	7.98	1340	129	389	130	772
31	31-Mar-19	151691	83	7.64	1377	130	410	137	784
32	1-Apr-19	151774							
			2588						

For

N.P. Rathod

MPSEZ Utilities Pvt Ltd



## Analysis Report (CETP Inlet)

M/s Ahlstrom Fiber Composites India Pvt. Ltd.

Mar-19

Sr. No.	DATE	Start rdg.	Diff (KL)	PH	TDS	SS	COD	BOD	Chloride
				6.5-8.5	2100	800	2000	1000	1000
					mg/l	mg/l	mg/l	mg/l	mg/l
1	1-Mar-19	29515	0	6.81	1777	186	661	220	772
2	2-Mar-19	29515	0	6.91	1681	211	642	214	819
3	3-Mar-19	29515	15	6.96	1705	181	690	230	831
4	4-Mar-19	29530	0	7.05	1761	174	654	218	790
5	5-Mar-19	29530	0	6.91	1755	205	724	241	780
6	6-Mar-19	29530	0	7.10	1761	212	730	243	767
7	7-Mar-19	29530	0	7.00	1797	284	785	262	798
8	8-Mar-19	29530	0	6.94	1705	254	745	248	818
9	9-Mar-19	29530	0	6.85	1754	230	722	241	831
10	10-Mar-19	29530	15	6.93	1712	248	735	245	800
11	11-Mar-19	29545	0	7.10	1738	190	750	250	786
12	12-Mar-19	29545	15	6.96	1720	224	789	263	753
13	13-Mar-19	29560	0	7.00	1761	211	740	247	770
14	14-Mar-19	29560	0	6.88	1552	205	684	228	800
15	15-Mar-19	29560	0	6.91	1425	186	672	224	793
16	16-Mar-19	29560	0	7.05	1527	205	694	231	810
17	17-Mar-19	29560	0	6.86	1504	210	688	229	821
18	18-Mar-19	29560	0	6.81	1481	218	651	217	780
19	19-Mar-19	29560	0	6.92	1429	213	670	223	799
20	20-Mar-19	29560	0	7.00	1567	177	615	205	810
21	21-Mar-19	29560	0	6.92	1520	238	696	232	780
22	22-Mar-19	29560	0	6.80	1474	242	734	245	828
23	23-Mar-19	29560	0	6.97	1480	231	720	240	832
24	24-Mar-19	29560	0	6.86	1505	217	689	230	816
25	25-Mar-19	29560	15	6.90	1544	220	705	235	848
26	26-Mar-19	29575	0	7.10	1520	234	690	230	820
27	27-Mar-19	29575	15	6.91	1492	228	686	229	839
28	28-Mar-19	29590	15	7.02	1564	242	715	238	804
29	29-Mar-19	29605	15	6.99	1640	230	616	205	780
30	30-Mar-19	29620	0	7.18	1534	204	579	193	817
31	31-Mar-19	29620	0	6.86	1594	215	608	203	828
32	1-Apr-19	29620							
			105						

For

N.P. Rathod

MPSEZ Utilities Pvt Ltd

## Analysis Report (CETP)

M/s SKAPS Industries India (Pvt) Ltd. (Unit-I)

Mar-19

Sr. No.	DATE	Start rdg.	Diff (KL)	PH	TDS	SS	COD	BOD
				6.5-8.5	2100	800	2000	1000
					mg/l	mg/l	mg/l	mg/l
1	1-Mar	-	-	8.14	1705	357	745	248
2	2-Mar	-	-	-	-	-	-	-
3	3-Mar	-	-	-	-	-	-	-
4	4-Mar	-	-	-	-	-	-	-
5	5-Mar	-	-	-	-	-	-	-
6	6-Mar	-	-	-	-	-	-	-
7	7-Mar	-	-	-	-	-	-	-
8	8-Mar	-	-	8.03	1764	368	759	253
9	9-Mar	-	-	-	-	-	-	-
10	10-Mar	-	-	-	-	-	-	-
11	11-Mar	-	-	-	-	-	-	-
12	12-Mar	-	-	-	-	-	-	-
13	13-Mar	-	-	-	-	-	-	-
14	14-Mar	-	-	-	-	-	-	-
15	15-Mar	-	-	8.06	1861	361	791	264
16	16-Mar	-	-	-	-	-	-	-
17	17-Mar	-	-	-	-	-	-	-
18	18-Mar	-	-	-	-	-	-	-
19	19-Mar	-	-	-	-	-	-	-
20	20-Mar	-	-	-	-	-	-	-
21	21-Mar	-	-	-	-	-	-	-
22	22-Mar	-	-	8.12	1785	332	717	239
23	23-Mar	-	-	-	-	-	-	-
24	24-Mar	-	-	-	-	-	-	-
25	25-Mar	-	-	-	-	-	-	-
26	26-Mar	-	-	-	-	-	-	-
27	27-Mar	-	-	-	-	-	-	-
28	28-Mar	-	-	-	-	-	-	-
29	29-Mar	-	-	7.96	1808	340	789	263
30	30-Mar	-	-	-	-	-	-	-
31	31-Mar	-	-	-	-	-	-	-

Note: Analysis shown as per sampling done by CETP on weekly basis, whether effluent was discharged or not by unit to CETP.

For

N.P. Rathod

MPSEZ Utilities Pvt Ltd

Analysis Report (CETP)

M/s SKAPS Industries India, (Pvt) Ltd. (Unit-II)

Mar-19

Sr. No.	DATE	Start rdg.	Diff (KL)	PH	TDS	SS	COD	BOD
				6.5-8.5	2100 mg/l	800 mg/l	2000 mg/l	1000 mg/l
1	1-Mar	-	-	8.16	1840	436	865	288
2	2-Mar	-	-	-	-	-	-	-
3	3-Mar	-	-	-	-	-	-	-
4	4-Mar	-	-	-	-	-	-	-
5	5-Mar	-	-	-	-	-	-	-
6	6-Mar	-	-	-	-	-	-	-
7	7-Mar	-	-	-	-	-	-	-
8	8-Mar	-	-	8.04	1812	449	824	275
9	9-Mar	-	-	-	-	-	-	-
10	10-Mar	-	-	-	-	-	-	-
11	11-Mar	-	-	-	-	-	-	-
12	12-Mar	-	-	-	-	-	-	-
13	13-Mar	-	-	-	-	-	-	-
14	14-Mar	-	-	-	-	-	-	-
15	15-Mar	-	-	8.22	1861	420	888	296
16	16-Mar	-	-	-	-	-	-	-
17	17-Mar	-	-	-	-	-	-	-
18	18-Mar	-	-	-	-	-	-	-
19	19-Mar	-	-	-	-	-	-	-
20	20-Mar	-	-	-	-	-	-	-
21	21-Mar	-	-	-	-	-	-	-
22	22-Mar	-	-	8.18	1859	459	843	281
23	23-Mar	-	-	-	-	-	-	-
24	24-Mar	-	-	-	-	-	-	-
25	25-Mar	-	-	-	-	-	-	-
26	26-Mar	-	-	-	-	-	-	-
27	27-Mar	-	-	-	-	-	-	-
28	28-Mar	-	-	-	-	-	-	-
29	29-Mar	-	-	8.20	1820	484	965	322
30	30-Mar	-	-	-	-	-	-	-
31	31-Mar	-	-	-	-	-	-	-

Note: Analysis shown as per sampling done by CETP on weekly basis, whether effluent was discharged or not by unit to CETP.

For

*N.P. Rathod*

MPSEZ Utilities Pvt Ltd



# Analysis Report (CETP)

M/s Mundra SEZ Textile And Apparel Park Pvt. Ltd.

Mar-19

Sr. No.	DATE	Start rdg.	Diff (KL)	PH	TDS	SS	COD	BOD
				6.5-8.5	2100	800	2000	1000
					mg/l	mg/l	mg/l	mg/l
1	1-Mar	35309.6	32.0	8.17	1768	316	648	216
2	2-Mar	35341.6	31.8	-	-	-	-	-
3	3-Mar	35373.4	32.4	-	-	-	-	-
4	4-Mar	35405.8	30.5	-	-	-	-	-
5	5-Mar	35436.3	31.5	-	-	-	-	-
6	6-Mar	35467.8	31.8	-	-	-	-	-
7	7-Mar	35499.6	32.2	-	-	-	-	-
8	8-Mar	35531.8	32.1	8.16	1812	362	550	183
9	9-Mar	35563.9	30.2	-	-	-	-	-
10	10-Mar	35594.1	32.6	-	-	-	-	-
11	11-Mar	35626.7	31.6	-	-	-	-	-
12	12-Mar	35658.3	32.8	-	-	-	-	-
13	13-Mar	35691.1	32.4	-	-	-	-	-
14	14-Mar	35723.5	31.6	-	-	-	-	-
15	15-Mar	35755.1	32.8	8.20	1808	412	788	263
16	16-Mar	35787.9	33.0	-	-	-	-	-
17	17-Mar	35820.9	31.3	-	-	-	-	-
18	18-Mar	35852.2	32.0	-	-	-	-	-
19	19-Mar	35884.2	32.2	-	-	-	-	-
20	20-Mar	35916.4	32.6	-	-	-	-	-
21	21-Mar	35949.0	31.5	-	-	-	-	-
22	22-Mar	35980.5	30.5	8.08	1761	390	695	232
23	23-Mar	36011.0	30.7	-	-	-	-	-
24	24-Mar	36041.7	31.7	-	-	-	-	-
25	25-Mar	36073.4	32.8	-	-	-	-	-
26	26-Mar	36106.2	32.7	-	-	-	-	-
27	27-Mar	36138.9	31.8	-	-	-	-	-
28	28-Mar	36170.7	32.2	-	-	-	-	-
29	29-Mar	36202.9	33.4	8.2	1725	356	660	220
30	30-Mar	36236.3	30.0	-	-	-	-	-
31	31-Mar	36266.3	30.8	-	-	-	-	-
32	1-Apr	36297.1						
			987.5					

Note: Analysis shown as per sampling done by CETP on weekly basis, whether effluent was discharged or not by unit to CETP.

For

*N.P. Rathod*

MPSEZ Utilities Pvt Ltd

Analysis Report (CETP)  
M/s GSPC LNG Ltd.

Mar-19

Sr. No.	Date	Tanker No.	Received in KL	PH	TDS	SS	COD	BOD	Chloride	Remarks
				6.5-8.5	2100	800	2000	1000	1000	
					mg/l	mg/l	mg/l	mg/l	mg/l	
1	1-Mar	-	-	-	-	-	-	-	-	-
2	2-Mar	-	-	-	-	-	-	-	-	-
3	3-Mar	-	-	-	-	-	-	-	-	-
4	4-Mar	-	-	-	-	-	-	-	-	-
5	5-Mar	-	-	-	-	-	-	-	-	-
6	6-Mar	-	-	-	-	-	-	-	-	-
7	7-Mar	-	-	-	-	-	-	-	-	-
8	8-Mar	-	-	-	-	-	-	-	-	-
9	9-Mar	-	-	-	-	-	-	-	-	-
10	10-Mar	-	-	-	-	-	-	-	-	-
11	11-Mar	-	-	-	-	-	-	-	-	-
12	12-Mar	-	-	-	-	-	-	-	-	-
13	13-Mar	-	-	-	-	-	-	-	-	-
14	14-Mar	-	-	-	-	-	-	-	-	-
15	15-Mar	-	-	-	-	-	-	-	-	-
16	16-Mar	-	-	-	-	-	-	-	-	-
17	17-Mar	-	-	-	-	-	-	-	-	-
18	18-Mar	-	-	-	-	-	-	-	-	-
19	19-Mar	-	-	-	-	-	-	-	-	-
20	20-Mar	-	-	-	-	-	-	-	-	-
21	21-Mar	-	-	-	-	-	-	-	-	-
22	22-Mar	-	-	-	-	-	-	-	-	-
23	23-Mar	-	-	-	-	-	-	-	-	-
24	24-Mar	-	-	-	-	-	-	-	-	-
25	25-Mar	-	-	-	-	-	-	-	-	-
26	26-Mar	-	-	-	-	-	-	-	-	-
27	27-Mar	-	-	-	-	-	-	-	-	-
28	28-Mar	-	-	-	-	-	-	-	-	-
29	29-Mar	-	-	-	-	-	-	-	-	-
30	30-Mar	-	-	-	-	-	-	-	-	-
31	31-Mar	-	-	-	-	-	-	-	-	-
			0.00							

For

*N. P. Rathod*

MPSEZ Utilities Pvt Ltd



Env Cell/MUPL/CETP/AR/2019/09

Date: 06.04.2019

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

**Subject:** Submission of Monthly Analysis Reports of CETP at Mundra.

**Reference:** CC&A Order No. AWH-79311, GPCB ID: 10605

Dear Sir,

With reference to the above stated subject, please find enclosed monthly analysis reports of inlet & outlet of CETP, Ambient Air Quality and Noise Quality as per Annexure - I for the month of March-2019.

The reports are submitted in view of the condition no. 33 of CC&A order granted by GPCB vide their letter no. PC/CCA-Kutch-644(2)/GPCB ID: 10605/364534 dated 30<sup>th</sup> July, 2016 and condition no. 33 of EC granted by SEIAA, Gandhinagar vide their letter no. SEIAA/GUJ/EC/7(h)/43/210 dated 20<sup>th</sup> February, 2010.

Kindly accept and acknowledge the same.

Yours Faithfully,

For, MPSEZ Utilities Pvt. Ltd.

**Authorized Signatory**

Cc To:

**Regional Officer,** Regional Office, Gujarat Pollution Control Board,  
Gandhidham.

25-4-19  
Received  
Gujarat Pollution Control Board  
Regional Office  
Kutch (East)

## ANNEXURE – I

## List of CETP Monthly Monitoring Reports for March 2019:

Sr. No.	Date of Sampling	Type of Sample	Location of Sampling
1	20/03/2019	CETP Inlet	CETP
2	20/03/2019	CETP Outlet	CETP
3	04/03/2019	Ambient Air	Near CETP
	06/03/2019	Ambient Air	Near CETP
	11/03/2019	Ambient Air	Near CETP
	13/03/2019	Ambient Air	Near CETP
	18/03/2019	Ambient Air	Near CETP
	20/03/2019	Ambient Air	Near CETP
	25/03/2019	Ambient Air	Near CETP
	27/03/2019	Ambient Air	Near CETP
4	22/03/2019	Noise (Day Time)	CETP
5	22/03/2019 & 23/03/2019	Noise (Night Time)	CETP

N. P. Rathod



## TEST REPORT

QR/5.10/01

Customer's Name and Address :

Page: 1 of 1

M/S. MPSEZ UTILITIES PVT LTD (MUPL),  
SURVEY NO/PLOT NO. 141 (PART),  
VILLAGE - MUNDRA, TALUKA - MUNDRA,  
DIST - KUTCH - 370421

Test Report No. : PL/AM 0156  
Issue Date : 04/04/2019  
Customer's Ref. : As Per W.O

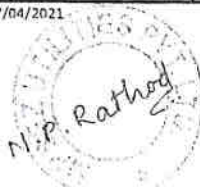
Description of Sample : Water Sample (CETP Inlet)  
Sampling Date : 20/03/2019 Quantity/No. of Samples : 02 Lit/One  
Sampling By : Pollucon Laboratories Pvt. Ltd. Sampling Procedure : Grab  
Sample Receipt Date : 22/03/2019 Lab ID : AM/1903/70  
Packing/ Seal : Sealed Test Parameters : As per table  
Date of Starting of Test : 22/03/2019 Date of Completion : 31/03/2019

### RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULTS	GPCB Permissible Limit CETP Inlet*	TEST METHOD
			CETP INLET		
1	pH	--	7.26	6.5 to 8.5	IS3025(P11)
2	Temperature	°C	30.9	--	IS3025(P9)
3	Colour	Co-pt	120	100	IS3025(P4)
4	Total Suspended Solids	mg/L	118	800	IS3025(P17)
5	Oil & Grease	mg/L	8.4	20	APHA(22 <sup>nd</sup> Ed)5520D
6	Phenolic Compound	mg/L	BDL*	1	IS3025(P43)
7	Fluorides	mg/L	0.75	2	APHA(22 <sup>nd</sup> Ed) 4500 F D SPANDS
8	Iron as Fe	mg/L	0.25	3	AAS APHA(22 <sup>nd</sup> Ed)3111 B
9	Zinc as Zn	mg/L	0.18	15	AAS APHA(22 <sup>nd</sup> Ed)3111 B
10	Trivalent Chromium	mg/L	0.072	2	AAS APHA(22 <sup>nd</sup> Ed)3111 B
11	Sulphide as S	mg/L	1.60	2	APHA(22 <sup>nd</sup> Ed) 4500-S
12	Ammonical Nitrogen as NH <sub>3</sub>	mg/L	26	50	IS3025(P34)
13	BOD (3 Days @ 27 °C)	mg/L	70	1000	IS 3025 (P44)
14	COD	mg/L	268	2000	APHA(22 <sup>nd</sup> Ed) 5520-D Open Reflux
15	Chloride as Cl	mg/L	549	1000	IS3025(P32)
16	Sulphate as SO <sub>4</sub>	mg/L	96	1000	APHA(22 <sup>nd</sup> Ed)4500 SO <sub>4</sub> E
17	Total Dissolved Solids	mg/L	1696	2100	IS3025(P16)
18	Total Residual Chlorine	mg/L	< 0.2	0.2 Min	APHA(22 <sup>nd</sup> Ed)4500 Cl
19	Copper as Cu	mg/L	BDL*	3	AAS APHA(22 <sup>nd</sup> Ed)3111 B

\*As per GPCB Consent Order No. AWH- 79311 Issue Date: 02/06/2016 Upto 07/04/2021

*Mack*  
**Macky Suraliwala**  
Sr. Scientist



*Dr. Arun Bajpai*  
**Dr. Arun Bajpai**  
Lab Manager (Q)

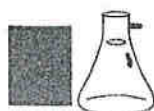
Note: This report is subject to terms & conditions mentioned overleaf.

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Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com



**POLLUCON LABORATORIES PVT. LTD.****TEST REPORT**

QR/5.10/01

Customer's Name and Address :

Page: 1 of 1

M/S. MPSEZ UTILITIES PVT LTD (MUPL),  
SURVEY NO/PLOT NO. 141 (PART),  
VILLAGE - MUNDRA, TALUKA - MUNDRA,  
DIST - KUTCH - 370421

Test Report No. : PL/AM 0157  
Issue Date : 04/04/2019  
Customer's Ref. : As Per W.O

Description of Sample : Water Sample (CETP Outlet)  
Sampling Date : 20/03/2019 Quantity/No. of Samples : 02 Lit/One  
Sampling By : Pollucon Laboratories Pvt. Ltd. Sampling Procedure : Grab  
Sample Receipt Date : 22/03/2019 Lab ID : AM/1903/71  
Packing/ Seal : Sealed Test Parameters : As per table  
Date of Starting of Test : 22/03/2019 Date of Completion : 31/03/2019

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULTS	GPCB Permissible Limit CETP Outlet <sup>a</sup>	TEST METHOD
			CETP OUTLET		
1	pH	--	7.09	6 to 9	IS3025(P11)
2	Temperature	°C	31.3	Shall Not exceed more than 5 °C above ambient water temperature	IS3025(P9)
3	Colour	Co-pt	70	100	IS3025(P4)
4	Total Suspended Solids	mg/L	44	100	IS3025(P17)
5	Oil & Grease	mg/L	3.4	10	APHA(22 <sup>nd</sup> Ed)5520D
6	Phenolic Compound	mg/L	BDL*	1	IS3025(P43)
7	Fluorides	mg/L	0.55	2	APHA(22 <sup>nd</sup> Ed) 4500 F D SPANDS
8	Iron as Fe	mg/L	0.064	3	AAS APHA(22 <sup>nd</sup> Ed)3111 B
9	Zinc as Zn	mg/L	0.028	15	AAS APHA(22 <sup>nd</sup> Ed)3111 B
10	Trivalent Chromium	mg/L	0.046	2	AAS APHA(22 <sup>nd</sup> Ed)3111 B
11	Sulphide as S	mg/L	0.4	2	APHA(22 <sup>nd</sup> Ed) 4500-S
12	Ammonical Nitrogen as NH <sub>3</sub>	mg/L	10	50	IS3025(P34)
13	BOD (3 Days @ 27 °C)	mg/L	40	100	IS 3025 (P44)
14	COD	mg/L	150	250	APHA(22 <sup>nd</sup> Ed) 5520-D Open Reflux
15	Chloride as Cl	mg/L	513	1000	IS3025(P32)
16	Sulphate as SO <sub>4</sub>	mg/L	79	1000	APHA(22 <sup>nd</sup> Ed)4500 SO <sub>4</sub> E
17	Total Dissolved Solids	mg/L	1526	2100	IS3025(P16)
18	Total Residual Chlorine	mg/L	<0.2	1	APHA(22 <sup>nd</sup> Ed)4500 Cl
19	Copper as Cu	mg/L	BDL*	3	AAS APHA(22 <sup>nd</sup> Ed)3111 B

BDL\*: Below Detection limit, Minimum Detection Limit, Phenolic compounds as C<sub>6</sub>H<sub>5</sub>OH: 0.1 mg/L, Copper: 0.04 mg/L

As per GPCB Consent Order No. AWH- 79311 Issue Date: 02/06/2016 upto 07/04/2021

*Mack*  
**Mack Suraliwala**  
Sr. Scientist



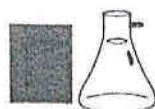
*Dr. Arun Bajpai*  
**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

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"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mar, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com



**POLLUCON** LABORATORIES PVT. LTD.

## TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

Customer's Name and Address:

QR/5.10/12B-C

Page: 1 of 1

**M/S. MPSEZ UTILITIES PVT LTD (MUPL),  
SURVEY NO/PLOT NO. 141 (PART),  
VILLAGE - MUNDRA, TALUKA - MUNDRA,  
DIST - KUTCH - 370421**

Test Report No. : **PL/AM 0203**

Issue Date : **04/04/2019**

Customer's Ref. : **As Per W.O**

Location of Sampling : **WTP - NEAR CETP**

GPS Location : **N 22° 48.446' E 069° 42.238'**

Date of Sampling : **As per table**

Protocol (purpose) : **Ambient Air Quality Monitoring**

Sampling By : **Pollucon Laboratories Pvt. Ltd. Lab Id**

: **As per table**

### RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULT								LIMIT#	METHOD OF MEASUREMENT
			Date of Sampling									
			04/03 /2019	06/03 /2019	11/03 /2019	13/03 /2019	18/03 /2019	20/03 /2019	25/03 /2019	27/03 /2019		
			AMA/1903 [A - D]									
Lab ID			10	22	34	46	58	70	82	90		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	70.87	85.44	91.26	67.23	74.28	82.45	77.48	61.60	100	IS 5182(Part-XXIII) SOP AAQM RSPM-02
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	34.53	46.54	53.44	40.18	31.25	43.26	39.56	32.41	60	SOP AAQM PM 2.5-06
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	21.23	19.43	13.49	28.49	24.30	22.07	16.34	25.61	80	IS:5182(Part-IX)SOP AAQMSO <sub>2</sub> -03
4	Oxides of Nitrogen as NO <sub>2</sub>	µg/m <sup>3</sup>	41.37	33.50	39.29	35.40	30.20	42.81	36.53	40.44	80	IS:5182(Part VI)SOP AAQM No <sub>2</sub> -04

BDLT: Below Detection Limit, Minimum Detection Limit: Hydrogen Sulphide as H<sub>2</sub>S: 6 µg/m<sup>3</sup>

Limit#: Industrial, Residential, Rural and other Area Notification Dated 16<sup>th</sup> Nov.2009 as per national Ambient Air Quality Standards, CPCB New Delhi.

*Ravi Jariwala*

**Ravi Jariwala**  
Sr. Environmental Scientist



*Dr. Arun Bajpai*

**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com





**POLLUCON** LABORATORIES PVT. LTD.

## TEST CERTIFICATE

Customer's Name and Address :

QR/5.10/01

Page: 1 of 1

**M/S. MPSEZ UTILITIES PVT LTD (MUPL),  
SURVEY NO/PLOT NO. 141 (PART),  
VILLAGE - MUNDRA, TALUKA - MUNDRA,  
DIST - KUTCH - 370421**

Test Report No. : **PL/AM 0154**

Issue Date : **04/04/2019**

Customer's Ref. : **As Per W.O**

### NOISE LEVEL MONITORING REPORT

Sampling Date : **CETP** Sampling By : **Pollucon Laboratories Pvt. Ltd.**  
Test Method : **IS 9876 : IS 9989** Protocol (purpose) : **Environmental Monitoring**

### RESULT TABLE

SR NO	SAMPLING LOCATION & GPS LOCATION			DAY TIME RESULTS IN Leq dB( A )							
				22/03/2019							
				6:00-7:00	7:00-8:00	8:00-9:00	9:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00
1	CETP	N 22° 48.446'	E 069° 42.238'	68.4	62.1	69.7	63.1	70.1	72.3	63.1	69.4

SR NO	SAMPLING LOCATION & GPS LOCATION			DAY TIME RESULTS IN Leq dB( A )							
				22/03/2019							
				14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00
1	CETP	N 22° 48.446'	E 069° 42.238'	64.1	62.8	68.1	71.3	68.1	65.1	65.9	64.2

SR NO	SAMPLING LOCATION & GPS LOCATION			DAY TIME RESULTS IN Leq dB( A )		
				22/03/2019		
				AVERAGE	MAX	MIN
1	CETP	N 22° 48.446'	E 069° 42.238'	66.7	72.3	62.1

*Ravi Jariwala*

**Ravi Jariwala  
Sr. Environmental Scientist**



*Dr. Arun Bajpai*

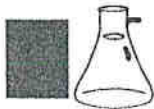
**Dr. Arun Bajpai  
Lab Manager (Q)**

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**POLLUCON** LABORATORIES PVT. LTD.**TEST CERTIFICATE**

Customer's Name and Address :

QR/5.10/01

Page: 1 of 1

**M/S. MPSEZ UTILITIES PVT LTD (MUPL),  
SURVEY NO/PLOT NO. 141 (PART),  
VILLAGE - MUNDRA, TALUKA - MUNDRA,  
DIST - KUTCH - 370421**

Test Report No. : **PL/AM 0155**Issue Date : **04/04/2019**Customer's Ref. : **As Per W.O****NOISE LEVEL MONITORING REPORT**Sampling Location : **CETP**Sampling By : **Pollucon Laboratories Pvt. Ltd.**Test Method : **IS 9876 : IS 9989**Protocol (purpose) : **Environmental Monitoring****RESULT TABLE**

SR NO	SAMPLING LOCATION & GPS LOCATION			NIGHT TIME RESULTS IN Leq dB(A)			
				22/03/2019		23/03/2019	
				22:00-23:00	23:00-00:00	00:00-01:00	01:00-02:00
1	CETP	N 22° 48.446'	E 069° 42.238'	55.1	61.8	56.7	59.7

SR NO	SAMPLING LOCATION & GPS LOCATION			NIGHT TIME RESULTS IN Leq dB(A)			
				23/03/2019			
				02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00
1	CETP	N 22° 48.446'	E 069° 42.238'	62.1	65.4	60.4	57.4

SR NO	SAMPLING LOCATION & GPS LOCATION			NIGHT TIME RESULTS IN Leq dB(A)		
				22/03/2019 & 23/03/2019		
				AVERAGE	MAX	MIN
1	CETP	N 22° 48.446'	E 069° 42.238'	59.8	65.4	55.1

**Ravi Jariwala**  
**Sr. Environmental Scientist**



**Dr. Arun Bajpai**  
**Lab Manager (Q)**

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# **ANNEXURE – 3**

### Annexure – 3

#### Details of Water Consumption (Oct-18 to Mar-19)

Sr. No.	Month	Total water Consumption (KL)	Common Effluent Treatment Plant (CETP) Month wise Water consumption data in KL	
			Domestic	Industrial
1.	Oct – 18	190	40	150
2.	Nov – 18	195	45	150
3.	Dec – 18	119	30	89
4.	Jan – 19	173	33	140
5.	Feb – 19	172	32	140
6.	March – 19	179	35	144
	<b>Total</b>	<b>1028</b>	<b>215</b>	<b>813</b>

#### Collected Quantity of Trade Effluent and Treated Water Discharge

(Oct-18 to Mar-19)

Sr. No.	Month	Effluent collected from member units in KL	Treated water Discharge in KL
1	Oct – 18	6101	5950
2	Nov – 18	4474	4537
3	Dec – 18	4386	3467
4	Jan – 19	4603	4507
5	Feb – 19	4411	3808
6	March – 19	4769	4152
<b>Total Quantity</b>		<b>28744</b>	<b>26421</b>
<b>Avg. Quantity per Day</b>		<b>158</b>	<b>145</b>

# **ANNEXURE – 4**

**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**

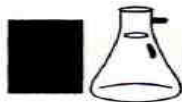
**COMMON EFFLUENT TREATMENT PLANT [CETP]  
MPSEZL UTILITIES PVT LTD (MUPL)  
TAL: MUNDRA, KUTCH, MUNDRA – 370 421**

**MONITORING PERIOD:  
OCTOBER 2018 TO MARCH 2019**

**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](mailto:pollucon@gmail.com) Web: [www.polluconlab.com](http://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

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**RESULT OF CETP OUTLET**

SR. NO.	TEST PARAMETERS	UNIT	CETP OUTLET						GPCB Permissible Limit CETP OUTLET	TEST METHOD
			Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	March-19		
1	pH	--	7.13	7.41	7.35	7.18	7.65	7.09	6 to 9	IS3025(P11)83Re.02
2	Temperature	°C	31.3	30.8	31.8	30.9	31	31.3	Shall Not exceed more than 5 °C above ambient water temperature	IS3025(P9)84Re.02
3	Colour	Co-pt	40	50	70	50	40	70	100	IS3025(P4)83Re.02
4	Total Suspended Solids	mg/L	56	11	23	29	32	44	100	IS3025(P17)84Re.02
5	Oil & Grease	mg/L	2.4	BDL*	BDL*	2.2	3.2	3.4	10	APHA(22 <sup>nd</sup> Edition)5520D
6	Phenolic Compound	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	1	IS3025(P43)92Re.03
7	Fluorides	mg/L	0.32	0.44	0.35	0.7	0.45	0.55	2	APHA(22 <sup>nd</sup> Edition) 4500 F D SPANDS
8	Iron	mg/L	0.18	0.12	0.11	0.082	0.11	0.064	3	AAS APHA(22 <sup>nd</sup> Edition)3111 B
9	Zinc as Zn	mg/L	0.18	0.16	0.098	0.082	0.096	BDL*	15	AAS APHA(22 <sup>nd</sup> Edition)3111 B
10	Trivalent Chromium	mg/L	0.29	0.15	0.14	0.074	0.054	BDL*	2	AAS APHA(22 <sup>nd</sup> Edition)3111 B
11	Sulphide as S	mg/L	1.00	0.80	0.6	0.2	0.4	0.4	2	APHA(22 <sup>nd</sup> Edition) 4500-S
12	Ammonical Nitrogen as NH <sub>3</sub>	mg/L	12	13	12.4	18	15	10	50	IS3025(P34)88Cla.2.3
13	BOD (3 Days @ 27°C)	mg/L	20	36	28	35	40	40	100	IS 3025 (P44)1993Re.03Edition 2.1
14	COD	mg/L	72	102	72	132	156	150	250	APHA(22 <sup>nd</sup> Edition) 5520-D Open Reflux
15	Chloride as Cl	mg/L	560	664	669	639	618	513	1000	IS3025(P32)88Re.99
16	Sulphate as SO <sub>4</sub>	mg/L	96	90	85	60	68	79	1000	APHA(22 <sup>nd</sup> Edition)4500 SO <sub>4</sub> E
17	Total Dissolved Solids	mg/L	1092	1176	1352	1222	1312	1526	2100	IS3025(P16)84Re.02
18	Total Residual Chlorine	mg/L	0.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	1	APHA(22 <sup>nd</sup> Edition)4500 Cl
19	Copper as Cu	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	3	AAS APHA(22 <sup>nd</sup> Edition)3111 B

\*Below Detection Limit

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

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**RESULT OF AMBIENT AIR QUALITY MONITORING**

WTP- NEAR CETP					
Sr.No.	Date of Sampling	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Sulphur Dioxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	Oxides of Nitrogen (NO <sub>2</sub> ) µg/m <sup>3</sup>
1	03/10/2018	88.69	40.32	22.44	42.32
2	06/10/2018	95.46	51.53	13.35	32.77
3	10/10/2018	81.25	37.52	20.24	38.65
4	13/10/2018	73.62	40.28	24.39	44.21
5	17/10/2018	80.84	42.66	18.66	34.43
6	20/10/2018	96.25	58.30	16.50	39.33
7	24/10/2018	83.63	45.34	14.64	27.63
8	27/10/2018	96.25	58.30	19.29	35.35
9	31/10/2018	87.29	41.24	17.39	29.56
10	03/11/2018	81.56	35.61	24.66	38.62
11	07/11/2018	79.34	42.59	16.44	37.54
12	10/11/2018	86.54	56.31	22.51	40.23
13	14/11/2018	72.74	38.60	18.22	29.59
14	17/11/2018	69.41	41.55	21.57	35.52
15	19/11/2018	84.33	45.54	13.46	28.54
16	21/11/2018	68.38	30.75	10.62	25.54
17	26/11/2018	74.58	43.76	17.35	33.62
18	28/11/2018	65.64	28.55	20.24	31.33
19	03/12/2018	95.38	51.49	20.93	39.26
20	05/12/2018	88.26	36.82	23.58	36.61
21	10/12/2018	78.58	34.53	17.51	43.63
22	12/12/2018	68.24	30.63	19.58	34.32
23	17/12/2018	74.29	38.65	26.30	28.50
24	19/12/2018	94.68	56.31	22.65	37.72
25	24/12/2018	82.42	35.65	18.37	33.62
26	26/12/2018	72.52	45.34	15.61	42.52
27	31/12/2018	93.59	39.56	12.62	29.35
28	02/01/2019	75.77	43.30	22.62	27.63
29	07/01/2019	54.23	25.36	9.55	19.59
30	09/01/2019	68.55	29.46	7.58	21.35

Continue ...

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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WTP- NEAR CETP					
Sr.No.	Date of Sampling	Particulate Matter (PM10) µg/m3	Particulate Matter (PM2.5) µg/m3	Sulphur Dioxide (SO2) µg/m3	Oxides of Nitrogen (NO2) µg/m3
31	15/01/2019	78.31	44.35	17.39	36.37
32	16/01/2019	62.51	27.64	21.49	24.42
33	21/01/2019	84.33	34.56	18.40	28.67
34	23/01/2019	66.37	42.68	15.60	37.40
35	28/01/2019	57.58	20.64	8.22	22.78
36	30/01/2019	69.85	36.55	12.92	30.24
37	04/02/2019	82.62	44.50	22.52	26.79
38	06/02/2019	68.43	36.57	11.84	35.84
39	11/02/2019	74.58	41.35	25.60	30.73
40	13/02/2019	86.68	48.49	20.65	34.44
41	18/02/2019	78.55	32.74	18.91	43.42
42	20/02/2019	61.86	24.27	21.55	41.53
43	25/02/2019	84.57	45.38	14.47	32.34
44	27/02/2019	69.36	40.22	26.29	38.57
45	04/03/2019	70.87	34.53	21.23	41.37
46	06/03/2019	85.44	46.54	19.43	33.50
47	11/03/2019	91.26	53.44	13.49	39.29
48	13/03/2019	67.23	40.18	28.49	35.40
49	18/03/2019	74.28	31.25	24.30	30.20
50	20/03/2019	82.45	43.26	22.07	42.81
51	25/03/2019	77.48	39.56	16.34	36.53
52	27/03/2019	61.60	32.41	25.61	40.44
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-NaAsO2)

\*Below detection limit

H. T. Shah

Lab Manager



Dr. Arun Bajpai

Lab Manager (Q)



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**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 $\text{mg}/\text{m}^3$	Hydrocarbon as CH <sub>4</sub> $\text{mg}/\text{m}^3$	Benzene as C <sub>6</sub> H <sub>6</sub> $\mu\text{g}/\text{m}^3$
1	03/10/2018	66.56	28.66	14.89	29.43	0.53	BDL*	BDL*
2	06/10/2018	86.36	45.67	10.33	18.33	0.21	BDL*	BDL*
3	10/10/2018	75.33	35.64	15.60	24.52	0.30	BDL*	BDL*
4	13/10/2018	80.45	41.55	17.42	37.29	0.44	BDL*	BDL*
5	17/10/2018	64.38	31.88	8.68	31.83	0.26	BDL*	BDL*
6	20/10/2018	89.34	54.32	6.49	34.63	0.48	BDL*	BDL*
7	24/10/2018	68.33	32.57	12.41	25.66	0.40	BDL*	BDL*
8	27/10/2018	77.59	29.32	9.67	18.42	0.16	BDL*	BDL*
9	31/10/2018	80.33	37.56	11.25	21.62	0.34	BDL*	BDL*
10	03/11/2018	78.57	32.51	13.55	26.84	0.22	BDL*	BDL*
11	07/11/2018	60.38	26.43	6.30	15.42	0.14	BDL*	BDL*
12	10/11/2018	71.56	23.45	7.60	21.41	0.47	BDL*	BDL*
13	14/11/2018	68.25	29.49	9.36	25.44	0.17	BDL*	BDL*
14	17/11/2018	80.45	34.58	15.62	30.27	0.33	BDL*	BDL*
15	19/11/2018	63.78	31.56	8.33	16.70	0.13	BDL*	BDL*
16	21/11/2018	50.17	19.52	11.60	19.67	0.21	BDL*	BDL*
17	26/11/2018	47.62	27.63	14.63	35.38	0.37	BDL*	BDL*
18	28/11/2018	59.22	24.32	10.78	18.70	0.19	BDL*	BDL*
19	03/12/2018	79.88	45.50	7.57	23.50	0.78	BDL*	BDL*
20	05/12/2018	50.31	20.64	12.37	28.35	0.33	BDL*	BDL*
21	10/12/2018	62.68	39.25	9.52	20.61	0.19	BDL*	BDL*
22	12/12/2018	52.40	33.67	14.63	30.34	0.41	BDL*	BDL*
23	17/12/2018	48.60	23.53	16.27	24.57	0.16	BDL*	BDL*
24	19/12/2018	66.76	38.63	13.65	19.70	0.22	BDL*	BDL*
25	24/12/2018	58.44	26.51	15.83	22.57	0.39	BDL*	BDL*
26	26/12/2018	42.66	18.86	12.50	26.39	0.13	BDL*	BDL*
27	31/12/2018	64.59	28.25	6.33	16.70	0.21	BDL*	BDL*
28	02/01/2019	55.67	34.66	18.33	25.45	0.30	BDL*	BDL*
29	07/01/2019	61.28	27.59	16.57	33.55	0.21	BDL*	BDL*
30	09/01/2019	50.31	21.55	13.39	23.62	0.50	BDL*	BDL*

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

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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 $\text{mg}/\text{m}^3$	Hydrocarbon as CH <sub>4</sub> $\text{mg}/\text{m}^3$	Benzene as C <sub>6</sub> H <sub>6</sub> $\mu\text{g}/\text{m}^3$
31	15/01/2019	75.63	40.29	6.56	27.85	0.11	BDL*	BDL*
32	16/01/2019	57.26	24.53	14.43	21.61	0.14	BDL*	BDL*
33	21/01/2019	71.55	28.58	7.37	17.60	0.48	BDL*	BDL*
34	23/01/2019	48.37	32.43	12.67	26.63	0.16	BDL*	BDL*
35	28/01/2019	51.59	22.54	17.49	30.52	0.41	BDL*	BDL*
36	30/01/2019	45.36	19.23	9.63	22.45	0.24	BDL*	BDL*
37	04/02/2019	66.25	25.77	15.60	15.75	0.64	BDL*	BDL*
38	06/02/2019	51.62	24.53	10.24	28.39	0.16	BDL*	BDL*
39	11/02/2019	46.58	20.43	14.62	21.67	0.39	BDL*	BDL*
40	13/02/2019	68.32	39.66	12.33	22.45	0.32	BDL*	BDL*
41	18/02/2019	56.69	23.41	7.58	32.52	0.58	BDL*	BDL*
42	20/02/2019	78.23	32.84	9.58	19.44	0.27	BDL*	BDL*
43	25/02/2019	65.45	35.69	11.53	25.40	0.53	BDL*	BDL*
44	27/02/2019	59.63	26.31	13.85	20.60	0.21	BDL*	BDL*
45	04/03/2019	63.68	40.37	13.66	26.39	0.13	BDL*	BDL*
46	06/03/2019	72.66	35.49	8.42	18.69	0.42	BDL*	BDL*
47	11/03/2019	80.47	23.45	12.59	31.84	0.21	BDL*	BDL*
48	13/03/2019	51.65	29.20	16.29	23.49	0.27	BDL*	BDL*
49	18/03/2019	60.68	25.40	14.61	15.39	0.46	BDL*	BDL*
50	20/03/2019	71.69	31.52	10.69	21.72	0.19	BDL*	BDL*
51	25/03/2019	50.23	22.62	15.60	29.40	0.23	BDL*	BDL*
52	27/03/2019	67.20	36.44	9.66	24.56	0.18	BDL*	BDL*
	<b>TEST METHOD</b>	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 <sub>2</sub> )	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]					
		03/10/2018	14/11/2018	12/12/2018	11/01/2019	08/02/2019	22/03/2019
1	6:00-7:00	61.4	62.6	62.7	62.1	63.4	68.4
2	7:00-8:00	61.6	58.8	69.1	60.8	60.4	62.1
3	8:00-9:00	64.8	62.9	65.7	65.9	61.8	69.7
4	9:00-10:00	66.0	66.7	70.4	67.4	68.4	63.1
5	10:00-11:00	71.1	72.0	72.1	64.3	62.4	70.1
6	11:00-12:00	66.4	64.4	68.1	65.6	65.1	72.3
7	12:00-13:00	62.8	60.6	63.5	69.5	65.3	63.1
8	13:00-14:00	72.7	74.2	65.9	65.2	69.4	69.4
9	14:00-15:00	74.1	71.1	69.1	62.1	73.1	64.1
10	15:00-16:00	65.4	66.2	62.8	70.1	68.4	62.8
11	16:00-17:00	62.8	63.2	66.1	63.5	65.1	68.1
12	17:00-18:00	64.2	67.2	62.8	65.2	65.9	71.3
13	18:00-19:00	66.1	63.8	66.1	62.4	62.4	68.1
14	19:00-20:00	64.0	61.5	69.4	68.5	66.1	65.1
15	20:00-21:00	63.1	60.2	65.6	61.5	66.8	65.9
16	21:00-22:00	61.8	63.4	63.7	64.9	64.1	64.2
Day Time Limit*		75 dB(A) Leq					

**Result of Noise level monitoring [Night Time]**

SR. NO.	Name of Location	CETP					
		Result [dB(A) Leq]					
		03/10/2018 & 04/10/2018	14/11/2018 & 15/11/2018	12/12/2018 & 13/12/2018	11/01/2019 & 12/01/2019	08/02/2019 & 09/02/2019	22/03/2019 & 23/03/2019
1	22:00-23:00	56.9	57.5	62.1	60.4	62.1	55.1
2	23:00-00:00	64.4	67.3	60.4	62.4	60.4	61.8
3	00:00-01:00	56.7	56.8	63.4	58.2	63.4	56.7
4	01:00-02:00	60.0	58.8	65.1	62.5	65.1	59.7
5	02:00-03:00	59.7	57.6	59.4	62.3	59.4	62.1
6	03:00-04:00	60.6	59.3	61.4	65.2	61.4	65.4
7	04:00-05:00	56.9	59.9	62.7	61.2	62.7	60.4
8	05:00-06:00	65.1	65.7	63.4	63.8	63.4	57.4
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]					
		10/10/2018	10/11/2018	26/12/2018	03/01/2019	14/02/2019	25/03/2019
1	6:00-7:00	49.7	49.3	52.1	54.1	55.1	57.1
2	7:00-8:00	50.4	52.5	56.4	58.1	58.4	56.1
3	8:00-9:00	60.7	63.7	63.1	60.4	60.1	60.1
4	9:00-10:00	55.5	58.2	62.4	62.4	62.4	59.8
5	10:00-11:00	56.8	58.2	68.4	68.4	59.1	59.1
6	11:00-12:00	64.1	65.5	61.4	59.4	63.4	62.4
7	12:00-13:00	59.7	58.8	60.4	60.4	62.8	63.1
8	13:00-14:00	55.4	56.8	58.4	62.1	59.4	66.4
9	14:00-15:00	50.0	49.4	60.4	58.7	61.2	64.1
10	15:00-16:00	57.4	59.0	60.9	56.1	61.8	62.7
11	16:00-17:00	66.0	65.1	63.1	58.4	60.8	62.8
12	17:00-18:00	61.8	63.0	61.4	60.4	62.4	60.4
13	18:00-19:00	56.5	58.8	65.4	55.8	63.4	65.1
14	19:00-20:00	57.5	56.1	62.4	59.8	61.8	62.7
15	20:00-21:00	66.4	68.4	60.4	56.4	62.8	60.8
16	21:00-22:00	62.2	64.4	60.7	58.4	65.2	63.4
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]					
		10/10/2018 & 11/10/2018	10/11/2018 & 11/11/2018	26/12/2018 & 27/12/2018	03/01/2019 & 04/01/2019	14/02/2019 & 15/02/2019	25/03/2019 & 26/03/2019
1	22:00-23:00	57.8	56	59.4	59.4	59.4	58.1
2	23:00-00:00	57.4	54.9	54.4	54.4	54.4	55.1
3	00:00-01:00	56.8	56.9	54.8	54.8	54.8	50.4
4	01:00-02:00	57.8	58.8	58.3	58.3	58.3	53.1
5	02:00-03:00	61.5	62.6	50.3	50.3	50.3	57.1
6	03:00-04:00	58.8	58.9	50.2	50.2	50.2	60.4
7	04:00-05:00	51.5	50.8	51.4	51.4	51.4	56.1
8	05:00-06:00	59.3	56.8	56.4	56.4	56.4	62.8
Night Time Limit*		70 dB(A) Leq					

**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

**RESULTS OF D.G. STACK MONITORING**

25/11/2018					
SR. NO.	TEST PARAMETERS	Unit	WTP	GPCB Limit	Test Method
			D.G. Set (380KVA)		
1	Particulate Matter	mg/Nm <sup>3</sup>	10.84	150	IS:11255 (Part-I):1985
2	Sulphur Dioxide	ppm	2.69	100	IS:11255 (Part-II):1985
3	Oxide of Nitrogen	ppm	29.45	50	IS:11255 (Part-VII):2005
4	Carbon Monoxide	mg/m <sup>3</sup>	11.2	Not Specified	Digital Gas Analyzer
5	Hydro Carbon NMHC	ppm	BDL*	Not Specified	Gas Chromatography

\*DG sets are used as standby, so stack monitoring is done on quarterly basis. Results on 15 % O<sub>2</sub> Correction when Oxygen is greater than 15 %**H. T. Shah****Lab Manager****Dr. Arun Bajpai****Lab Manager (Q)**

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**Minimum Detection Limit [MDL]**

Ambient Air Parameter		
Sr. No.	Test parameter	MDL
1	Particulate Matter (PM10) ( $\mu\text{g}/\text{m}^3$ )	10
2	Particulate Matter (PM 2.5) ( $\mu\text{g}/\text{m}^3$ )	10
3	Sulphur Dioxide ( $\text{SO}_2$ ) ( $\mu\text{g}/\text{m}^3$ )	5
4	Oxides of Nitrogen ( $\mu\text{g}/\text{m}^3$ )	5
5	Carbon Monoxide (CO) ( $\text{mg}/\text{m}^3$ )	0.1
6	Hydrocarbon ( $\text{CH}_4$ ) ( $\text{mg}/\text{m}^3$ )	150
7	Benzene ( $\text{C}_6\text{H}_6$ ) ( $\mu\text{g}/\text{m}^3$ )	2

Stack parameter		
Sr.No.	Test parameter	MDL
1	Particulate Matter ( $\text{mg}/\text{Nm}^3$ )	10
2	Sulphur Dioxide (ppm)	1.52
3	Oxides of Nitrogen (ppm)	2.65
4	Carbon Monoxide ( $\text{mg}/\text{Nm}^3$ )	0.1
5	Hydro Carbon NMHC(ppm)	1.0

Water parameter( $\text{mg}/\text{L}$ )		
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 $\text{NH}_3$	0.2
13	BOD (3 Days @ $27^\circ\text{C}$ )	1
14	COD	5
15	Chloride as Cl	1
16	Sulphate as $\text{SO}_4$	1
17	Total Dissolved Solids	10
18	Total Residual Chlorine	0.2
19	Copper as Cu	0.01

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

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# **"HALF YEARLY ENVIRONMENTAL MONITORING REPORT"**

**FOR**

**BORE HOLE WATER NEAR CETP  
ADANI PORTS AND SPECIAL ECONOMIC ZONE LIMITED  
TAL: MUNDRA, KUTCH, MUNDRA – 370 421**

**MONITORING PERIOD:  
OCTOBER 2018 TO MARCH 2019**

**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](mailto:pollucon@gmail.com) Web: [www.polluconlab.com](http://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

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**RESULTS OF BORE HOLE WATER**

SR. NO	TEST PARAMETERS	UNIT	RESULTS	TEST METHOD
			NEAR CETP MAIN GATE	
	GPS Location		N 22° 48.630' S 069° 42.393'	
	Sampling Date		31/12/2018	
1	pH	--	8.25	IS3025(P11)83Re.02
2	Salinity	ppt	2.93	APHA 2520B
3	Oil & Grease	mg/L	BDL*	APHA(22 <sup>nd</sup> Edi)5520D
4	Hydrocarbon	mg/L	BDL*	GC/GC-MS
5	Lead as Pb	mg/L	0.016	AAS APHA(22 <sup>nd</sup> Edi)3111 B
6	Arsenic as As	mg/L	BDL*	AAS APHA 3114 B
7	Nickel as Ni	mg/L	BDL*	AAS APHA(22 <sup>nd</sup> Edi)3111 B
8	Total Chromium as Cr	mg/L	BDL*	AAS 3111B
9	Cadmium as Cd	mg/L	BDL*	AAS APHA(22 <sup>nd</sup> Edi)3111 B
10	Mercury as Hg	mg/L	BDL*	AAS APHA- 3112 B
11	Zinc as Zn	mg/L	BDL*	AAS APHA(22 <sup>nd</sup> Edi)3111 B
12	Copper as Cu	mg/L	BDL*	AAS APHA(22 <sup>nd</sup> Edi)3111 B
13	Iron as Fe	mg/L	0.28	AAS APHA(22 <sup>nd</sup> Edi)3111 B
14	Insecticides/Pesticides	mg/L	Absent	GC/GC-MS
15	Depth of Water Level from Ground Level	meter	1.85	--

\*BDL: Below Detection Limit

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

**POLLUCON****LABORATORIES PVT. LTD.**Environmental Auditors, Consultants & Analysts.  
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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)**

# **ANNEXURE – 5**



**ANALYSIS REPORT FOR  
WATER / WASTE WATER SAMPLE**

**Gujarat Pollution Control Board, Kutch West  
Katira Commercial Complex-1, First Floor  
Near Income Tax office, Manglam Char rasta ,Sanskar  
nagar,  
BHUJ - 370 001**

Sample ID:250832 - Analysis Completion:19/01/2019

**Common treatment and disposal facilities(CETP, TSDF, Ewaste  
recycling, CBMWTF, effluent conveyance project, incinerator,  
solvent/acid recovery plant, MSW sanitary landfill site) / LAB Inward :  
5054**

**TEST REPORT**

**Test Report No. : 5054**

**Date: 30/01/2019**

- |   |  |
|---|--|
| <b>1. Name of the Customer</b>                          | <b>: Mpsez Utilities Pvt. Ltd.(Mupl) - 10605</b>                                   |
| <b>2. Address</b>                                       | <b>: SURVEY NO. 141 (PART),SURVEY NO. 141 (PART),VILL MUNDRA,SURVEY NO. MUNDRA</b> |
| <b>3. Nature of Sample</b>                              | <b>: REP-Representative/Grab, (Insp Type : ROU-Routine Visit)</b>                  |
| <b>4. Sample Collected By</b>                           | <b>: Virda Rikeshkumar R</b>   |
| <b>5. Quantity of Sample Received</b>                   | <b>: 5 Ltr</b>   |
| <b>6. Code No. of the Sample</b>                        | <b>: 250832</b>  |
| <b>7. Date &amp; Time of Collection &amp; Inwarding</b> | <b>: 08/01/2019 , (1107 to 1110) &amp; 10/01/2019</b>                              |
| <b>8. Date of Start &amp; Completion of Analysis</b>    | <b>: 10/01/2019 &amp; 19/01/2019</b>   |
| <b>9. Sampling Point</b>                                | <b>: CETP Outlet ~ Outlet of CETP</b>  |
| <b>10. Flow Details (Remarks)</b>                       | <b>: Flow observed</b>   |
| <b>11. Mode of Disposal</b>                             | <b>: on land for gardening</b>   |
| <b>12. Ultimate Receiving Body</b>                      | <b>: u/g strata</b>  |
| <b>13. Temperature on Collection</b>                    | <b>: 28 &amp; pH Range on pH Strip :@7-8 on pH strip</b>                           |
| <b>14. Carboys Nos for</b>                              | <b>: W-2 &amp; Color &amp; Appearance :Colorless</b>                               |
| <b>15. Water Consumption &amp; W.W.G (KLPD)</b>         | <b>: Ind :80.000 , Dom :20.000 &amp; Ind :0.000 , Dom :15.000</b>                  |

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	Centigrade	IS: 3025 (Part – 9) – 1984(Reaffirmed 2006)	Ambient oC - 60 oC	28
2	pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 – 14 pH value As or	7.13
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	10
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Methoc	10 – 200000 mg/L	1318
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Methoc	2 – 10000 mg/L	10
6	Ammonical Nitrogen	mg/l	1).Titrimetric method (4500 NH3 B & C APHA Standa	1 - 2000 mg/l.	25.2
7	Percent Sodium	%Na	IS11624-1986(Reaffirmed 2009)	0.01 – 100%.	66.1
8	Chloride	mg/l	Argentometric method. (4500 Cl? B APHA Standard M	1 - 50000 mg/l	700
9	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	50
10	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	58
11	Oil & Grease	mg/l	Liquid – Liquid Partition Gravimetric method. (5520 B	01 – 1000 mg/l	0.8
12	Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra	0.1 – 50 mg/l	0.2
13	Fluoride	mg/l	SPADNS method (4500-F-D APHA standard Methods	0.10-40 mg/l	0.5
14	Iron	mg/l	(3111 B APHA Standard methods 21st edi)	0.02-150mg/l	U/A
15	Zinc	mg/l	(3111 B APHA Standard methods 21st edi)	0.005-100mg/l	U/A.
16	Hexavalent Chromium	mg/l	APHA (22nd Edition) –3500 – Cr B : -2012 Colorimet	0.1 – 100 mg/l	0.0
17	Copper	mg/l	3111 B APHA Standard methods 21st edi)	0.01-150 mg/l	Jnder Analysis
18	B.O.D (3 Days 27oC)	mg/l	3 – Day BOD test. (IS 3025 (Part 44) 1993 Reaffirme	05–50000 mg/l	23

**Laboratory Remarks** : Freeze By:682-ae\_682 Dt.: 30/01/2019



**Dr. S. N. Agravat, Lab Head**

**Field Observation :**

---

**Note :**


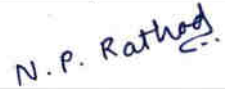
1. \* - These parameters are NOT covered under the scope of NABL.
2. The results refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
3. Samples will be destroyed after 10 days from the date of issue of test report unless otherwise specified.
4. This report is not to be reproduced wholly or in part or used in any advertising media without the permission of the Board in writing.
5. The Board is not responsible for the authenticity for the samples not collected by the Board's officials.
6. Total liability of our laboratory is limited to the invoiced amount. Any dispute arising out of this report is subject to Gujarat Jurisdiction only.
7. Permissible Limits: as per Schedule VI of EPA Rules, 1986 as ammended by Second and Third ammendment 1993 for Effluents
8. Physicochemical and microbiological parameters, Std.Methods for Water and Waste Water- 22nd Edition by APHA.
9. Bioassay test (for toxicity) -IS:6582:Part-2:2001; Reaffirmed 2007.

# **ANNEXURE – 6**



**MPSEZ UTILITIES PVT LTD**  
**Common Effluent Treatment Plant**

**Date: 31-03-2019**

Unit	Time	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	Total running Hrs
MITAP Pump (I & II)									√	√	√	√		3
Sector 5 Pump			√	√	√	√	√	√						4
Screen Chamber Mechanism			√	√										
Effluent Feed Pump							√	√	√	√	√	√	√	6
Triton Mixer							√	√	√	√	√	√	√	6
Triton Blower			√	√	√	√	√	√	√	√	√	√	√	10
Neutralisation Blower			√	√	√	√	√	√	√	√	√	√	√	10
Lime Dosing Mixer														
Lime Dosing Pump														
Alum Dosing Mixer							√	√	√	√	√	√	√	6
Alum Dosing pump							√	√	√	√	√	√	√	6
Poly Electrolyte Dosing Mixer							√	√	√	√	√	√	√	6
Poly Electrolyte Dosing Pump							√	√	√	√	√	√	√	6
Primary Clarifier Mechanism			√	√	√	√	√	√	√	√	√	√	√	10
Primary Sludge Drain Mixer														
Primary Sludge Drain Pump														
Aeration I Blower			√	√	√	√	√	√	√	√	√	√	√	10
Aeration II Blower														
Secondary Clarifier			√	√	√	√	√	√	√	√	√	√	√	10
Sludge Recirculation Pump														
Secondary Sludge Drain Mixer														
Secondary Sludge Drain Pump														
Sludge Thickner Mechanism														
Sludge Thickner Drain Mixer														
Sludge Thickner Drain Pump														
Chlorine Dosing Pump								√	√	√	√	√	√	6
Filter Feed Pump			√	√	√	√	√	√						5
Flow Meter Reading		Initial	Final		Diff. M3/day		Backwash		Chemical Consumption					
MITAP Line		127425	127525		100		Unit	HRS	Chemical	O/B	Recd.	C/B	Cons	
Sector 5 Line		189220	189320		100		MGF-1	1	Alum	404	-	396	8	
Final Outlet (MGF&ACF)		155035	155185		150		ACF-1	1	Lime	-	-	-	-	
Fresh Water Consumption							MGF-2	1	Acid - HCL	-	-	-	-	
Electrical Meter Reading					KWH/day		ACF-2	1	Poly	486	-	482.0	4	
Energy Meter of CETP		5882.15858	5884.3233		259.76664				Sodium Hypo.	4857	-	4837	20	
Remarks :														
							Operator			Plant Incharge				

Unit	Parameter	Time	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Screen Chamber	pH			8.16	8.16	8.15	8.14	8.14	8.15					
Equalisation Tank I	pH			8.01	8.06	8.01	8.02	8.04	8.07					
Equalisation tank II	pH			7.92	7.96	7.96	7.95	7.96	7.95					
Neutralization Tank	pH			8.15	8.15	8.15	8.16	8.14	8.14					
Aeration tank I	DO													
Aeration tank II	DO			0.92	0.92	0.92	0.92	0.92	0.92					
Guard Pond I	pH			7.62	7.62	7.64	7.71	7.72	7.74					
Guard Pond II	pH			7.82	7.82	7.85	7.84	7.84	7.85					
Chlorination ORP	Res. Cl													

### Daily Analysis

	pH	TDS	TSS	COD	BOD	Chloride	MLSS/MLVSS - AT
Unit		mg/ltr.	mg/ltr.	mg/ltr.	mg/ltr.	ppm	ppm
Un Treated water	7.96	1401	204	456	152	676	
Clarified Water							
Treated Water	7.5	1330	36	131	44	620	
Aeration tank							
Return Sludge							
Dorf Ketel	7.64	1377	130	410	136	784	
Ahlstrom	6.86	1594	215	608	203	828	
Ashapura Garments							
MITAP (Comm. Fac.)							
SKAPS (Unit - I)							
SKAPS (Unit - II)							
GSPC (Toyo)							

### Remarks

Analyst  N.P. Rathod  
Plant Incharge

# **ANNEXURE – 7**






**Bhachau-Saurashtra Enviro Projects Pvt. Ltd**  
(Hazardous Waste Manifest)

**Manifest No:**  
**808764**  
**31/12/2018**

**Copy 1**

To be forwarded by the occupier to the State Pollution Control Board or Committee.

1	Occupier's Name & Mailing Address: Registration No: 28203	<b>10605 - Mpsez Utilities Pvt. Ltd.(Mupl)</b> PLOT NO:SURVEY NO. 141 (PART),SURVEY NO. 141 (PART),VILL MUNDRA, SURVEY NO. 141 (PART),VILL MUNDRA ,MUNDRA - 370421 DIST : Kutch East, TAL : Mundra , GIDC : Not In Gidc	
2	Transporter's Name & Address :	Sathi Enterprise, MUNDRA, KUTCH Ph: 9998912166	
3	Transporter's Registration No :	--	
4	Vehicle No & Type :	GJ12BT8471 - TRUCK	
5	Designated Facility Name & Site Add:	<b>Bhachau-Saurashtra Enviro Projects Pvt. Ltd[28203]</b>	
6	Facility's Reg No with PCB :	<b>[28203]</b>	
7	Waste Type :	Co-Processing waste	
8	Waste Description & Codes :	35.3	
9	Total Quantity :	2.140 Metric Tonne	Containers: 1
10	Consistency :	Solid	
11	Waste Description :	CETP Sludge (Cat. No. 35.3: 2.14 MT) sent to SEPPL, Bhachau for co-processing at cement industries.	
12	<b>Occupier's Certificate :</b> I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labeled, and are in all respects in proper condition for transport by road according to applicable national government regulations.  Name & Stamp of Industry Date: 31/12/2018  Signature		
13	<b>Transporter Acknowledgement of Receipt of Wastes</b> Stamp of: Sathi Enterprise Date : 31/12/2018 0:00  Signature		
14	Discrepancy Note Space		
15	<b>Facility Owner or Operator's Certification of Receipt of Hazardous Waste</b> Stamp of: Bhachau-Saurashtra Enviro Projects Pvt. Ltd[28203] Date : Signature		

Sr	Quantity	Hazardous Waste Type
1	2.140	35.3 - Chemical sludge from waste water treatment

# **ANNEXURE – 8**

## **Details of Greenbelt development at APSEZ, Mundra**

LOCATION	Total Green Zone Detail Till Up to March - 2019				
	Area (In Ha.)	Trees (Nos.)	Palm (Nos.)	Shrubs (SQM)	Lawn (SQM)
SV COLONY	69.53	32480.00	7298.00	68327.00	95019.00
PORT & NON SEZ	79.87	139992.00	19205.00	74210.78	61295.18
SEZ	114.72	227835.00	17302.00	220583.60	28162.03
MITAP	2.48	8168.00	33.00	3340.00	4036.00
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
Samundra Township	55.63	52481.00	11818.00	20078.07	46571.67
Productive Farming (Vadala Farm)	23.79	27976.00	0.00	0.00	0.00
<b>TOTAL (APSEZL)</b>	<b>455.23</b>	<b>718533.00</b>	<b>111800.00</b>	<b>419933.45</b>	<b>263386.73</b>

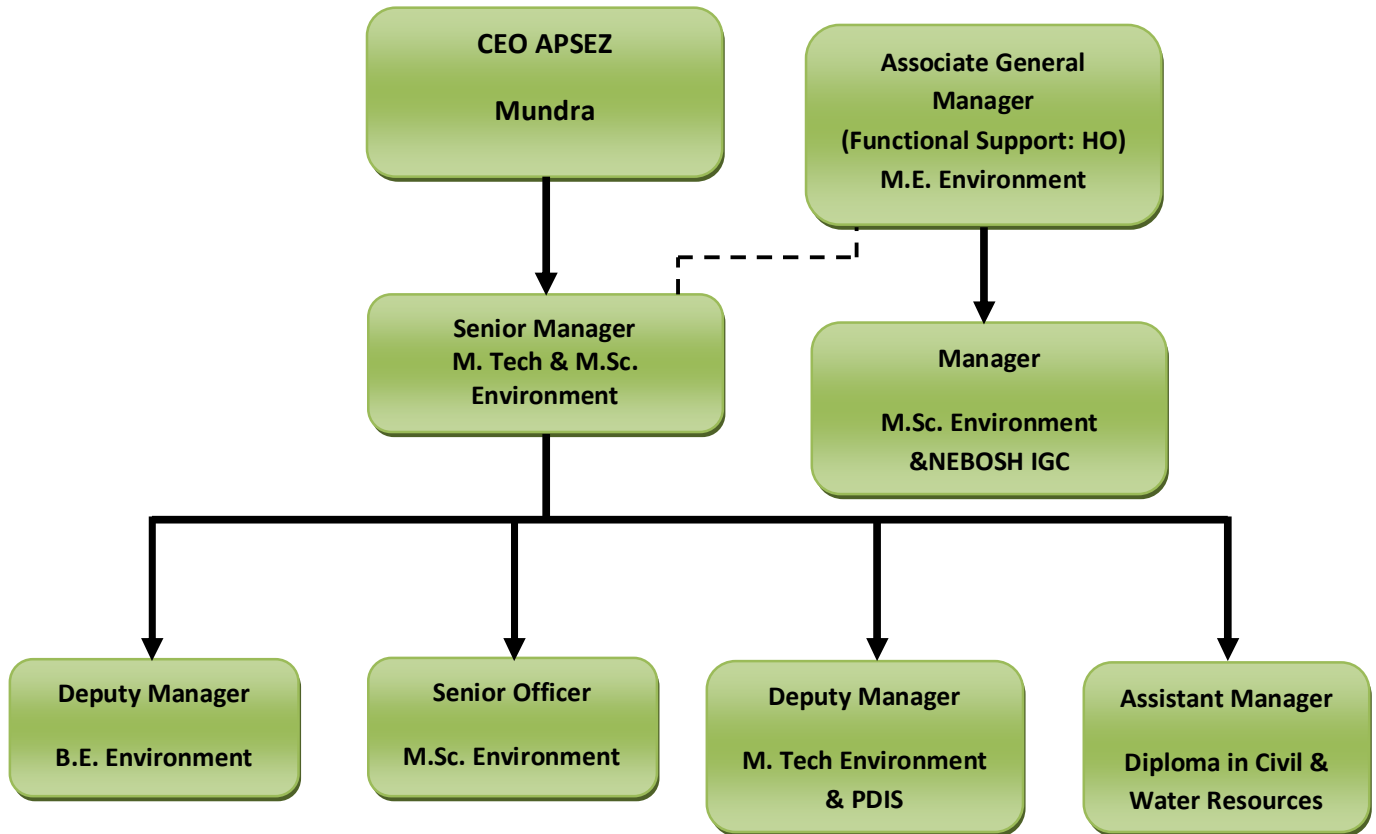


# **ANNEXURE – 9**

Date	Location	Problems	Action Taken	Remarks
12/10/2018	Filter Feed Pump house at outlet	Filter Feed Pump house pump no. 3 was stopped due to lovejoy couple break up.	New lovejoy couple replaced instead of damaged one.	
1/4/2019	Secondary Clarifier to Chlorination Tank	Secondary clarifier to chlorination flow decreased due to valve 250mm choke up due to impurities.	Impurities and dusts cleaning work done.	
2/4/2019	Sludge Drying Bed	Sludge chamber no.3 to sludge drying beds HDPE line leakage from joint.	HDPE pipe 110mm joint work done	
2/6/2019	Neutralization Tank	Tank cleaning work due to air grids chockup by sludge.	Sludge removed from bottom of Neutralization Tank.	
2/7/2019	Neutralization Tank	Blower to tank airline flange and valve not working properly	Airline flange and valve 50mm replaced.	 
3/3/2019	Chlorination Tank	Hypo chloride dosing by manual system.	For Chlorination dosing pump installed as per suggested by GPCB.	
4/3/2019	Filter Feed Pump house at outlet	Filter Feed Pump house pump no. 3 was stopped due to spider damaged.	New spider L-100 replaced.	

# **ANNEXURE – 10**

**Organogram of Environment Management Cell, APSEZ, Mundra**



# **ANNEXURE – 11**

### **Cost of Environmental Protection Measures**

Sr. No.	Activity	Cost incurred (INR in Lacs)			Budgeted Cost (INR in Lacs)
		2016 – 17	2017 – 18	2018 – 19	2018 – 19
1.	Environmental Study / Audit and Consultancy	36.78	9.0	6.7	30.5
2.	Legal & Statutory Expenses	4.76	5.07	4.42	5.7
3.	Environmental Monitoring Services	27.95	27.02	20.36	36.0
4.	Hazardous / Non Hazardous Waste Management & Disposal	12.52	65.62	95.72	84.8
5.	Environment Days Celebration	6.71	2.85	0.28	10.0
6.	Treatment and Disposal of Bio-Medical Waste	1.27	1.13	1.21	1.56
7.	Mangrove Plantation, Monitoring & Conservation	72.38	60.0	47.0	50.0
8.	Other Horticulture Expenses	555.00	547.0	579.32	579.32
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	144.29	153.9
10.	Expenditure of Environment Dept. (Apart from above head)	131.83	102.15	109.28	117.29
<b>Total</b>		<b>910.70</b>	<b>889.86</b>	<b>1008.58</b>	<b>1069.07</b>



# **ANNEXURE – 12**

# Adani Foundation, Mundra

**adani**  
Foundation



## ANNUAL REPORT 2018-19

For a better tomorrow

**Adani Foundation**

Adani House, Port Road, Mundra – Kutch 370 421

[[info@adanifoundation.com](mailto:info@adanifoundation.com)] [[www.adanifoundation.com](http://www.adanifoundation.com)]

# Our Journey

The year 2018-19 has passed off with passion and courage to work for the commitment given to the community. It is essential that sustained growth is achieved at rural level along with the industrial development. This can be made possible by involving more and more people in the rural development programme.

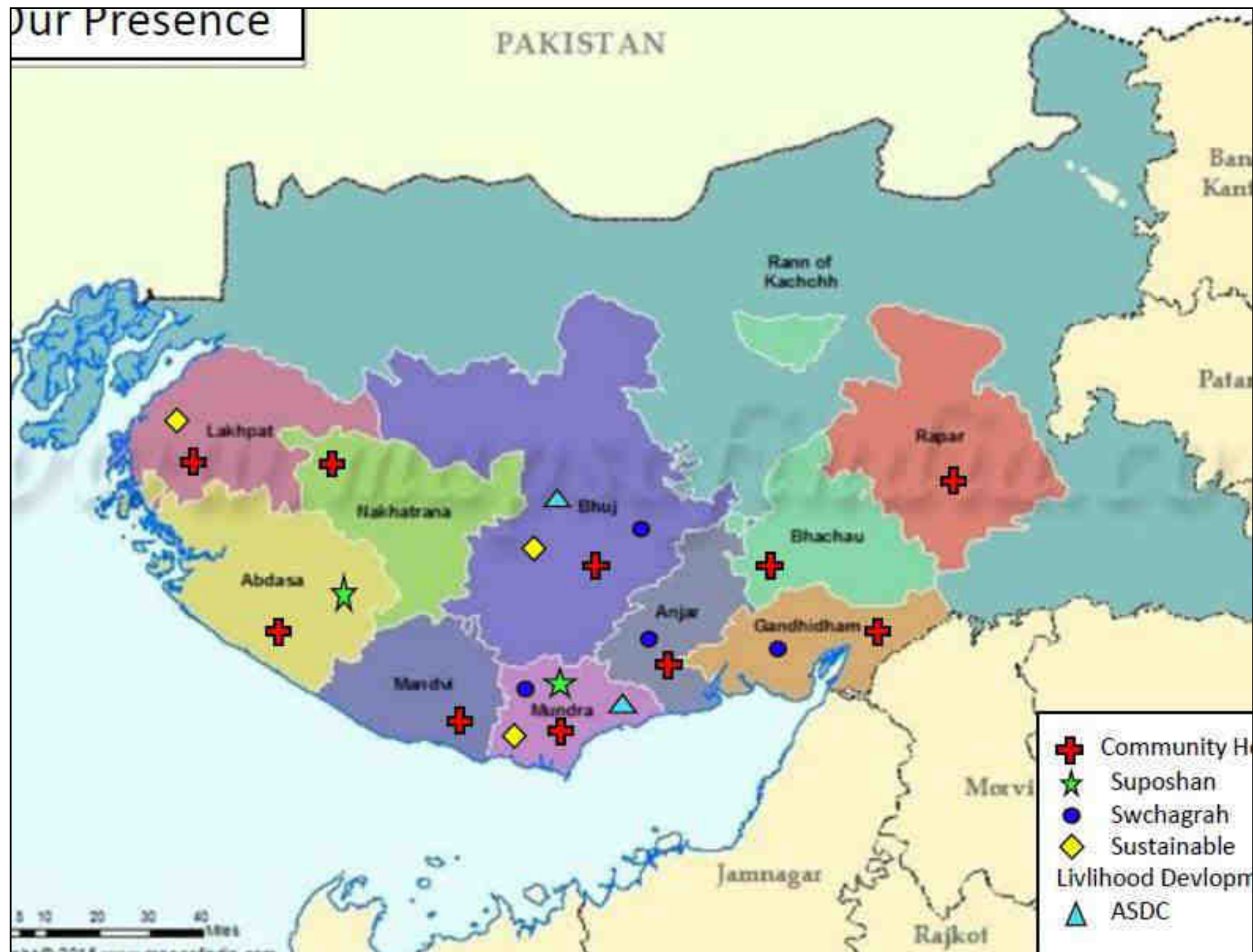
Since 1996, The Adani Foundation Mundra is committed to the cause of the deprived and underprivileged. It has been working relentlessly across 6 Talukas, covering 81 villages, to uplift the lives of more than 42,000 families with a multi-faceted approach.

This year conceded with more streamline projects of Education i.e. Utthan – to enhance primary education of 17 schools of Mundra, milestone achievement in malnourishment project, Launched Swachhagraha in four talukas and 400 schools of Kutchh, considerable impact created by fisherman amenities projects and new era defined in agriculture projects i.e. tissue culture and fodder sustainability .

The people of Kutch, especially that of Mundra, have generously supported the activities carried out by the Adani Group or else this wouldn't have been possible. Their determination, understanding and commitment have strengthened the development even more.

Thanks to Mr. Rakshit Shah and Mr. Avinash Rai for being mentor of the team Always !

Our Achievement would not be possible without the ultimate support by Mr. P N Roy Chaudhry, Executive Director - AF and plentiful faith and passionate support by Dr. (Mrs.) Priti G Adani, Chairperson– Adani Foundation



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# Education

## Beneficiaries Detail



🚦 2598 Students	: 17 Schools Utthan
🚦 2300 Enrollment Kit	: 118 Schools
🚦 704 Students	: Dignity of Workforce
🚦 345 Mothers	: Mother's meet
🚦 5542 Students	: 116 Institute Udaan
🚦 387 Students	: Adani Vidya Mandir
🚦 206 Teachers	: Guruvandana- I,II,III,IV



# Project Utthan

**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.



# Kick Start of “Utthan”

School improvement and teachers development is a multilayered approach. Therefore, school reform and initiative need to be carefully planned and executed by involving all stakeholders. In the process of implementing school improvement programme, teachers play critical role in institutionalizing change initiative.

A number of activities have been taken into account bring about change and enhance quality education in schools by Government, NGO and CSR,

From Year 2018 – Government of Gujrat has given responsibility through memorandum of understanding of 17 Schools for academic and overall development of school under Project “Uthhan” to Adani Foundation. Many workshops and training programmes are organized to improve the quality of education and support government schools.

In Utthan, main focus on upbringing of students (Priya Vidhyarthi) to the minimum level of reading, writing and counting (Vachan, Lekhan and Ganan). For making this mission successful, para teacher is appointed for each school.

Apart from this, English is introduced from standard first to create strong base. Also distributed science kit, sports kit, music kit to all 17 schools along with library cupboard and 100 books.

Smart class is given to all 17 schools with proper training to teachers for optimum utilization.



## 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, Ganan and Lekhan strengthening in Priya students
- Education department of Gujarat government will include activity based learning in regular course curriculum.

## 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



# 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, YMC school, AVMB and two villages of Mandvi Taluka (118 Schools) 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.





Summary of year 2018-19 for Project "UDAAN"						
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
7	Oct -18	29	1318	682	107	2107
8	Nov - 18	26	1045	575	87	1707
9	Dec - 18	33	1052	928	110	2090
10	Jan - 19	31	1250	763	113	2126
11	Feb - 19	31	1196	577	96	1869
12	Mar - 19	31	1274	585	104	1963
Total		355	14809	8134	1269	24212
Local 2018-19		201	5543	3710	467	9720
Total						33932

## 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 Gujrat.

Total 3270 educational institutes has visited and 236032 beneficiaries of the project till date and 33932 beneficiaries during current year.





# Adani Vidya Mandir, Bhadreshwar

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

In Bhadreshwar, Mundra, the Adani Vidyamandir has completely revolutionized the education scenario. Only the children of families with an income of less than 1.5 lakh are admitted to this school. Along with quality education, the school also focuses on providing nutritious food, uniforms and other services to the children for free. Currently, 387 students, from Std. 1 to Std. 10 are studying in the school. Out of these 134 children come from the fisher folk community. Many students are the first generation in their families to attend school.



### AVMB Std.-10 Second Batch Result 2018-19

Adani Vidya Mandir Bhadreshwar achievement in Gujrat Board Standard 10th Examination Result 92% (25 students have passed the examination out of 27). Adani Foundation will take all responsibility of further study of students with respect to their interest.

AVMB STD - 10 SECOND BATCH RESULT		
Year 2017-2018		
SR NO	GRADE	STUDENTS
1	Above 80 %	1
2	Above 70 %	3
3	Above 60 %	5
4	Above 50 %	9
5	Above 40 %	7
6	Fail	2
	TOTAL	27



# ENVIRONMENT SUSTANABILITY

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 radious villages from SEZ Boundaries.

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





# SUJLAM SUFLAM JAL ABHIYAN

The state government announced its 31-day water conservation drive called 'Sujlam Suflam Jal Abhiyan'. The campaign was 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 and also to create storage capacity in existing village pond.

Inauguration by GOG, Hon'ble Minister, MLA and DM Kutch and other guest day on 1st may at Gundala village taluka Mundra by Adani foundation, Mundra

During 1st may to 31st may AF Mundra had completed deepening work in 26 pond works as per given target by District Collector Kutch in 19 villages. Total excavation done 51723 Cum. Total storage capacity created 51.72 million liters. These works done as per government guidelines.





Borana- Artificial bore well recharge –work completed



Mangara- Artificial bore well recharge – work completed



Dhrub- pond deepening work – work completed

## 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.



# 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 Kutchh 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 Kutchh 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 Kutchh 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 Kutchh region.



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 gymnorhiza</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					

# Community Health Mundra



Project Details	Beneficiaries (Nos.)	Remarks
Mobile Van	19092	OPD Numbers
Rural Clinic	22256	OPD Numbers
Senior Citizen	10161	Transactions
Medical Camps	4384	Patients
Awareness Sessions	987	Participants
Needy Patients Support	1022	OPD/IPD
Shakti Raksha Project	624	Breast n cervix Cancer
Dialysis	5	Patients (2 times a week)
Suposhan	17025	Mundra and Bitta

Total beneficiaries : 75556





**Healthy mind remain in healthy body which create healthy community to make healthy Nation.**

Adani Foundation relentlessly working for community in health care area through various kind of activities i.e. Mobile Dispensaries, Rural Clinics, Special Innovative Projects - Health Card to Senior Citizens, "SuPoshan"- Fighting to Mal nourishment in Mundra and support to dialysis patients projects. Adani Foundation also organizes special medical camps during disease outbreak.



# 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 mobile health care units. Main objective of Mobile Van is to reduce travel time, hardships and expenses. Mobile health care units cover 34 villages and 05 fishermen settlements. Around 109 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.

Month	Mobile Van	Rural Clinic
Apr-18	1508	1466
May-18	1397	1491
Jun-18	1236	1533
Jul-18	1523	2166
Aug-18	1512	2103
Sep-18	1796	1726
Oct-18	1832	2068
Nov-18	1386	1628
Dec-18	1897	2187
Jan-19	1684	2013
Feb-19	1743	2037
Mar-19	1578	1821
Total	19092	22256

# Mobile Dispensaries & Rural Clinics



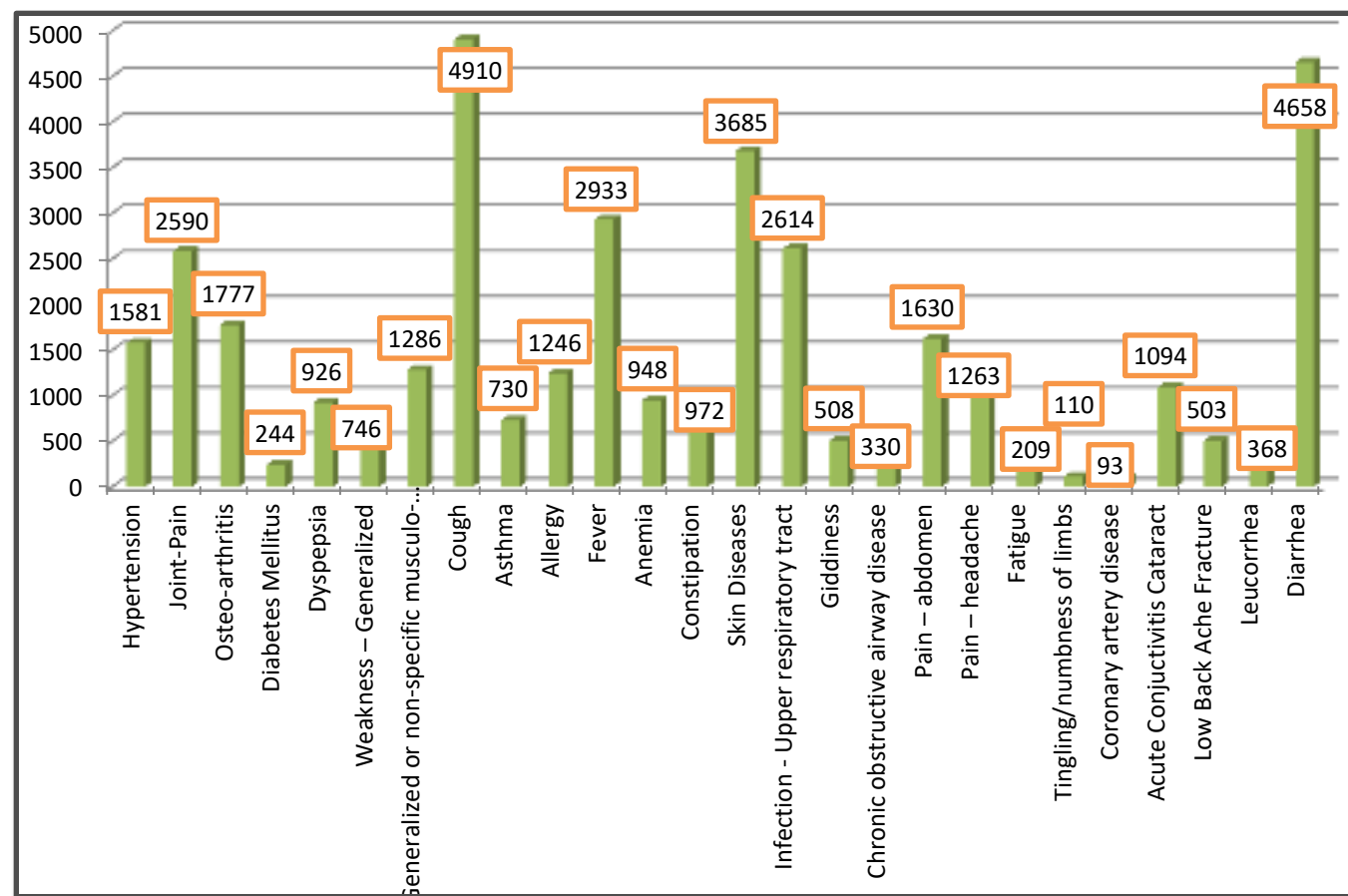
The Adani Foundation operates Rural Dispensaries in 08 villages of Mundra block, 03 villages of Anjar block and 01 village of Mandvi block along with one at Rangoli gate. At these dispensaries, health services are provided free of charge for two hours daily by a doctor and a volunteer.

Sr.No	Villages Name	Total
1	Rangoli Gate	510
2	Luni	6,203
3	Wandh	1,272
4	Siracha	3,794
5	Vadala	1,513
6	Bhadreshwar	1,411
7	Tuna	743
8	Vandi	1,443
9	Rampar	519
10	Tunda	831
11	Tragadi	893
12	Navinal	1,732
13	Labour Colony	53
Total		22,256

Diagnosis	MV	RC	Total
Hypertension	664	917	1581
Joint-Pain	978	1612	2590
Osteo-arthritis	979	798	1777
Diabetes Mellitus	72	172	244
Dyspepsia	699	227	926
Weakness – Generalized	164	582	746
Generalized or non-specific musculo-skeletal pain	430	856	1286
Cough	2478	2432	4910
Asthma	292	438	730
Allergy	266	980	1246
Fever	1404	1529	2933
Anemia	525	423	948
Constipation	406	566	972
Skin Diseases	1980	1705	3685
Infection - Upper respiratory tract	899	1715	2614
Giddiness	220	288	508
Chronic obstructive airway disease	36	294	330
Pain – abdomen	703	927	1630
Pain – headache	589	674	1263
Fatigue	93	116	209
Tingling/numbness of limbs	25	85	110
Coronary artery disease	16	77	93
Acute Conjunctivitis Cataract	831	263	1094
Low Back Ache Fracture	333	170	503
Leucorrhea	298	70	368
Diarrhea	2134	2524	4658
<b>Total</b>	<b>17514</b>	<b>20440</b>	<b>37954</b>

## Mobile Dispensaries & Rural Clinics

MV & RC Disease specific pattern reported in the month April-18 to March-19







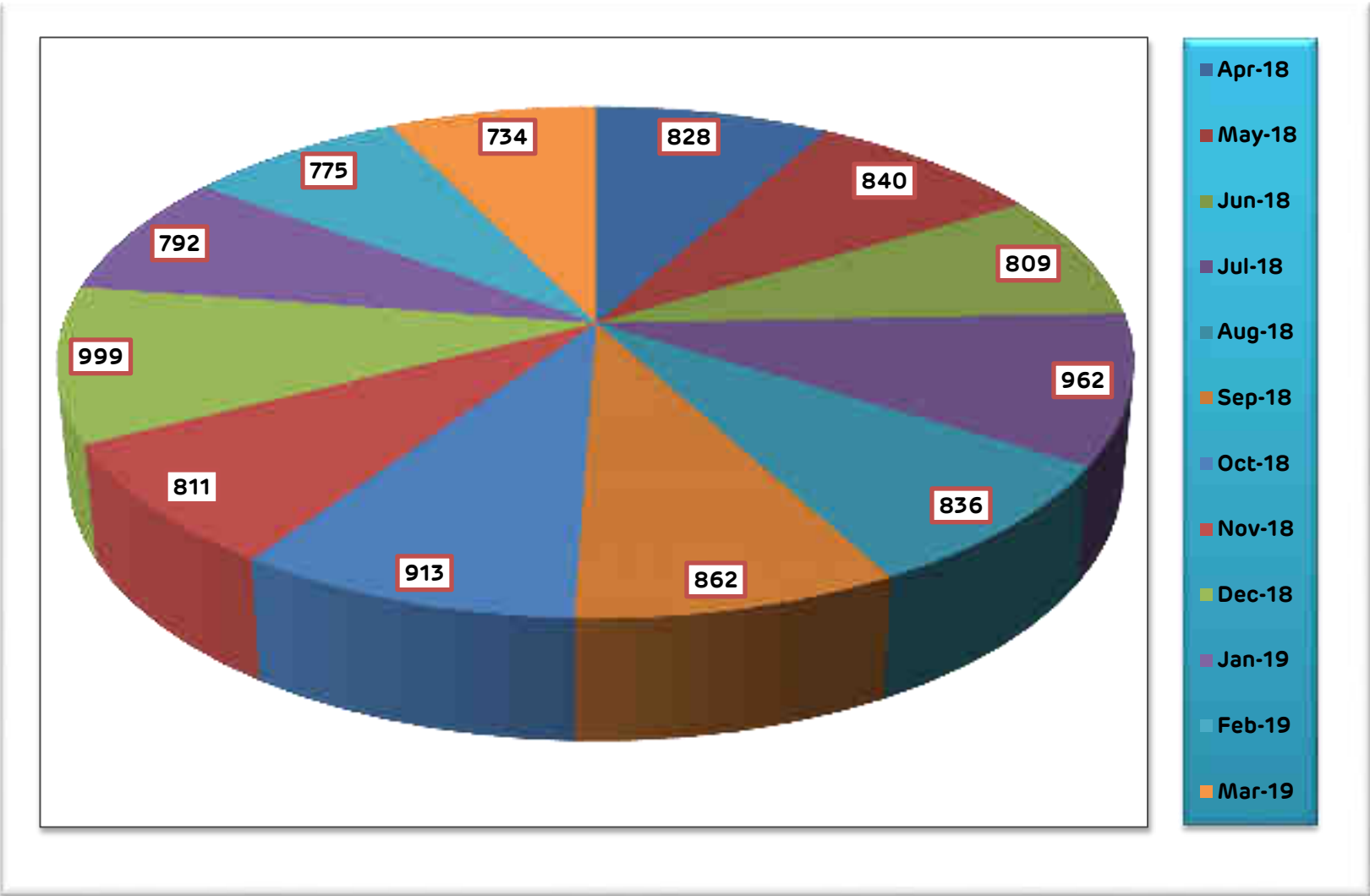
## Health Cards to Senior Citizens

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 Vadil 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 year 2018-19, total 10161 transactions were done by 8599 card holders of 66 villages of Mundra Taluka.** They received cash less medical services under this project Scheme is continue since eight 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

# Sr.Citizen card utilization status April-18 to March-19

Month	OPD/IPD
Apr-18	828
May-18	840
Jun-18	809
Jul-18	962
Aug-18	836
Sep-18	862
Oct-18	913
Nov-18	811
Dec-18	999
Jan-19	792
Feb-19	775
Mar-19	734
Total	10161



# Suposhan

Suposhan Project endeavors to address the issue of vicious cycle of Malnutrition and Anemia with a life cycle approach that includes community based management. The project is more focused on preventive measures.

Objective of the Project is to reduce occurrence of malnutrition and anemia. For successful implementation of the project, "Sangini – Village Health Volunteer" plays major role in the Project.

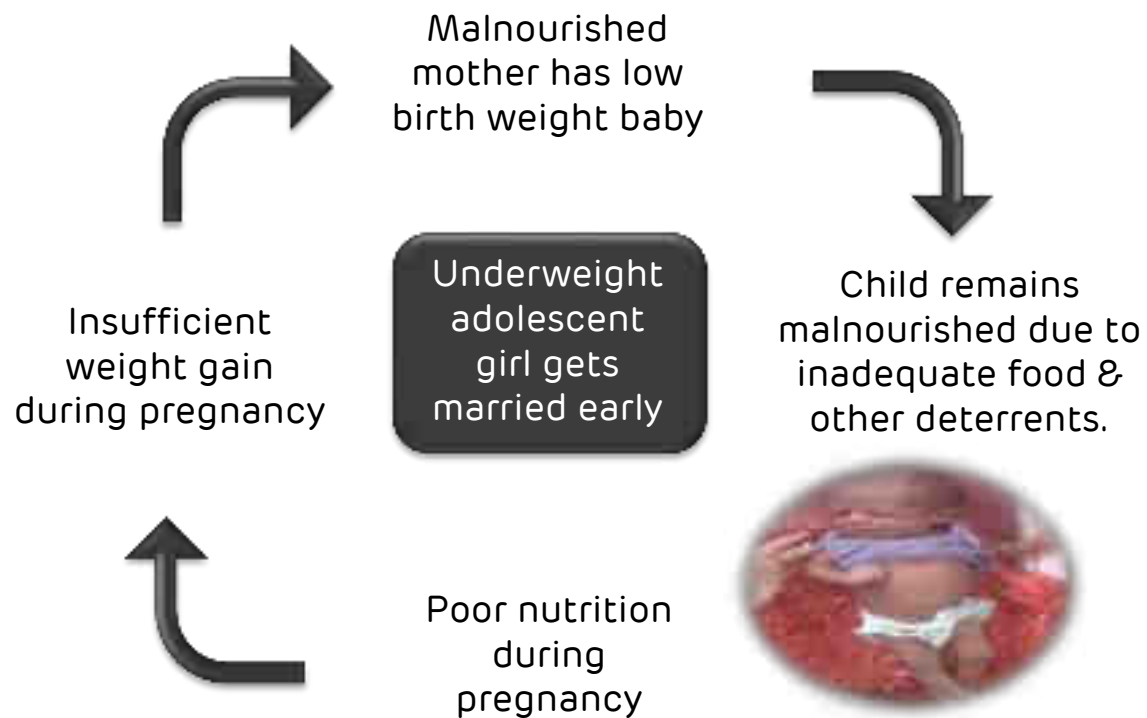
Mundra : 61 Villages

Bitta : 7 Villages

Beneficiaries : 17025

No	Detail	Mundra	Bitta	Total
1	Anthropometric(Children)	5901	647	6548
2	Adolescent – HB Testing	2950	395	3345
3	RPA – HB Testing	5884	1109	6993
4	SAM / MAM to NORMAL	104	35	139
5	FGD	737	228	965





A child's entire life is determined in large measures by the food given to him/her during his/her first five years because childhood is the period of rapid growth and development. Nutrition is one of the most influencing factors in this period. Malnutrition substantially raises the risk of infant and child deaths, and increases the vulnerability to a variety of diseases in later life.

Project Suposhan is initiated with the Motive ....

**Curb malnutrition amongst Children, Adolescent girls and Women in our CSR villages.**

- **To reduce malnutrition and anaemia amongst Children 95 % & adolescent girls and pregnant & lactating women by 70 % in three years**
- **Reduction IMR and MMR**
- **Support Awareness & Cover 100 % Vaccination taken by Child & women.**
- **Interventions with ICDS and Taluka health Office**
  - CMTC Center started again after our written request to DDO Office
  - Distribution of EDF( Energy Dense Food) by THO to 23 Children who are in SAM Category



# Community Engagement Activity





# 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 Breast Feeding



# Specialty camp, General Camp & Surgical Health Camp

Sr.no.	Place	Villages Name	Total Patinets
1	Jat Malek Muslim & Maheshari Samuha Sadi At Mundra	Mundra	178
2	Maleria Camp Sukhpar Mundra	Mundra	36
3	Karva E Mustfa Hospital Health Camp	Mundra	50
4	Mahesh Nagar Primary School	Mundra	190
5	Muslim Jamat Samuh Sadi, Luni	Luni	40
6	Rotary Hall, Mundra Surgical Mega Camp	Mundra	185
7	Mithani Labour colony Health camp	Dhrub	80
8	Shri Swaminarayan Mandir-Baroi Boad	Baroi	191
9	Mithani Labour colony Health camp	Dhrub	105
10	Jain Derasar, Oshwal Seri	Mundra	56
11	Bava Gor Pir Uras Luni	Luni	525
12	Mundra Kadva Patidar Samajvadi Health Camp	Mundra	92
13	Nana Kapaya Primary school health camp with Rotry club	Nana Kapaya	170
14	Luni Maheshwari Samaj Samuh Iagan	Luni	517
15	Bukhari pir uras	Mundra	106
16	Activity Hall Gundala	Gundala	65
17	Ashlambhai Labour colony Health camp	Dhrub	315
18	sonal Bij Health Facility	Zarpara	2
19	Ayushman bharat camp Zarpara Panchyat	Zarpara	19
20	Kapilbhai Labour colony Health camp	Dhrub	140
21	Surgical Mega Camp- Art-comace college	Mundra	109
22	Ayushman bharat camp Art-comace college	Mundra	28
23	Juna Bandar Health camp	Mundra	105
24	Eye checkup camp with THO & Rotry	Mundra	388
25	Vallabha vidyalay Health camp	Dhrab	485
26	General health camp	Juna bandar	107
<b>Total...</b>			<b>4384</b>



# 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 5 Patients were being supported for regular dialysis (twice in a week) by participatory approach.

# Health Awareness season Programme

Awareness generation program play crucial role to creak and achieve social transformation for same to create awareness about Health and critical disease various kind of session had been organized.

Sr.no.	Session Topic	Villages Name	Total Beneficiaries
1	Woman Health	Bocha	35
2	Brest & Cervical Cancer & Woman Health	Lifra	20
3	Brest & Cervical Cancer & Woman Health	Desalpar	25
4	Woman Health	Dhrub	28
5	Woman Health	Mundra	125
6	Health & Hygine awareness session	Mota Kandagara	51
7	Anaemic & Suposhan	Samaghogha	50
8	Beast Censor Awareness	Nani Bhujpur	40
9	Gyneac Awareness	Mundra	28
10	Beast Censor Awareness	Dhrub	30
11	Health & Hygiene awareness session	Pragpar-2	20
12	Health & Hygiene awareness session	Wandh	155
13	Swain flu awareness season	Nana kapaya	390
<b>Total....</b>			<b>987</b>

# Community Health Bhuj



- ② **5274 Patient Care and Coordination**
- ② **48 Health Camps 25000 beneficiaries**
- ② **543 Dead body referred by carry van**
- ② **272 Ayushman Gold Card facilitation**
- ② **631 Needy patient support**
- ② **3560 Mahiti Setu**
- ② **1137 Students School health Camps**
- ② **36417 Direct Beneficiaries**
- ② **Covered 293 Villages**



# 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.





- 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 **48 General Health Camps and Speciality Camps in various interior villages of Kutch in coordination with GKGH which created magical impact and benefitted 25000 patients.** Adani Foundation Bhuj Health team has also organized more than Eleven 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 543 dead bodies privileged till now to different locations in Kutch.



# Patent Care and coordination



Sr. No.	Month	Total Patient Special Care in OPD and IPD level
1	April to June	1190
2	July to September	1507
3	October to December	1505
4	January to March	1072

In the financial year 18-19 we specially care total 5274 patients from our sites Mundra, bitta and tuna,

## Ayushman Yojana

As soon as Government announced for Ayushman Yojana, we started process to enroll Golden card to the eligible families by organizing camps at village level in each taluka

Sr. No.	Month	Total no's ayushman card enrolment
1	December	145
2	January	20
3	February	42
4	March	65
Total		272



# 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 provided by Taluka health office.

We have covered total 624 patients and 120 cases were referred to GKGH Bhuj. In which two cases diagnosed with breast lump (not malignant).

Sr.No	Place	Gaynec	Thelesmia testing	Total Beneficiary	GAMIS Refar Patients
1	Mundra CHC	62	34	118	25
2	Zarpara PHC	26	6	32	5
3	Moti Bhujpur PHC	54	15	86	18
4	Mota Kandagara PHC	42	11	53	10
5	Nani Tumbadi PHC	55	14	69	12
6	Vanki PHC	48	7	55	8
7	Ratadiya PHC	79	11	90	17
8	Bhadreshwar PHC	52	14	66	11
9	Adani Hospital Mundra	183	0	183	11
10	GEB PHC sub center	23	0	23	3
<b>Total....</b>		<b>624</b>	<b>112</b>	<b>775</b>	<b>120</b>





# School Health Camp

``Safe child``

Adani Foundation is regularly organizing health camps in primary government school with support of GKGH.

Current year we have carried out check up of 1137 students in Bhuj Taluka.

Month	Nos of camps	Nos of School students
August	1	219
September	2	308
November	2	410
December	1	200
Total	6	1137



## 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. (2144 Direct beneficiaries)

Day	Date	Event Name	Detail about Event	Beneficiaries
1	8 <sup>th</sup> August 2018	Specialty Mega Camp	Specialist doctors i.e. Gynaecologist, Paediatrician, Nephrologists and general surgeon from GKGH had extended their services.	218
2	9 <sup>th</sup> 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 <sup>th</sup> August 2018	Haemoglobin Testing camp	Haemoglobin testing and awareness for de warming of 917 adolescent girls at Rapar village.	917
4	11 <sup>th</sup> 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. 2. On occasion of Adani foundation ay session for Road accident awareness and safety including primary health check up camp was organized at Nakhatrana.	223 172
5	12 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> August 2018	Asha Worker workshop	Capacity building workshop was organized for ASHA workers of urban and rural bhuj.	150

## Arogya Saptah (19th – 28th January 2019)

Adani foundation, Adani Hospital and GAIMS have Jointly Celebrated "Arogya Saptah" 19<sup>th</sup> – 28<sup>th</sup> January 2019 in Respect of Republic day 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. (Direct beneficiaries – 1342)

Day	Date	Event Name	Detail about Event	Beneficiaries
1	19 <sup>th</sup> January 2019	Workshop for Counseling for Overcome Exam fear.	Workshop Dr.Prutha Deshai (Psychiatrist) she explained about how to reduce Exam Fear and Stress.	250
2	20 <sup>th</sup> January 2019	Cataract Detraction Camp	Cataract Detection Camp organized at khavda village. In this camp 12 patients were referred in GAIMS hospital Bhuj for further treatment.	322
3	20 <sup>th</sup> January 2019	Surgical Camp Mundra	Specialist Doctors from Adani Hospital Mundra and Medical officers of Adani foundation had extended their services.	78
4	21 <sup>st</sup> January 2019	Medical Checkup Camp Swaminarayan Temple	All Shankhyogini Women from Swaminarayan Temple Bhuj were examined by gynecologist and Total blood check up was organized.	209
5	22 <sup>nd</sup> January 2019	Infection Control Awareness Training	Conducted Training on infection control and antibiotic medicine by Dr Gurudas Khilnani and Dr. Kashyap Buch .	170
6	23 <sup>rd</sup> January 2019	Anganwadi worker and Asha Training	Training of ASHA and Anganwadi worker conducted by Dr. Hashmukh Chauhan and Dr. Shardul chorasiya.	25
7	24 <sup>th</sup> January 2019	Multi Specialty Health Camp	Multi speciality Camp was organized at Rapar in which Gynec, Eye Specialist, physician and orthopaedic Doctors had extended their services	203
8	25 <sup>th</sup> January 2019	Medical Checkup camp of journalist and family	This unique initiative covered all journalists of Kutchhh for health check up and awareness sessions	85



# Glimpse of health week



# Mahiti Setu



Sr. No.	Month	Total
1	November	814
2	December	814
3	January	764
4	February	889
5	March	279
		3560

## "Mahiti Setu"

Objective of Community resource center is to leverage the Government Schemes and making them accessible to community – It's a sustainable community connect!

Mahiti Setu has created trust and easy access to various government schemes – outreach will increase with time and awareness.



# SUSTAINABLE LIVELIHOOD DEVELOPMENT PROGRAM

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. In the villages at Mundra Taluka, several communities are economically side-lined and weaker that depend on a sole income source or are unemployed. Sustainable livelihood projects have been launched to cater financial independence through building local partnerships, providing diverse livelihood avenues, inculcate the attitude to establish savings, equipping to earn and updating local skills by making use of existing resources to encourage self-reliant lifestyles. Participation is encouraged by launching specific projects for fishermen communities, farmers and cattle owners, youth and women.



# Fisherman Amenities work



- 🚧 391 Students : Education Support
- 🚧 134 Stunners : Adani Vidya Mandir \*
- 🚧 16 Fisherman : Alternate livelihood
- 🚧 78 Fisherwomen : Linkages for schemes
- 🚧 1312 Fisherman : Community Engagement
- 🚧 1086 Fisherman : Potable water provision
- 🚧 6261 Mandays : Mangroves Plantation \*
- 🚧 231 Fisherman : Capacity Building
- 🚧 3280 Direct Beneficiaries

166 Fisherman for mangroves planation  
AVMB beneficiaries can count seprately

# 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	27
4	Bavadi bandar	30
Total		137



## 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.



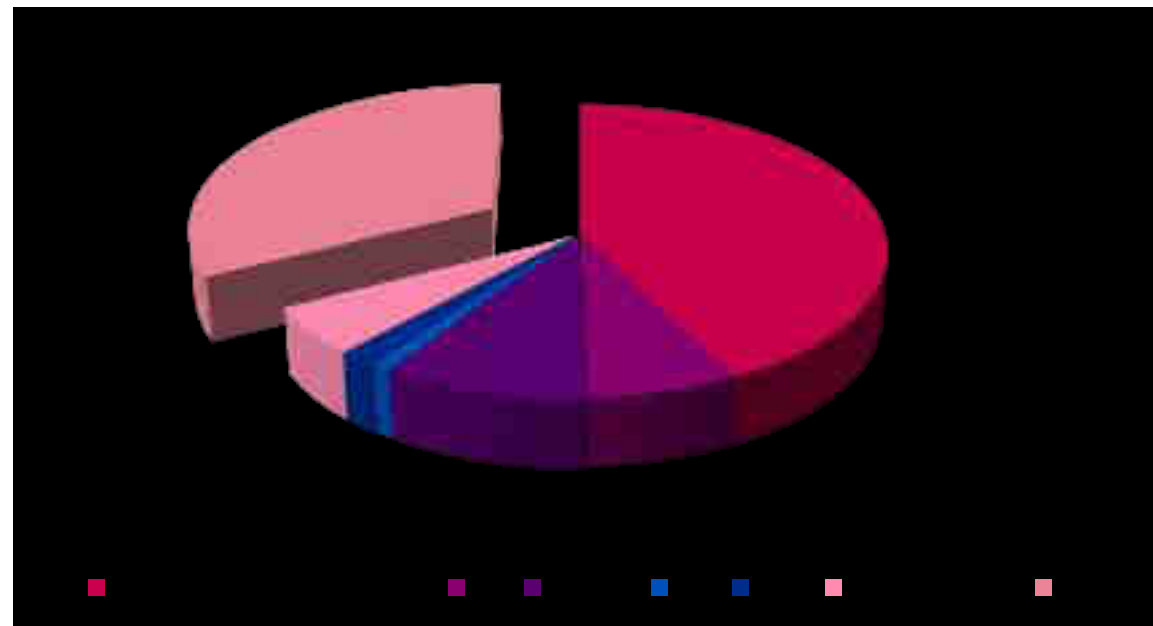


## Vidya Sahay Yojana- Scholarship Support

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.

This year 68 students were given book support and 8 students were given cycle support for higher secondary study.

## Education Analysis



Rather than learn their children, fishermen joined them in their traditional business due to lack of awareness. But Since Adani foundation has started various kind of education initiative like Balwadi , Scholarship support, Cycle support, Book support, free education in AVMB, Transportation support, skill development training ,we bring them in the Ocean of education. By the job placement and motivation we can transform 37 fishermen youth life who have good job and others one continue their further study as below.

# 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 then 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 560 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 **114 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 **350 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.



## 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 (By APSEZ)	30,000
2	Luni Bandar	15,000
3	Randh Bandar	25,000
4	Bavadi Bandar	15,000
5	Veera Bandar ( By AKBTPL)	10,000
6	Ghavarvaro Bandar (By AKBTPL)	8,000
7	Kutdi Bandar (By MSPVL)	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

## 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.

Sr. No	Course Name	No of Students
1	Mud work Zarpara	45
2	Dori work, Navinal	20
3	Checker Cum RTG Crane Operator	03
Total		68





## 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 6261 man-days. In addition to this, employment worth of 35787 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 *Acetus 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

## 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.

## Sea weed culture

Sea weed culture as alternate livelihood for fishermen has been started as pilot base with Vivekananda Research and Training Institute.

To create Fishermen alternate livelihood seaweed raft have been installed at Juna Bandar. After successful results we will support for more raft to fisherman as off season employment.

Natural sea weed which is available at Luni coast and being obstacle in fish net is collected and linkages with VRTI for selling.





# Sorting Sieve : Time Saving for Fisher Women

During bulk fishing catch fisher women remain engage whole day to sort out fishes by hand this is time consuming and panic for them so, we provide wooden sorting sieve to sort out small fishes, which make them free from finger pain and time saving.

Adani foundation Mundra, Fisheries Department GOG & CMFRI(Central Marine Fisheries Research Institute) had organized sessions for alternate livelihood for fisher women, importance of savings, bank account and also usage of sieve for Fish sorting work along with 78 wooden sorting sieve distribution. Dr. Imelda Joseph, head & principal scientist of CMFRI, Cochin, Dr. Diu incharge of CMFRI, Veraval and their team had given guidance to all fisher women of Juna Bandar for alternate livelihood possibilities with examples.



## Fisherman Ramatotsav

To Development of physical and mental Development of youth Ramotsav week Program was organized at various Vasahat i.e Junabandar, Luni, Zarapara, Bavdi Bandar and Navinal for 1<sup>st</sup> to 10 th standers .



This year Total 485 children were participated and all were facilitated with school bag as well as 1<sup>st</sup> ,2<sup>nd</sup> and 3<sup>rd</sup> prize from each game.

Fisherman Student Ramtotsav Programme-2018-19					
Date- 07-02-2019 to 16-02-2019					
Sr.No	Fishermen vasahat	Date	Students	Attendants	Total
1	Navinal	07-02-2019	47	150	197
2	Zarpara	08-02-2019	94	250	344
3	Zarpara( Chacha)	08-02-2019	81	300	381
4	Bavdibandar	11-02-2019	69	200	269
5	Lunibandar	12-02-2019	60	200	260
6	Junabandar	15-02-2019	134	350	484
Total			485	1450	1935

# Agriculture & Animal Husbandry



- ❑ 755 Acre – 164 Farmers Drip Irrigation
- ❑ 380 Acre – 212 Farmers Maize Cultivation
- ❑ 56 Acre - 140 Farmers NB21
- ❑ 24 farmers Organic Farming
- ❑ 21 Numbers Bio gas Provision
- ❑ 387 IG Support and Sadhay Sahay
- ❑ 142 Central Govt. Scheme Beneficiaries
- ❑ 154 Pension Scheme Linkages
- ❑ 132 Women Empowerment Project
- ❑ **1364 Direct Beneficiaries**



# Drive for Technology to use in agriculture



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.

- We have initiated Programme for Awareness of Farmers in collaboration with KVK. The outreach is approximate 80 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	40
2	Zarapara	42
3	Siracha-	26
4	Navinal	22
5	Dhrub	141
		271

# 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 1,78,000 man fodder worth Rs. 402.00 Lacs approximately at Mundra, Lakhpur, Anjar, Abdasa and Rapar Taluka

But, For this Critical Condition some Sustainable Solution is required to find out

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 180 Individual  
(Supported for seeds of Makai for 180 acre land)
- (b) Winter Crop Cultivation – Support to Group of Farmers (200  
acre of land with 32 farmers)

We are also planning for grassland development at Village Zarpara and Siracha in Gauchar with mutual understanding with Gram Panchayat.

#### **Win win situation of this project**

- Cost saving initiative: Financial saving by Rs. 7.23 lac in three months. (15%)
- Assured of green fodder and supply
- Empowerment of farmers by providing livelihood
- Increase of Green fodder cover
- Milk productivity enhancement
- Fulfilment of double the farmer income concept of Govt. of India
- Crop rotation increases the soil fertility





# 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 covered 164 farmers and 755 acre drip irrigation area.**





# Biogas

Biogas is a clean, non-polluting and low cost fuel. It contains about 55 to 75 percent methane, which is inflammable. Bio gas can be produced from cattle dung, human waste and other organic matter by a process called "Anaerobic digestion" which takes place in a biogas plant. The digested effluent, which comes out of the plant, is enriched manure.

The Multiple benefits of the biogas have changed many lives in rural areas. During this year 21 plants have been constructed. We are providing support addition to Government support to the beneficiary. (Under bio-gas scheme of government, the total cost is Rs.33, 500 out of which Rs.15, 000 will be granted by the government and out of the pending amount of Rs.18, 500 sum of Rs.10, 000 will be contributed by the Adani Foundation. The beneficiary will have to pay only Rs. 8, 500). Beneficiary women use the time, saved from cooking and fuelwood collection, to take up an additional economic activities.

Representation of Adani Foundation was invited as Guest of honor by Krishi Vigyan Kendra in 'Scientific Advisory Committee Meeting' . Main Objective of meeting was to study about present agricultural Scenario of Kutchh and new CROP Patter. Representative from ICAR ,GOG and Various NGO were present. We made presentation of our activities for sustainable agriculture in this forum.





## Agriculture Fair



Adani Foundation has Participated in District Level Agriculture Fair for three days in first week of January. We had show case various activities of Adani Foundation in field of Fodder Sustainability, Bio Gas Support, Cattle care, water conservation and Biodiversity.

**Adani Foundation was felicitated award for " To Develop Unique Model for Fodder Sustainability in Kutchh".**

State Minister Mr. Vasanbhai Ahir has inaugurated this event. By this platform we could able to connect with approximately 12000 farmers of Kutchh District by providing guidance for NB21 and Maize Cultivation. We have also given information about Saheli Mahila Gruh Udyog and could also our products i.e. Eco Friendly bags, Banana Wafers and Washing powder.

## Tissue Culture

Date is the Amrut Fal of Kutchh and Mainly best quality available in some villages in Mundra Taluka. To maintain quality uniformity Adani Foundation is planning for cultivate 4000 tissue cultured plants of elite varieties to the farmers of project area. For this, we will select best offshoots of elite plants from farmers fields in coordination with farmers groups. The selected planting materials will be given to identify tissue culture laboratory for developing tissue culture plants in 3 years. Hence, whole program is coordinating farmers participation basis having four party i.e. Tissue culture laboratory, Adani Foundation, KVK and farmers committee of project area. Major functions of all parties are as under;

• **TC Lab: Develop TC plantlets of elite varieties** • **Adani foundation: Financial support** • **KVK : Technical support to the program**

Farmers committee : Provide best planting materials for developing TC plants & contribution in distribution & provide nominal cost of plants. Hence, the farmers contribution in the program is 10 Lakh.

Ground work for this project is completed during current financial year i.e. Registration of 200 farmers, series of meeting with KVK and Anand University





# 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!!
- 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. This year 154 beneficiaries linked up with pension scheme.
- The financial benefit of the senior citizen Yojana is Rs. 500 per month and the widow scheme is of Rs. 1250 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



# 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 (**132 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 132 members total, 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.
- Main Perishable/ Non perishable items by Saheli are
  1. Washing Powder
  2. Phynayle
  3. Dish wash liquid
  4. Pickle of Bijora
  5. Suf handicraft
  6. Ahir Handicraft

## 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	Sadau	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
10	Mundra	Aaarambh	20		Suf Handicraft
			132	1100	



# Glimpse of Women Empowerment Projects

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





Adani Foundation launched programme AAARAMBH to revive the dying art form of Suf in a ceremony in Mundra, Kutch. Under this project, Adani Foundation will facilitate the training of about 30 women in the handicraft and also help them with market linkages to ensure sustained livelihood for them. On the occasion, Adani Foundation also launched a website made by the women themselves to market their products.

Suf handicraft was practiced in Kutchh District, Gujarat. Due to lack of patrons this handicraft has been dwindling. Suf handicraft is painstaking embroidery based on the shape of a triangle. Suf is counted on the wrap and weft of the cloth in a surface satin stitch worked from the back. Each artisan imagines her design and then counts it out in reverse.





# International Women's Day

## International Women's Day Celebration Mundra



International Women's Day has been celebrated by the Adani Foundation, Mundra with Integrated Child Development Scheme. Chief Guest of the event was Mr. Komal Singh (Commandant Coast Guard) and Ms. Ami Rakshit Shah (APS School). Distinguished Guest Mr. Vayda (Taluka Development Officer, Mundra)

On this momentous occasion the supervisors of ICDS were felicitated for their noble work. Adani Foundation also honored Eight women entrepreneurs who were supported by the Adani Foundation, Mundra for income generation.

The Adani Foundation Mundra was also facilitated by the ICDS for their remarkable work in field of women empowerment and Suposhan as well.

Additionally, In coordination with DDO, Kutchh Pradhanmantri Mandhan Yojana form filled up for @ 225 women – who will give benefit of pension of Rs. 3500 per month after age of 60 years. Our Suposhan Sangini remained present and guided about nutrition.

As a Matter of Celebration, Same Day ICDS Mundra got state level Mata Yashoda award at Gandhinagar for best Anganwadi work. Total 300 women attended the programme with great enthusiasm and Zeal.



## International Women's Day Celebration Bhuj

International Women's Day has been celebrated by the Adani Foundation, Bhuj with SOS Gada Village, Bhuj Engineering College as well as Army force Bhuj. Chief Guest of the event was Dr. Kunika Patel (Gynecologist GAIMS) and Dr. Rajendra Harnagar (Gynecologist GAIMS) and Distinguished Guest was Mr. Mishra (Airport Authority, Bhuj)

As a part of Bhuj and Lakhpat CSR celebration International Women's Day in Various place Bhuj Engineering collage, SOS village and Bhuj Airport. Awareness for Breast and cervical cancer, and health - hygiene. Total 230 women are benefitted in this awareness session. Also discussed about various psychological issues during menopause age and its solution.



# RURAL INFRASTRUCTURE DEVELOPMENT



**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 Sinh (Head – SEZ Operation) and other transporters remained present.





## RID – Dignity of Workforce

Present condition of migrated labour community of Adani port, power and Willmar is really matter of concern. They are living in pathetic condition. It is true that we cannot achieve our goal of development until we support to up bring lives of this community. Basic needs of this labour force needs to be address. In labour Vasahats they are not getting facility of pure drinking water, proper living condition, sanitation or proper living atmosphere. To build up trust and transparency in labour community, union labours and Smooth business operations and to create more efficiency by providing better living conditions Adani Foundation has constructed 45 Toilet block and proper bathing place for labours.

## Work Completed

- ✓ Road repairing various vasahat
- ✓ Open shed at Juna Bandar
- ✓ Sand Filling plot at JUNA BANDAR
- ✓ Concrete Step ladder at Juna Bandar
- ✓ House construction at Shekhadia
- ✓ Two approach road 5000 meter Zarpara Fishermen and 5000 meter Luni Pagadiya
- ✓ Drinking water storage tank 5000 ltr capacity bavdi Bandar -2, Juna Bandar -2, Kutdi Bandar -1
- ✓ water pipe line installation at Wandi village 2000meter.
- ✓ Basic amenities at Rampar Village Paver block 6000 LTR Storage tank and Boundary wall at community place.
- ✓ Additional civil work in community hall
- ✓ Open shed Gundiyali
- ✓ Boundary wall in common place at Tragadi.



An initiative by  
**adani**  
Foundation





# Swachhagraha

Adani Foundation has launched project "Swachhagraha" Swachhata ka Satyagraha in the year 2015, to support the 'Swachh Bharat Abhiyan'. Falling in line with our Honorable Prime Minister's call for a Clean India, we launched this mass movement towards making our Nation litter free.

The programme draws inspiration from one of the largest mass movements - Satyagraha, which catalyzed action by winning over people's hearts through tremendous patience and resolve, instilling dignity and self-respect among our people. Swachhagraha aims to engage people and bring about a behavior change, where people get involved 'to create a culture of cleanliness'. Swachhagraha is inculcating behavior change education in cleanliness, sanitation, personal hygiene and civic consciousness amongst young minds.



Presently the Swachhagraha project is being implemented in 3000+ schools across 17 States. So far 3500+ teachers have been trained in behavior change education in schools, ranging from elite private schools to government municipal schools. The programme has directly involved over 57000+ students who have further reached out to their peers, parents and community through a variety of planned action projects and campaigns.



Mundra site- Adani Foundation launched Swachhagraha in 4 Blocks of Kutch District (Mundra, Anjar, Gandhidham, Bhuj). The Swachhagraha programme was launched in Bhuj 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), 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) on 1st October 2018.





# SWACHHAGRAHA - ACTIVITIES





# 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.



# 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





# Adani Skill Development Centre



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.

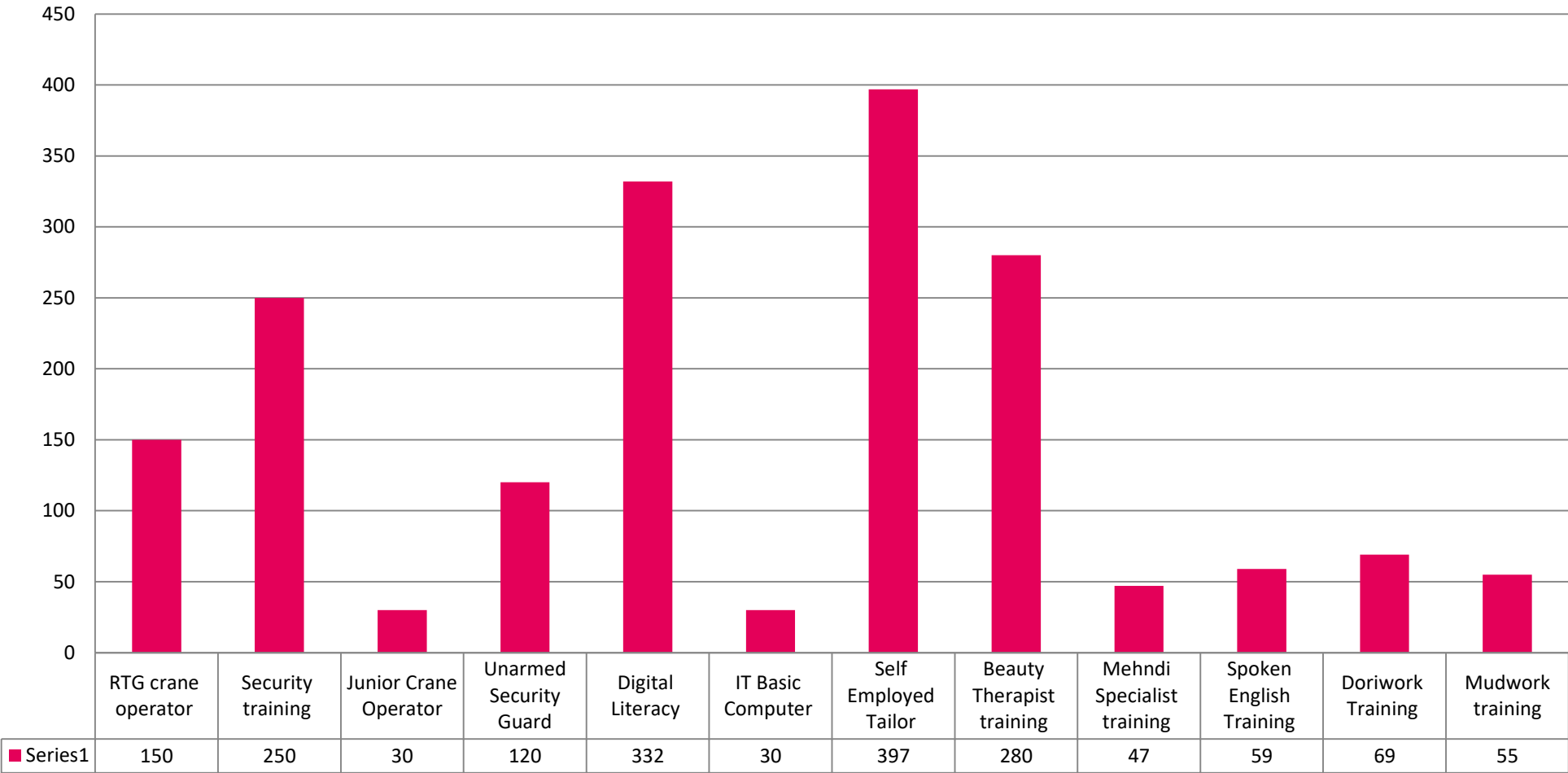
**During this year Total 1819 people is given various trainings to enhance socio economic development.**

Out of which 1294 People are getting employment or Self Employment and average income up to Rs. 5200 per month. Digital literacy training is very helpful in coordinating with today's Digital world....

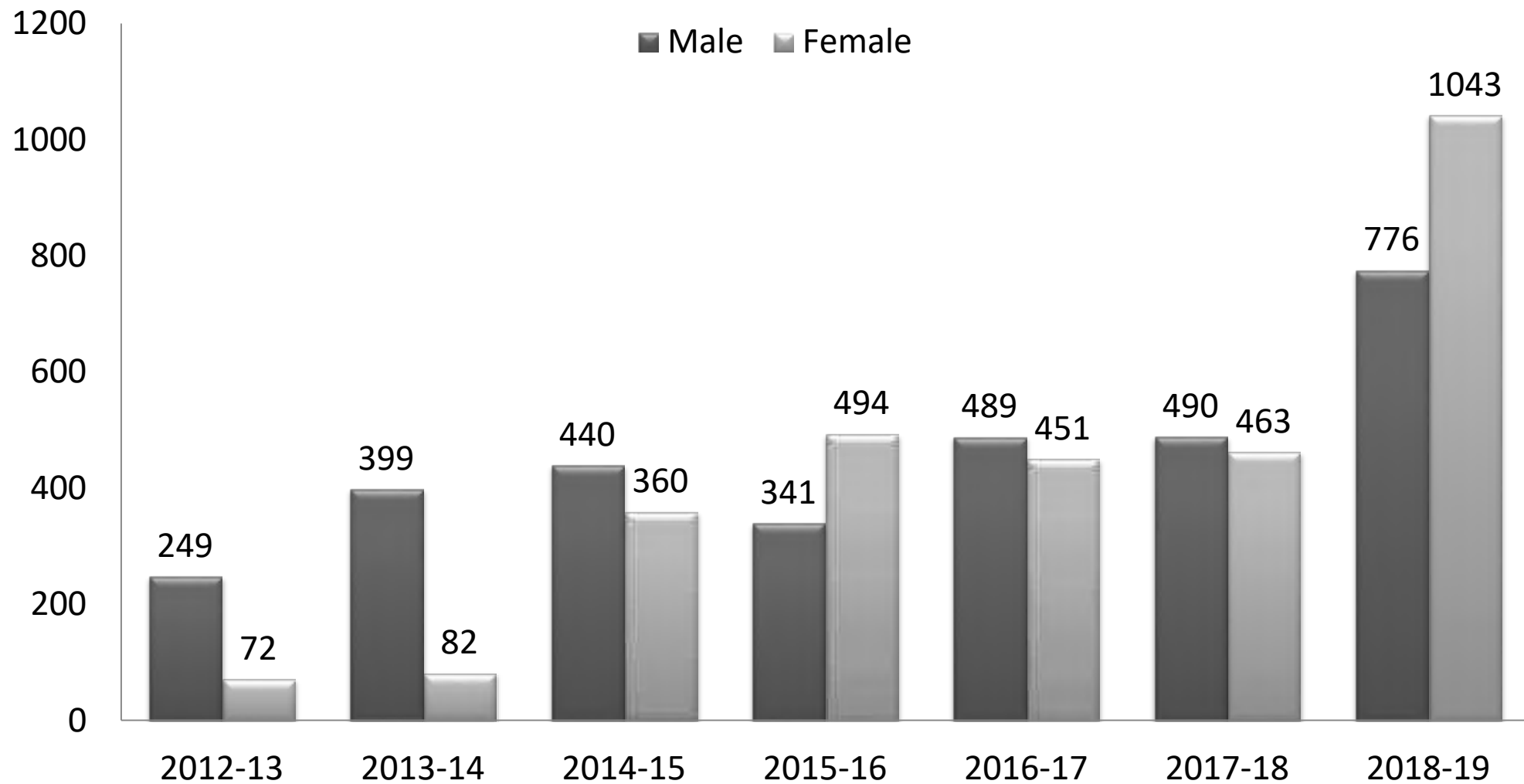
In the year 2018-19, ASDC trained 1819 candidates at Mundra.

THE YEAR IN REVIEW : KEY HIGHLIGHTS

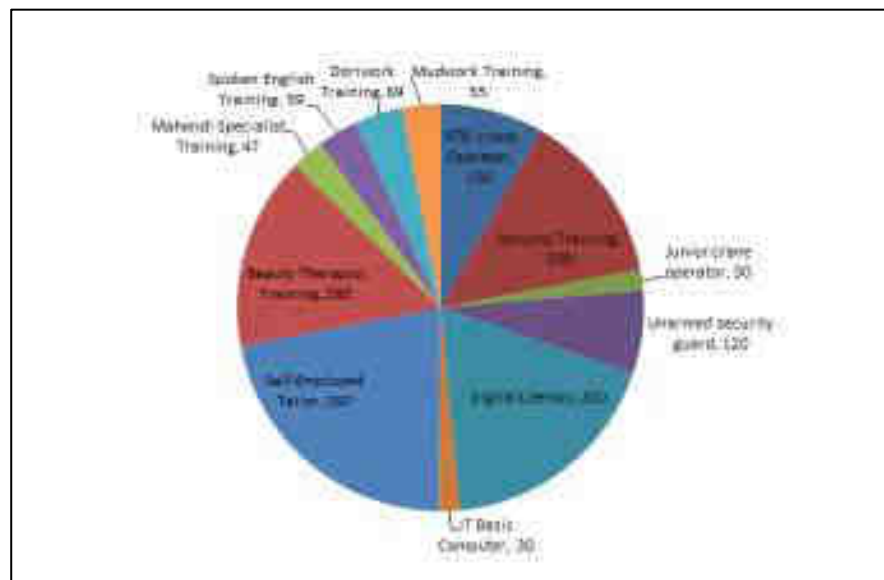
Training chart 2018-19



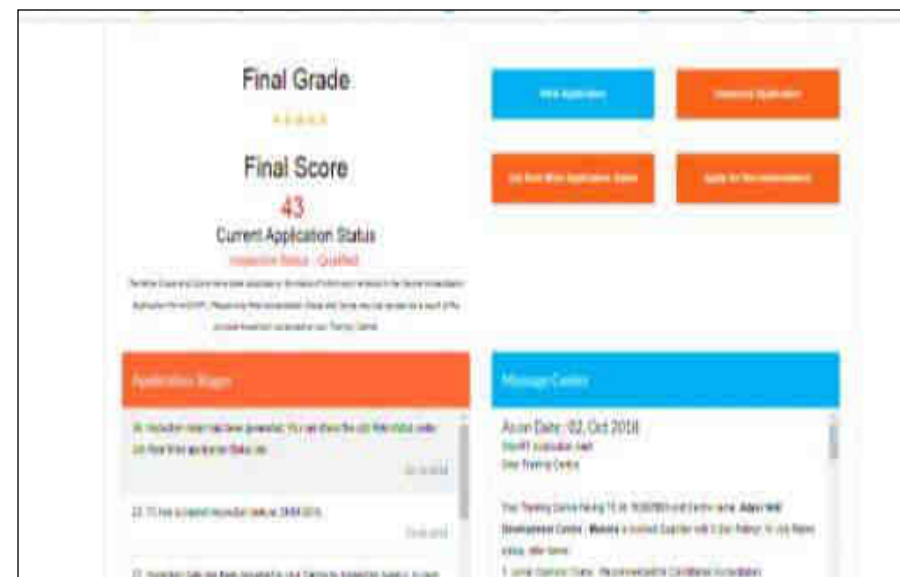
## OUR PROGRESS MUNDRA



## DETAILS OF VARIOUS TRAINING UNDERTAKEN



Adani skill development centre Mundra Placement figures of ASDC. Total 1294 people are getting employment after training with approximate ROI Rs. 5200 per month.



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



## 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 .



## LAUNCHED "JUNIOR CRANE OPERATOR" COURSE UNDER PMKVY



On 6<sup>th</sup> December 2018 launching program was organized at Adani house for (1) Junior Operator crane (2) Unarmed Security guard

Total 30 beneficiaries identified and registered for Junior operator crane PMKVY portal. Mr. Vasant Gadhavi Sir (Director of Adani Foundation), Mr. Avinash Rai (CEO, APSEZ), Mr. Rakshit sir (ED APSEZ), and all HOD remained present and all motivated by their speech.

## STARTED UNARMED SECURITY GUARD COURSE UNDER PMKVY



Adani Skill Development Centre, Mundra received 120 candidates target of Unarmed Security guard training of PMKVY (NSDC). We have started 2 batch with 60 candidates of Unarmed security guard training at Adani Security training school at Mundra.

# Adani Skill Development Centre - Bhuj



One more feather added in Cap of Project Saksham – Adani Skill Development Center started in Bhuj.

PMKVY certification received with Four Star Rating in October 2018.

We have started Adani Skill Development Center at Campus of Gujrat Adani Institute of Medical Sciences with a main stream course of “General Duty Assistant”. After that we started digital literacy, beauty and wellness plus stitching courses.

ASDC Bhuj got overwhelming response of district administration for organizing special batch for widows and coordinating for their placements.

We got prodigious rejoinder during training of visually impaired and hearing impaired students at Navchetan Andhjan Mandal Madhapar.

By the unique activities and coordination, ASDC Bhuj received huge amount of appreciation from media.

Total 663 Beneficiaries have taken training out of which 432 people are doing job or self employment.



In the year 2018-19, ASDC trained 663 candidates at Bhuj.

Training Details	Qtr.-1	Qtr.-2	Qtr.-3	Qtr.-4	Total
Digital Literacy	0	27	58	175	260
General Duty Assistant	59	55	83	00	197
Spoken English	0	14	0	0	14
Beauty & Wellness	0	35	18	79	132
Banking Related Training	0	0	0	60	60
<b>Total</b>	<b>59</b>	<b>131</b>	<b>159</b>	<b>295</b>	<b>663</b>





# Event Celebration



# Teacher's Day Celebration : Guru Vandana



- Teacher's day Celebration - Guruvandana' Program was organized under esteemed presence of Shri Prabhav Joshi (District Development Officer) and teachers of 106 government primary schools with great enthusiasm.
- Objective of the programme was "healthy mind resides in a healthy body which is why a health checkup is scheduled for all the teachers which included BMI, BP, RBS, HB and vision test. Health check was 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. Riddhi 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 session taken by Mr. Jatin Upadhyay.



# Utthan : Review and setting tone

To review and propel the Project Utthan was scheduled on 18<sup>th</sup> February 2019 at Kamandpur Primary School and Dhrub. Distinguished Guest of the Programme was Mr. Prabhav Joshi – District Development Officer, Kutch , Mr. Rakshit Shah - ED, Mundra , Shri Vasant Gadhavi, Director - Adani Foundation. SMC members of the School and villagers were gathered in Kamandpur Primary School.

DDO appreciated this unique initiative taken by Adani Foundation to enhance the level of Primary education of Kutch district. He is happy for the concept of Mothers' meet which is the keen area of this project for sending students on regular basis. He requested to all the mothers to send their ward in school daily. He especially recognized the installation of Smart Classroom in all the 17 School.

SMC members were highly appreciated the material support and introduction of English language in classes- 1 to 4 by the teachers which were appointed by Adani foundation. Principal briefed the project and shared his satisfaction towards this project on behalf of 17 School Principal.

Villagers are accepted Project Utthan with open handed and broad minded. Around 130 people were witnessed of this program.



# Uthhan : Anganwadi Upgradation

Under Project Utthan and part of early intervention Adani Foundation has upgraded Anganwadi infrastructure. To inauguration of the upgraded Anganwadi was scheduled on 18<sup>th</sup> February 2019 at Dhrub. Distinguished Guest of the Programme was Mr. Prabhav Joshi – District Development Officer, Kutch , Mr. Rakshit Shah - ED, Mundra , Shri Vasant Gadhavi, Director - Adani Foundation. ICDS members remained present to motivate the Anganwadi supervisors.





# Coastal Week Celebration with Indian Coast Guard



During celebration of coastal week - Safety and Security awareness program for fishermen while fishing as well as health check up camp and fishermen shed inauguration program was organized at Juna Badar with collaboration of Indian coast guard department. In this occasion Mamlatdar of Mundra, Commandant of coast guard and Mr. Ashvin Zinzuvadiya (Media : Kutchh Mitra) were present. Mainly they emphasized on national security as well as Personnel security in their speech.

Health camp was organized with support of Adani Hospital Mundra. Total 107 patients were benefitted by health check up camp and prize distributed to winner of Ramaotsav program.

# Fisher Folk Amenities..

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.



# 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





# Talent Hunt: International Disability Day

Adani Foundation is working intensively for differently abled in Mundra Taluka since 4 years in coordination with District Social Welfare Department. Till date we could able to support more than 560 Divyang in Mundra Taluka .

In celebration of International disability day, Adani Foundation organized Music and Painting competition at Taluka Level and Zone Level.

For Winner s of Zone level – District level competition was organized on 3<sup>rd</sup> December 2018.

With the blessings of almighty, divine Start of the program with blessings speech of District social Defense officer and Laljibhai Prajapati of Navchetan Andhjan Mandal.

Total 675 people from different institutes remained present in inaugural session. All Divyang participants remained present with full preparation.

Some glimpse of the programme Second session of Talent Hunt - International Disability Day was prize distribution with musical celebration. District Collector Ms. Remya Mohan IAS, Mr. Prabhav Joshi IAS, Rakesh Vyas DEO, Mr Arvind District Social welfare officer remained present. Mr. Rakshit bhai Shah ED, APSEZ was with us throughout the program. All four categories got 3 prizes. District social defense officer had given certificate of appreciation to Adani Foundation Mundra..





# Talent Hunt : International Disability Day Glimpse



# Divine feeling towards Mata no Madh!!

Mata no Madh is a village in Lakhpatt 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.





# Employee Volunteering Programme

In a move first of its kind employees of the Adani Group have adopted all the students of the Vallabh Vidyalaya school in Mundra in their Employee Volunteering Programme (EVP). All the 704 children in the school are from families of migrant labourers working in various industries in and around Mundra. Children from migrant labourer families in addition to resource constraints at home also bear the disadvantage of unfamiliarity with local language and culture inhibiting participation in school.

Vallabh Vidyalaya by passes the language barrier as the medium of instruction is in Hindi and mostly the kids are from Hindi speaking families. "Thanks to Adani EVP financial resource constraint will be substantially relieved", Dharmendra Bhai who created the school from one shed institution gratefully acknowledged.

Energised by the inspiring leadership of Adani Foundation's Chairperson Dr. Priti Adani the Group employees handed over a collective cheque in an impressive function at the school premises. One student of Std. VII joyfully expressed, "Your benevolence will have indelible imprints and impact on our lives. Will remember you ever."



# Employee Volunteering Programme

Adani Group is deeply involved in all round social and economic development of the areas in and around Mundra. Adani EVP is context driven and employees have taken part in teaching, improving Aanganwadis, giving impetus to national Swachhata Mission and blood donation. The journey continues





# Employee Volunteering Programme

Dignity of workforce day was organized jointly of APSEZ (Adani ports n SEZ Limited), AWL(Adani Wilmar Limited), MSPVL (Mundra Solar Pvt Limited) Adani Hospital and Adani foundation at labour colony with medical camp and handing over of sanitation. more than 32 employees have volunteered in this event.

## 1. Total OPD by Medical camp at Labour colony-315

## 2. Blanket Distribution to 800 workers

In this event Mr. Sharad Sharna Head-AWL with staff, Bhaktbandhu DGM HR and Admin staff (APSEZ), Mr. Ganesh Sharma Head HR, President - Kutch Labour Union and Adani foundation team remained.



# Inauguration of Skill Development training program for Schedule cast beneficiaries

Another milestone reached on 28th Dec 2018, ASDC launched its program for schedule caste in the state of Gujarat. This program will train candidates in various vocational training educational course like Self employed tailor and Beauty & Wellness. Total 60 women/Girls participated in this training. This course is sponsored by Department of Social justice and Empowerment . It was inaugurated in the esteemed presence of Mr. V. S Gadhavi sir (Executive Director ASDC), Mr. Rakshitbhai Shah (ED of APSEZ, Mundra), Mr. K D Kapdiya (Director of Department of social justice and Empowerment), Mr. B P Soyantar (Dep. Director of Social justice and Empowerment, Gandhinagar), Mr. Dhangaru (Dep. Director of Social justice and Empowerment, Bhuj ), Mr. Jatin Trivedi (HOD of ASDC), Mrs. Pankti Shah (Unit CSR Head of AF Mundra), Mr. Javaid Akhtar (HR Manager of ASDC).



## 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. Bhadarka' (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.

# NAMDA ON REVIVAL PATH

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 Kutchh 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 Kutchh. 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 Umar bhai, perhaps the sole survivor of the craft in Kutchh, 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 CONTENT IN REVIVING THE DYING NAMDA ART FORM AND SUPPORTING MANSURI IN STARTING HIS OWN BUSINESS.**

**HIS JOURNEY IS OFF TO A FLYING START AND WE WISH HIM ALL THE BEST.**





# Beneficiaries Speaks



# Utthan : Enhancing Quality of Education !!

Navinal is a small village of Mundra Taluka. The village boasts of the works done by the goodwill of the Mahajans. The village is inhabited by approximately 1000 people. Rameshbhai Sathwara, his wife Champaben along with their three sons are one of the families residing over here. Rameshbhai is a greengrocer and lives a contented life with his family. The eldest son 14 year old Hareesh and the middle one 10 year old Lalji study with devotion and bring good result with god's grace and the blessings of the elders of the family. Their final result would bring a new ray of hope for the parents every year.

But the youngest son, Sanjay studying in class 3 could not read or write. Even after a lot of efforts nothing could not make him read and write. He himself did not even feel like reading or writing. It was meaningless to drag him into learning without his own willingness. The teachers also accepted Sanjay as a dull boy and didn't pay much attention.

But one August morning became august for this boy as it brought a bright ray of hope for him.

A new teacher who had come to teach students like Sanjay talked to Sanjay in his Kutchi mother tongue and this attitude of this teacher made the little boy go wonderstruck. The new teacher made them sing a lot of poems, showed a lot of colourful books and told them a lot of stories. Her attitude interested Sanjay and he willingly came ahead. He sat in the first row and told the teacher about a lot of things including the beehive outside his home, his parents and elder brothers. What appealed Sanjay the most was the constant attention paid by the new teacher to him. The next day led Sanjay to the special classroom made for the students like him.

Thus, every morning became a new, exciting morning for him.

And today, the innovative rangoli making in shape of alphabets using the fallen tree leaves interested him so much that he got interested in writing letters. This interest led him to write alphabets and later words. Moreover, he got interested in co-curricular activities like reciting poems and colouring the pictures.

The factor that attracted him the most was the loving teacher and this teacher is Hansbai Gadhvi. A resident of Mundra itself Hansbai, studied at Adani Public School. She provides her services to Adani Foundation's Utthan programme.

The Utthan project is the result of the agreement under which Shri Bhupendra bhai Chudasama, the Minister of Education of Gujarat assigned the responsibility of improving the quality of Education to the Adani Foundation. And the responsibility has religiously been accepted by Shri V.S.Gadhvi Sir for the 17 government primary school. Shri Gadhvi Sir has taken it as a mission for the foundation to lead the below average students to the upper level. The teachers having command over Hindi, English and Kutchi have been providing their services in these schools.

The Utthan Project initiated in August 2018 has been heartily welcomed and appreciated by the students, parents and teachers of this area. Under this project, the children who are weak at reading, writing and basic calculation are taught in such innovative ways that their foundation becomes strong and they can come into mainstream level of their class.

The best characteristic of this project is introducing English language from the class 1. Talking about the co-curricular activities, these schools have been facilitated by libraries, smart class rooms and sports equipment.

The efforts are made with a hope that these children get the benefit of this teaching mission and move towards a happy, bright and prosperous future.



# Utthan : Enhancing Quality of Education !!

"Her eyes today had a shine so different, so divine, probably astral... was the shine real or an illusion? Or it was a simple result reflecting the efforts put in?"

These are the words of Siddhi Shah who is one of the teachers working as Utthan Sahayak in the Utthan project. She works in the Zarpara village, a village where the chief occupation is agriculture and this works as the chief reason behind the irregularity of children in attending school.

The area in and around Zarpara is quite vast and looking at this only the Government has approved 6 Government Primary Schools. But the scenario on the education side is still dismal. There is a long way to go to achieve the desired results. The teachers like Siddhi Shah who work as Utthan Sahayak have their role here. They play a key role in leading the children to school and bringing their academic level up.

Let's talk about what Siddhi Shah has to say about one such girl Pragna who studies in the Khoyadi Government Primary School.

Pragna's father Haribhai is in agriculture field and rearing cattle. This work cannot be carried ahead without the support given by the wife and thus the mother Malsriben too is busy helping the husband in his daily work along with shouldering the responsibilities of performing the household chores of a joint family and bringing up of her own three children. Hence, she finds it difficult to monitor the schooling of her children.

Pragna herself did not have much interest in studies and being the only girl child of the family, Pragna didn't take going to school seriously.

Siddhiben Shah would check the attendance registers daily and would go to meet the parents of those children who do not come to school regularly.

Pragna's irregular attendance was noticed by Siddhiben Shah and she decided to visit her home.

Once she visited her mother Malsriben and persuaded to send Pragna at school. This worked and Pragna started coming regularly. To her surprise, Siddhiben found that Pragna who was not at all interested in reading and writing could do Maths sums excellently well. Siddhiben used her interest in Maths and led her to reading and writing. Under Siddhiben's guidance, Pragna started with letters, words and with the passage of time she acquired fluency in reading flawlessly. It was like a test for the teacher and Pragna's reading fluently and with interest was the fruit the teacher's hard work bore.

And today when in the Saturday morning assembly, Siddhiben saw Pragna reading the newspaper fluently, she realized that it was her hard work that had borne fruit.

Siddhiben Shah is basically a computer engineer but her love for social work, especially in schools brought her to work in Utthan. The students studying in Adani Foundation and in the schools under the Utthan Project salute her dedication.





# Swavlamban : Pathways to become Self Reliant !!

Mina Ben is resident of Baroi village. She is widow and living with his two children who are studying in school. Adani foundation is coordinating with Jilla samaj Surakha department for availing various benefits of Government of Gujarat to widow women, differently abled and senior citizens of Mundra, Mandvi and Anjar Taluka. We did all procedure for Mina Ben for regular pension scheme.

Mina Ben was ready n passionate to start Gruh Udyog with loan support with 40 percent subsidy by Vajpayee Bankable scheme "With our efforts she got loan and now she will start Gruh Udyog of " Aggarbatti " with pre defined marketing linkages with Ashapura temple trust.





# Swavlamban : Pathways to become Self Reliant !!

Adam Bhai Bayad is living at Moti Khakhar Village He is differently abled and having wife and two children in his family. He is having one skill of mobile and computer repairing. As per his request we allotted him one cabin for income generation. Now he is started to sale Mobile, Mobile accessories. Additionally he started repairing mobile and computer. By hard work he started earning considerable amount. Adam Bhai says "due to this support my children can study well and my quality of life is enhanced



Parvina ben is Divyang but strong lady. She is educated and use to work as a teacher primary school. She was using sticks to reach school. Adani Foundation had given support of tricycle for her comfortable transport.

She says "Adani Foundation is working as a great facilitator for needy people. This is true social work which has created very good imprint in heart of village people. God bless !

# Swavlamban : Pathways to become Self Reliant !!

As the wheels of her sewing machine keep moving, so as the dreams of a better life and empowerment enthuse Bhanuben overcome the physical deformities which came in the form an injury in the spinal cord during childhood. Both her legs were malfunctioned forcing dependence on calipers for movements.

Bhanuben Gangji Patariya of Bhujpur village lost her father when she was just 15 years old, and had very little understanding of the materialistic world and struggle of life. Poverty in the family compelled Bhanuben to drop school and do small odd household jobs of fellow villagers and sometimes accompany her mother as daily labour.

The sudden transition in life, from most adorable darling of her father to an unnoticed and uncared human being in the society, often disturbed the innocent mind of Bhanuben.

Few months back, Bhanuben had enrolled at Adani Skill Development Centre for stitching training, which she could successfully complete within the deadline due to a strong will power and aspiration to win over all odds in life. During her training period only she learnt about AF's Project Swavlamban and expressed the desire to be part of it.

Followed by proper counselling and guidance for self-sustainability, AF donated her one wheel chair and a sewing machine which helped Bhanuben change her life and build the self-confidence of stitching a bright future for her family. Now she earns an average of Rs. 2500 a month which takes care of the basic livelihood needs of her family.

Wearing a smile of satisfaction on her face and the pride of being self-sufficient, Bhanuben expresses her heart-felt gratitude to AF for standing by her during this critical juncture of life. She has become a ambassador to spread the message of all good works by AF in her locality. She is yet, another success story in the saga of sustainable CSR by AF.



## Swavlamban : Pathways to become Self Reliant !!



Her name is Sanjuben. Residing in Vadala village with her Divyang husband and 9 years old son. Her husband is working at one shop and trying for two ends meet. During Divyang Mahiti card Vitran by Mamlatdar office she came to know about project Swavlamban. She meet Kalyan Gadhvi who is community mobilizer in Adani foundation. Kalyanbhai had given information n support for Divyang pension scheme.

Since two years couple is getting pension which amount can be used for further study of their son. Additionally, Adani foundation supported her for tricycle in coordination with district social welfare department. Sanjuben is daily using tricycle to give tiffin to her husband. Small linkage can bring life transformation !!!

## Spruha : Motivating fisher folk for bright future !!



Fakir Mamad Hasan Vagher

24 year old from poor fisherman family was selected by AF To provide cricket coaching last year. he has completed successful training at Rajkot YB sport academy with excellent performance even in Kutch 23 selection. The YB academy organized honor ceremony and invited AF. On this occasion dignitaries and more than 400 peoples were present and they all appreciated noble support by Adani Foundation.

Fakir Mamad saying that he was playing on behalf of other team and earn RS 500 to 600 but after cricket coaching he get status and honor in Kutch cricket even in society and earn Rs 1500 to 2500 for each match.



## Spruha : Motivating fisher folk for bright future !!

Mamad Sakil Osman Ghani Adani Vidya Mandir – Bhadreshwar '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: Kutchh In modern times along with its importance, education has also made changes in our lifestyle.

Adani Vidya Mandir, Bhadreshwar, 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, Bhadreshwar. 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.





# Adani Vadil Swasthaya Yojana: Holding Hands !!

Every human being has specific periods of the life wherein the childhood is for fun and the adulthood is spent for the family; remains old age to take care of health

Adani Foundation is holded hands of the senior citizens of Mundra

Manubha and his wife stay alone. Their son and daughters stay separately. They earn their living by grazing cattle. Manubha is having **respiratory disorder**. The source of income is very meager and that to dependent on rain. He had to borrow money from family friends or at times take on interest for taking basic treatment. His wife Shantaba also has blood sugar and hence she also requires medical assistance at times. The couple took **Adani Foundations' Senior Citizen Health Card** in 2015 by which they are able to save good amount, which was their medical expense every month.

"Adani Foundations' Senior Citizen Health Card is like a cure to our emotional, physical and psychological problem; in the times when we are completely lonely and handicap at age."....Says both of them while weeping.



# Adani Vadil Swasthaya Yojana: Holding Hands !!

Adani Foundation at Bhuj is aware of its social responsibilities to the surrounding community. Madhapar is a village approximately 28 km away from Bhuj wherein resides Aseembhai who was financially, health-wise and socially unstable until he availed help from AF at G K General Hospital Bhuj. Aseembhai settled in Madhapar 30 years ago. before 8 years, he lost his wife to heart attack.

His parents passed away when he was 3 years of age and the only surviving relative he could call his own was his brother who was also mentally-challenged. His problems did not end there as e suffered from high blood pressure and stress induced thyroid which required he took medication as long as he lived.

Slowly his body stopped reacting to the medicines and these did not work. One He got convulsions as a side effect of over dose of medicine. His neighbors took him to Adani G K G H Hospital. Adani Foundation staff took very good care of Aseembhai. For one month he admitted to hospital and daily staff members ask about his health.

When he got discharged he said

"Adani is Like my Second Son.. I get the services even without asking for it"



# Saksham Superhero's : Skill Development



My father is a working as a mechanic in ST workshop and his income was not sufficient for live life better so my mother also was working in different fields. I also was trying to find job for support to my family financially. One of my friends suggested me to visit Adani Skill Development Centre – Bhuj and join General Duty Assistant. When I visited center I got all the GDA related information from the staff, I took admission. During this course I learnt lots of Medical related things from the faculty I also was taught about Personality Development, Computer basics, Basic English, Interview Skills. During my practical for 1(one) month in GAIMS, I got chance to work in 4(four) wards. During my practical I learnt many things. After completing GDA course ASDC SAKSHAM is arrange interview At Adani GAIMS Hospital Bhuj. I attended interview and I was selected for physiotherapy section. I was offered monthly salary Rs.10000/- and join the job. After joining this job, I am glad that now I am a working woman and more then that I can help my family financially. With this job my life has become better than before. I would like to thanks Adani Skill Development Centre to give me this Opportunity and for making me SAKSHAM.



22 years old Dhanabai has completed Self Employed tailor course from ASDC in the month of June 2018. Now she start her own tailoring business at home and doing stitch ladies clothes. At present she is earning Rs.6000/- Monthly.

# Saksham Superhero's : Skill Development



Bhand Navin Devjibhai is very fond of financial autonomy and self-sufficiency, a principle of life which he has got by virtue of his skill development training at Adani Skill Development Centre (ASDC), Mundra. A Commerce graduate from Mundra village, in the year 2017 Navin had enrolled himself at ASDC for the IT-Basic Computer training. He was unemployed and lacked the minimum confidence of facing any job interview as per his qualification.

As part of the well-designed training curriculum at ASDC, the 21-year old youth learnt skills of public speaking, professional manners, facing interviews etc. along with core subject of IT basic computer. The training helped Navin immensely and fetched him a company job with lucrative Rs. 10,000/- per month salary. Happy with his financial autonomy, he is now in a comfortable position to support his parents and three brothers.

My name is Ashok Maheswari from shedata village, Mundra. My father is no more in this world so I was trying to find job for support to my family financially. One of my friends suggested me to visit Adani Skill Development Centre – Mundra and I have joined



Checker cum RTG crane operator training for 3 months. After successfully my training I sent my resume in various port. One day I received call from aani port at katupalli in Chennai and I attended interview and I was selected for RTG crane Operator. And today my salary 20,000/- per month.

So, I can help my family financially. With this job my life has become better than before. I would like to thanks Adani Skill Development Centre to give me this Opportunity and for making me SAKSHAM.



# Saksham Superhero's : Skill Development

Manisha Patel, from Mundra, has completed Std. 12. Her parents are laborers, earning minimum wages. Manisha had always been a bright student in school, wanting to learn new things. Feeling restricted in life, she dreamt of doing something different. She wanted to have a successful career and be recognized by society. Hence, when she was advised by a close friend to join ASDC's Beauty & Wellness course, which is an NSDC certified course, she grabbed the opportunity. She came to the course with a fresh mind and ready to absorb all the knowledge. She actively participated in all activities. She was full of curiosity and questions, and this attitude enhanced her skills. She was extremely happy when the trainer appreciated her enthusiasm upon completion of the training.

She was delighted to open her beauty parlor. She had also undergone extra training in specific soft skills and business manners in order to handle customers. With these skills, she manages customers like a pro and runs her salon smoothly. Her family members, including her in-laws, were initially hesitant to let her join the course but soon relented upon seeing her enthusiasm and zeal for learning. They are quite proud of what she has achieved in such a short time.

Manisha and Shree Beauty Parlor are synonymous with high-standard beauty and wellness services in the Mundra locality. Her quality services and reasonable prices have increased her popularity and helped in attracting more customers. Today, she earns Rs. 12,000-15,000 per month. Her trainer, Ms. Rekha says, "She and many other candidates who completed their training at ASDC are ambassadors of Saksham. They strive to learn and grow by beating all odds. I am proud to be given this opportunity to groom and create skilled beauticians who can handle the ever-increasing standards of beauty treatments in a city like Mundra. I wish them the very best!"



# Saksham Superhero's : Skill Development

Lilbai koli- A youngest widow of the general duty assistant (GDA ) batch from Adani skill development center (ASDC) Bhuj is an epitome of courage and confidence. She is 22 years old with a one and half year old baby, and lives in a Mirjapur village, Bhuj.

She is 12th pass with Arts stream and used to love drawing and painting as her hobby. Her parents work as laborers and her sister cooks at home. She got married in 2016 and lost her husband in 2018. The most tragic thing is that she didn't even know the exact reason of her husband's sudden death. Happiness is transient, she faced many problems starting with loosing her husband, becoming single parent and loosing financial support from her in-laws which resulted in returning to her parents home.

When asked about her future plan she says "Talking about remarriage is a taboo in our village and culture. I want to be strong enough to work hard and give my son a healthy and happy Life".

Presently, Lilmai is pursuing her ,On the Job Training in G.K General Hospital. A girl who has never seen hospital is now learning technicalities of patient care in emergency ward. A young novice is all set to become a successful patient care assistant with a single goal in life i.e 'To become economically stable enough to educate her child'. Lilbai expresses huge gratitude to Adani Foundation and ASDC Bhuj for giving her opportunity to study GDA course and help her get the job so that she no longer have to depend on anyone's help for herself or her child's future.





# Adani Cementation Private Limited (Lakhpur)



# Adani Cementation Private Limited (Lakhpat)

Adani Cementation Limited (ACL) proposes to setup an integrated cement project as Lakhpat Cement Works which includes Limestone Mine in 251.9 ha area, Cement Plant of rated production capacity of 10MMTPA Clinker and 3MMTPA of OPC/ PPC/ PSC/ COMPOSITE CEMENT in three phases, and a berthing jetty of 15MMTPA traffic capacity in phase wise manner in Taluka Lakhpat of District Kutch (Gujarat).

Project Public hearing will be in month of May 2019. For Smooth Execution of the Project we have started Participatory Rural Appraisal and Village Development Committee formation at three nearest villages (Koriyani, Kapurashi and Mundhvay) of our upcoming cement plant.





# Adani Cementation Private Limited (Lakhpat)

Kutchh is the biggest district in India and Lakhpat is far away from Bhuj which is main city of Kutchh. Health facilities are very poor as District hospital is around 150 Kms Away. Main livelihood is animal husbandry and daily wedge labour. Except GMDC , no big industrial set up is in Taluka.

Critical Issues are as under

1. Poor Health Facilities
2. Quality of Primary Education
3. Infrastructure of School
4. Livelihood options
5. Fodder and water Scarcity
6. Malnourishment



Adani Foundation will make five years plan to mitigate the issues with priorities suggested by Village Development Committees. Detailed PRA including Demographic survey is taken up and submitted.



# Adani Green Energy (MP)Limited (Nakhtrana)

# Adani Green Energy (MP) Limited (Nakhtrana)

Adani Green Energy(MP) Limited (AGEMPL) proposes to setup an integrated wind energy project as Green Energy Works which includes Limestone 750 Mw, Through approx. 1250 windmill at Dayapar to Nakhtrana in District Kutch (Gujarat).

For Smooth Execution of the Project we have started Participatory Rural Appraisal and Village Development Committee formation at three nearest villages (Ratadiya, Muru and Ambara) of our upcoming Wind Energy Project.





# Adani Green Energy (MP)Limited (Nakhtrana)

Kutchh is the biggest district in India and Ratadiya (Nakhtrana) is 70 Km away from Bhuj which is main city of Kutchh. Health facilities are very poor as District hospital is around 70 Km Away. Main livelihood is Agriculture, animal husbandry and daily wedge labour. In Nakhatrana, No big industrial set up is in Taluka.

Critical Issues are as under

1. Poor Health Facilities
2. Quality of Primary Education
3. Infrastructure of School
4. Livelihood options
5. water Scarcity
6. Malnourishment



Adani Foundation will make five years plan to mitigate the issues with priorities suggested by Village Development Committees. Detailed PRA including Demographic survey is taken up and submitted.



# Awards and Accolades

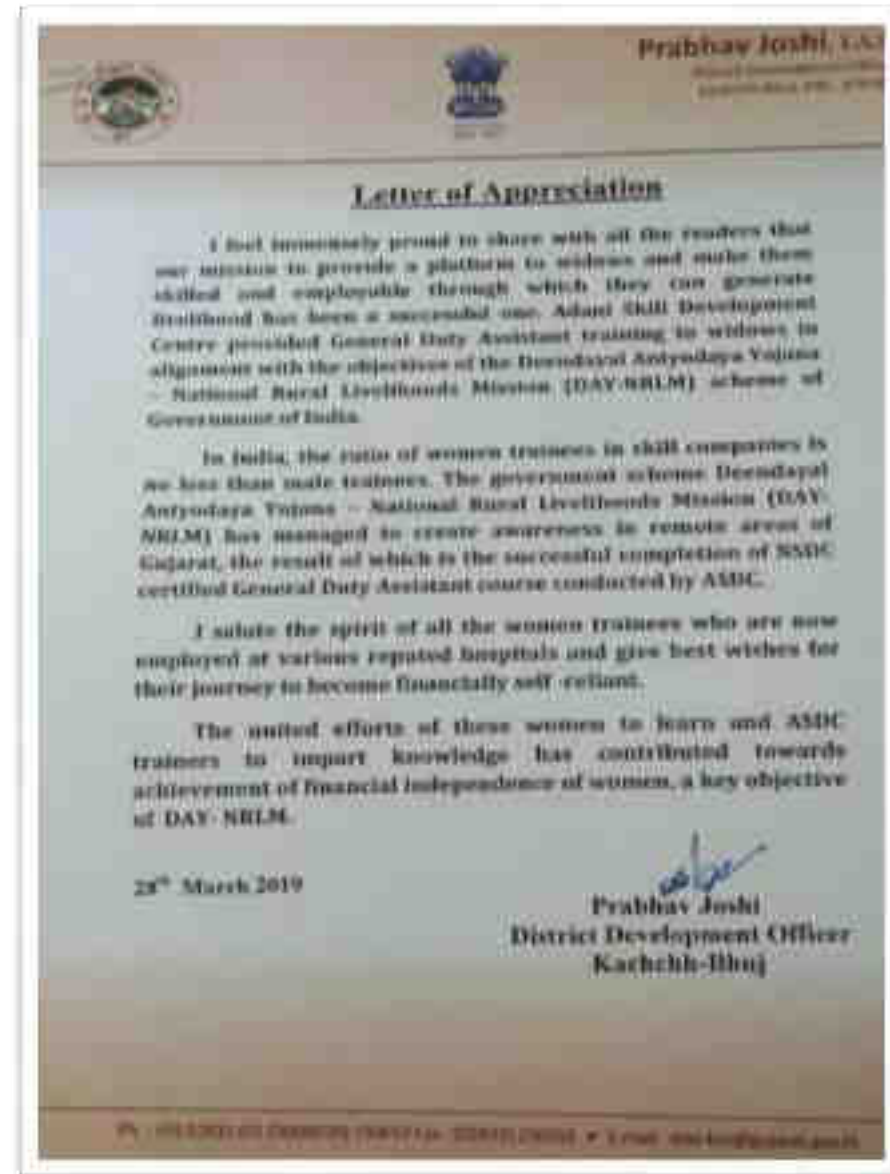
We are glad to announce our latest accolade- the Eminent Award 2018 platinum category presented at the Ek Kaam Desh Ke Naam award ceremony on 25th March , 2019 at New Delhi. The award was bestowed upon Adani Ports and SEZ Ltd, Mundra, for outstanding achievement in Corporate Social Responsibility, specifically " Adani Vadil Swasthaya Yojana - Health card to senior citizen ". The award was presented by Sh. Anil Baijal - Retired IAS & 21st Lieutenant Governor of New Delhi and was received by the Community health team of Adani Foundation, the CSR arm of the Adani Group.



Pleasure to share that  
Adani Foundation have received  
appreciation letter from  
**Mr. Vijay Rupani (Chief Minister,**  
**Government of Gujarat)** for  
commendable work for Project  
Swavlamban in District Kutchh



# Awards and Accolades



## Awards and Accolades

**જિલ્લા સમાજ સુરક્ષા અધિકારીની કચેરી**  
નંબરીક સોસાયટી, સોનિપલ ટોલ, ગુજ - ૩૫૩ - ૩૦૦૦૦૧

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**:- પ્રમાણપત્ર :-**

આથી પ્રમાણપત્ર આપવામાં આવે છે કે, અહાલી કોંગ્રેસન, મુકે કારા તાજેતરમાં બીજા ટીલેન્ડરના રોજ વિવિધ વિસ્તારોમાં વિવિધની ડેપુટીના આગેવાને કમલ વિસ્તારમાં વિવિધની અહીં પ્રતિબંધને મહાર આપવા અને ટેલેન્ટ અને કમર્સનું આયોજન કરવામાં આવેલું અને વિવિધની કોંગ્રેસ વિવિધ કમિટીને પ્રાદીન કરવાની તક આપી તેઓને ડેપુટી આપી નવાજવામાં આવેલ હતા. જે કમિટીની મુખ્ય પ્રમુખનીય કમિટીની હતી. આ વિસ્તાર પણ અહાલી કોંગ્રેસના કારા વિવિધની વિવિધ કમિટીની યોજનાઓ જેવી કે, વિવિધની મોંઘાના કારા, વિવિધની કમલ કમલ, ડેપુટી ગ્રાંધી નેશનલ ટીલેન્ડર વેનાન કોંગ્રેસ, વિવિધની કમલ કમલ વગેરે યોજનાઓની પ્રમાણ પત્રો કરી જરૂરના કમિટીનીને કમલ મળે તે માટે જરૂરી આયોજન આપવા અને કોઈ આયોજન આપ કરવી તેમજ આ કોઈ સંબંધિત કમિટીમાં પ્રતિબંધ કરી, મુકે કારાના કમિટીની કમિટીની આયોજનમાં આવે છે. જે વિવિધની માટે મુખ્ય જ ડેપુટીની છે અને અહાલી કોંગ્રેસના કારા આપ કમિટીની કમિટી આપ કમલ કમલ તેવી કમિટીનામાં...

આપ : ગુજ - ૩૫૩.  
તારીખ : ૧૮/૧૧/૨૦૧૮

*Signature*  
જિલ્લા સમાજ સુરક્ષા અધિકારી  
ગુજ - ૩૫૩.



॥ सा विद्या या विमुक्तये ॥

# બ્લોક રિસોર્સ સેન્ટર-મુંદરા

તા. મુંદરા જી. ડરહ.

## આમાર પત્ર

**પ્રતિ,  
મુખ્ય અધિકારીશ્રી  
અદાણી ફાઉન્ડેશન  
મુંદરા-૬૨૭.**

સકુર્ષ જણાવવાનું કે આપની સંસ્થા દ્વારા ચાલતા દિવ્યાંગ સ્વયંસંચાલ પ્રોજેક્ટ અંતર્ગત અમારા બ્લોક રિસોર્સ સેન્ટર-મુંદરા ખાતે આજવાસ અર્થે આવતા દિવ્યાંગ વિદ્યાર્થીઓ માટે સફ્ટવેય, સંગીતના સાધનો, રમત-ગમતના સાધનો તથા વહીવટીટ્રાજન્યા છે. જે કામગીરીને પિરદાવતા અમે દુર્વ સાધી અભિનંદન પાઠવીએ છીએ.આપના આ સકુર્ષોગ માટે દિવ્યાંગ વિદ્યાર્થીઓના વાલીઓ તેમજ બી.આર.સી. સ્ટાફના કાર્ગિક અમારા વ્યકત કો છે.

અભિનંદન આપના સકુર્ષી અમારા દિવ્યાંગ વાલકોને આવી જ રીતે અવિરત સકુર્ષોગ ભજલો રહે તેવી આશા સાથે.....



તારીખ : ૨૭-૨-૨૦૨૮  
સ્થાન : બ્લોક રિસોર્સ સેન્ટર  
મુંદરા-૬૨૭.



કો. મોકનનાયક કે. પરમાર  
બી.આર.સી.કો.-ઓર્ડિનેટર  
મુંદરા-૬૨૭.









No	Core Area	Beneficiaries	Remarks
1	Education	5602	Uthhan, Labour School, School Enrollment
2	Adani Vidya Mandir	387	School Students
3	UDAAN	33932	116 Institute Visited
4	Adani Skill Dev. Center	2482	Mundra and Bhuj
5	Community health Mundra	58531	MHCU, Medical Camps, Senior Citizen
6	Community health Bhuj	36417	Health Camps, Mahiti Setu, patient care
7	SLD Fisherman	3280	Water, Education, Mangroves etc.
8	SLD Agriculture	1232	Drip Irrigation, Bio gas, tissue
9	SLD Women Empowerment	132	Saheli mahila gruh udyog – 12 SHG
10	Rural Infra. Development	81098	Pond deepening, AKBTPL, Labours work
11	Swachhagraha	3711	Mundra, Bhuj, Anjar and Gandhidham
12	Suposhan Mundra	17025	Adolescent, Children and RPA
13	Suposhan Bitta	6450	Adolescent, Children and RPA
14	Lakhpatri	512	Cattle owner for fodder

**Total Beneficiaries : 250791**



# Financial Overview

<b>Adani Foundation -Mundra</b>				
Executive Summary-Budget Utilization up to March-19				
(Rs. In Lacs)				
Sr. No.	Budget Line Item	Approved Budget 2018-19	Budget Utilization 2018-19	% of utilization
A	Admin Expense	67.55	55.44	82.07%
B.	Education	67.85	59.11	87.12%
C.	Community Health	243.21	203.88	83.83%
D.	Sustainable Livelihood Development	505.87	624.68	123.49%
E	Rural Infrastructure Development	326.34	231.81	71.03%
<b>TOTAL AF CSR Budget :</b>		<b>1210.82</b>	<b>1174.93</b>	<b>97.04%</b>
F.	Adani Vidya Mandir - Bhadreswar	143.15	133.88	93.53%
<b>GRAND TOTAL_MUNDRA CSR WORKS 2018-19</b>		<b>1353.97</b>	<b>1308.81</b>	<b>96.66%</b>
G.	Project Udaan_Mundra	342.82	315.63	92.07%
<b>GRAND TOTAL_MUNDRA CSR+ PROJECT UDAAN</b>		<b>1696.79</b>	<b>1624.44</b>	<b>95.74%</b>

The Utilization will change slightly after receiving data upto first week of April 2019 due to few GRN is pending



