

APSEZL/EnvCell/2017-18/008

Date: 23.05.2017

To,
Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (WZ),
E-5, Kendriya Paryavaran Bhawan, Arera Colony,
Link Road No. - 3, Bhopal - 462 016.
E-mail: rowz.bpl-mef@nic.in

Sub : Half yearly Compliance report for Environment 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 20th 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 / CRZ Clearance for the period of October - 2016 to March - 2017 is enclosed here for your records. The stated information is also provided in form of a CD (soft copy).

Thank you,
Yours Faithfully,
For, M/s Adani Ports and Special Economic Zone Limited


Ennarasu Karunesan
Chief Executive Officer
Mundra & Tuna Port

Enclosure: 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

Received
21-5-17
RECEIVED
OFFICE
कायलिय वन मंत्रालय (केंद्र)
Ministry of Environment & Forests (C)
संयोजक, क्षेत्रीय (पश्चिम क्षेत्र)
Regional Officer (Western Region)
गण्डिधम (गुजरात) - 370201

Environmental Clearance Compliance Report



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

MPSEZ Utilities Pvt. Ltd.
(MUPL-CETP)

For the period of

October-2016 to March-2017

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : April,16 To : September,16
Status of the conditions stipulated in Environment Clearance		

Index


Sr. No.	Particulars	Page Nos.
1	Compliance Report	1
2	Annexures	
Annexure – 1	GPCB Acknowledge of Env. Audit Report Submission	22
Annexure – 2	Typical Proof of Submission of Sampling and Analysis Reports of Member Units submitted to GPCB	24
Annexure – 3	Details of Water Consumption and Wastewater received from Member Units & Quantity of Treated Water	31
Annexure – 4	Summary of Environmental Monitoring Reports	32
Annexure – 5	GPCB Sample Analysis Report	38
Annexure – 6	Green Belt Development Details	40
Annexure – 7	Typical copy of Log Book record	42
Annexure – 8	Summary of Bore Hole water analysis	43
Annexure – 9	EMC Organogram	44
Annexure – 10	Budget spent for environmental protection expenditure	45
Annexure – 11	Details of CSR Activities Annual Report FY 2016-17	46
Annexure – 12	A typical copy of Test Report received from Member Unit	63
Annexure – 13	Sludge Disposal Manifest copy	64
Annexure – 14	List of Maintenance work at CETP	65

Compliance Report of Environment Clearance

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
A. Specific Conditions		
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.	Complied. Environment Audit is carried out on six monthly bases 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 submitted to GPCB on 17.02.2017 GPCB Acknowledge copy of the same is attached as Annexure – 1.
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.	Complied. Effluent Sample of each member unit is collected on daily basis and analysed in-house at environmental laboratory. Analysis reports are submitted to GPCB every month and typical proof showing the same is attached as Annexure – 2.
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.	Complied. Presently Textile, chemical, warehouse, oil, steel CFS, electronic and food products category industries are available in SEZ area. No industry as mention condition no. 3 is permitted. 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.

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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 KL /Day to 9 KL/Day, which is sourced through Gujarat Water Infrastructure Ltd. (GWIL) pipeline from Narmada water supply. No ground water is being tapped.</p> <p>Details of water consumption, is given as Annexure – 3.</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 discharge from the CETP was 119.73 KL/ Day during the compliance period.</p> <p>Present installed capacity of CETP is 2.5 MLD only which is higher than average inflow of effluent from member industry.</p> <p>Details on quantity received from industry and treated water discharge are attached as Annexure – 3.</p>
6	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>Complied.</p> <p>The average quantity of effluent discharge from the CETP was 119.73 KL/ Day during the compliance period.</p> <p>There are only two member industries of CETP as on date for industrial effluent and effluent is conveyed though underground pipeline only.</p> <p>Presently on Avg. 100 KL/ Day effluent is treated at CETP.</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.</p>

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		


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 20th February, 2010

Sr. No.	Specific Conditions		Compliance Status as on 31-03-2017
	Parameter	CETP inlet norm of MUPL	<p>Analysis reports are submitted to GPCB every month and proof showing the same is attached as Annexure – 2.</p> <p>Sewage is also received from other member units for treatment in CETP and final disposal.</p> <p>Member units for industrial effluent as well as domestic sewage were submitted to the MoEF & CC along with half yearly compliance report Apr – 2016 to Sep – 2016. And there is no further change.</p> <p>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 information for the same was submitted to the MoEF & CC along with half yearly compliance report April– 2016 to Sep – 2016.</p> <p>A typical Test Reports provided by Member Unit is attached as Annexure – 12.</p>
	pH Suspended Solids BOD (3 Days at 27 ^o C) COD TDS Oil & Grease Phenolic Compounds Cyanides Fluorides Sulphides Ammonical Nitrogen Copper Nickel	6.5 To 8.5 800 mg/l 1000 mg/l 2000 mg/l 2100 mg/l 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	

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017			
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 reply of condition no. 6 above. Currently two units have agreement to discharge their effluent to CETP. The detail for the same is as below.			
		Unit	ETP Capacity	Treatment Methodology	Average Water Discharge
		M/s Dorfketal Speciality Catalyst Pvt Ltd	100 KLD	Primary & Secondary Treatment	60 KL
		M/s Ahlstrom Fiber Composites India Pvt. Ltd	50 KLD	Primary Treatment	15 KL
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 reply of compliance condition 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 will also be treated in the CETP.	Complied. Sewage from each industry is discharged into Septic tank/ collection tank, which is connected to the CETP Intel through pipeline and is transferred to CETP through pipeline. Generation of domestic wastewater ranging from 30 to 93 KL per month at the CETP and is treated in the CETP itself.			

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017																									
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. Present installed capacity of CETP is 2.5 MLD. Third party analysis of the treated water is being carried out once in a month by NABL and MoEF & CC accredited agency namely M/s. Pollucon Laboratories Pvt. Ltd. Summary of the same for duration from Oct'16 to Mar'17 is mentioned below.</p> <table><tr><th>Parameter</th><th>Unit</th><th>Min</th><th>Max</th><th>Perm. Limits\$</th></tr><tr><td>pH</td><td>--</td><td>6.98</td><td>8.08</td><td>6.5 – 8.5</td></tr><tr><td>SS</td><td>mg/L</td><td>20</td><td>31</td><td>100</td></tr><tr><td>COD</td><td>mg/L</td><td>76</td><td>104</td><td>250</td></tr><tr><td>BOD</td><td>mg/L</td><td>22</td><td>32</td><td>100</td></tr></table> <p>\$ Permissible Limits as per CC&A for CETP</p> <p>Please refer Annexure – 4 for detailed analysis reports. Approx. INR 15.5 Lakh is spent for all environmental monitoring activities during the Apr – Sept, 2016 period.</p> <p>GPCB Sample analysis reports are attached as Annexure – 5.</p>	Parameter	Unit	Min	Max	Perm. Limits\$	pH	--	6.98	8.08	6.5 – 8.5	SS	mg/L	20	31	100	COD	mg/L	76	104	250	BOD	mg/L	22	32	100
Parameter	Unit	Min	Max	Perm. Limits\$																							
pH	--	6.98	8.08	6.5 – 8.5																							
SS	mg/L	20	31	100																							
COD	mg/L	76	104	250																							
BOD	mg/L	22	32	100																							
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 discharged to deep sea through outfall system of MPSEZL having CRZ permission during high rainy days.	<p>Complied.</p> <p>Average 119.73 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>																									
12	Well-designed effluent distribution network with sprinklers / drip pipes shall be provided for proper utilization of treated effluent for plantation / gardening.	<p>Complied.</p> <p>Drip irrigation system is provided for watering the green belt in the vicinity.</p>																									

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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.	<p>Complied.</p> <p>Treated effluent from CETP is supplied through only one outlet for gardening purpose.</p> <p>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.</p> <p>Quality of treated effluent from CETP meets with GPCB norms. Refer specific condition No. 10 for test result summery. Please refer Annexure – 4 & 5 for further details.</p>
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.	<p>Complied.</p> <p>An agreement is made over the respective units to provide storage facility for retention.</p> <p>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.</p>
15	The MUPL shall give time slot to the contributing member units for discharge of effluent and implement a mechanism for ensuring that the member units adhere to the same.	<p>Complied.</p> <p>At present there are only two member industries of CETP and time slot has been given to each industry for discharging their effluent.</p>
16	The MUPL shall strictly observe and make sure that every member shall supply entire effluent quantity to the CETP.	<p>Complied.</p> <p>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.</p>

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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.	<p>Complied.</p> <p>Black coloured HDPE pipeline for effluent conveyance has been provided to transfer effluent from member units.</p> <p>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.</p>
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.	<p>Complied.</p> <p>Magnetic flow meters to maintain the record of quantity of raw effluent and treated effluent have been provided at inlet and outlet of CETP.</p> <p>Records of quantity received from industry and treated discharge are attached as Annexure – 3.</p>
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.	<p>Complied.</p> <p>Online pH meter is provided at CETP inlet, equalization tank and neutralization tank for continuous monitoring of pH.</p> <p>Equalisation tank having capacity of 1700 KL is capable to take care of unforeseen circumstances.</p>
20	The MUPL shall also install pH sensor with alarm device at final outlet to ensure that effluent being discharge is always neutral.	<p>Complied.</p> <p>MUPL-CETP has also installed Continuous Effluent Monitoring System as per CPCB guidelines for continuous monitoring of pH, TSS, COD, BOD & 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 & CC along with half yearly compliance report Apr – 2016 to Sep – 2016.</p>

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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.	Complied. Metering pumps for dosing of chemicals such as Alum; Polyelectrolyte; Lime and HCl are provided with stand by pumps.
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.	Complied. 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.
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 CETP or process disturbances and any untreated effluent shall never be discharged into the environment.	Complied. 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.
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.	Complied. D.G. Set having 380 KVA capacity has been provided as stand- by which is equivalent to the power requirement to run CETP.

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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 copy of logbook is attached here as Annexure – 7.</p> <p>Record of sludge generation and disposal is being maintained.</p> <p>Disposal of sludge was carried out through landfilling on 11.03.17 at registered TSDF site as SEPPL, Bhachau. The disposal quantity was 13.670 MT. Manifest for the same is attached as Annexure – 13.</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 the analysis and monitoring purpose.	<p>Complied.</p> <p>Well-equipped laboratory having all the infrastructure facility and instruments is provided in CETP.</p>
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 Annexure – 2.</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>NABL and MoEF accredited agency is engaged for sampling and analysis of influent and effluent of CETP.</p> <p>Monitoring report for the period from Oct'16 to Apr'17 is attached as Annexure – 4.</p>

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		


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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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 mitigation measures as may be suggested by such an institute shall be implemented in consultation with the Gujarat Pollution Control Board.	Complied. Environment Audit is carried out on six monthly bases 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 submitted to GPCB on 17.02.2017. GPCB Acknowledge copy of the same is attached as Annexure – 1.
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 member units are submitted to GPCB regularly and proof showing the same is attached as Annexure – 2.
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. Sampling and Analysis report is attached as Annexure – 8.
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. DG set was not operated during the compliance period of Oct'16 to Mar'17 due to uninterrupted grid power supply.

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		


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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017																									
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 reviewed in consultation with the GPCB.	<p>Complied.</p> <p>Ambient Air Quality Monitoring station is established in consultation with GPCB. Monitoring carried out on regular basis through NABL and MoEF accredited agency.</p> <table><tr><th>Parameter</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm. Limit^s</th></tr><tr><td>PM₁₀</td><td>µg/m³</td><td>98.6</td><td>41.6</td><td>100</td></tr><tr><td>PM_{2.5}</td><td>µg/m³</td><td>57.4</td><td>17.5</td><td>60</td></tr><tr><td>SO₂</td><td>µg/m³</td><td>29.0</td><td>5.5</td><td>80</td></tr><tr><td>NO₂</td><td>µg/m³</td><td>45.6</td><td>15.6</td><td>80</td></tr></table> <p>Monitoring report for the period from Oct'16 to April'17 is attached as Annexure – 4.</p>	Parameter	Unit	Max	Min	Perm. Limit ^s	PM ₁₀	µg/m ³	98.6	41.6	100	PM _{2.5}	µg/m ³	57.4	17.5	60	SO ₂	µg/m ³	29.0	5.5	80	NO ₂	µg/m ³	45.6	15.6	80
Parameter	Unit	Max	Min	Perm. Limit ^s																							
PM ₁₀	µg/m ³	98.6	41.6	100																							
PM _{2.5}	µg/m ³	57.4	17.5	60																							
SO ₂	µg/m ³	29.0	5.5	80																							
NO ₂	µg/m ³	45.6	15.6	80																							
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.</p> <p>Membership certificate for disposal of Hazardous waste (SEPPL) is submitted to the MoEF & 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 pucca bottom facility.</p>																									

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		


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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
36	CETP waste shall be disposed at authorized common TSDF facility. The company shall necessary permission of the TSDF operator for disposal of CETP sludge.	Complied. Hazardous waste generated from CETP is being disposed through authorised TSDF facility. MUPL have obtained membership with TSDF operator SEPPL, Bhachau for the same. Sludge disposed quantity was 13.67 MT during Oct'16 to Mar'17. Copy of valid membership certificate submitted to the MoEF & CC along with half yearly compliance report April – 2016 to Sep – 2016 and there is no change further.
37	Discarded containers / drums / bags/ liners shall be either reused or returned back to suppliers or sold to authorized vendors after decontamination.	Complied. Hazardous waste generated from CETP is being disposed through authorised TSDF facility.
38	Used oil shall be sold to the registered recyclers.	Used Oil and Discarded Containers 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.	Complied. Adequate Hand rail provided at CETP Tanks for fall protection.
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.	Complied. Safety measures like appropriate hand gloves, safety goggles safety shoes , reflective jacket are provided . Metering pumps for dosing of chemicals such as Alum; Polyelectrolyte; Lime and HCl are provided with stand by pumps to avoid human exposure.
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.	Point noted.

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
42	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency, regular medical check-up of the workers and keeping its record etc.	Complied. MUPL-CETP is subsidiary unit of Adani Ports and Special Economic Zone Limited. The Occupation Health Centre of APSEZL is a facility which takes care in case of emergency/ regular medical check-up of workers. There is Multispecialty Hospital in the area, which is approx. 1 Km away from the CETP area.
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 safety department of APSEZL.
44	First Aid Box shall be made readily available in adequate quantity.	Complied. First aid box is available in CETP area. OHC of APSEZL 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 .
47	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	Not Applicable No hazardous chemicals are been transported during the compliance period.

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017															
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 under The Environment (Protection) Act, 1986 & Rules.	<p>Complied.</p> <p>Noise level in and around CETP area are well within the standards.</p> <table><tr><th>Parameter</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm. Limit</th></tr><tr><td>Day Time</td><td>dB(A)</td><td>72.6</td><td>50.4</td><td>75</td></tr><tr><td>Night Time</td><td>dB(A)</td><td>68.4</td><td>46.5</td><td>70</td></tr></table> <p>D.G. sets were not operated during the compliance period due to continuous greed power supply.</p> <p>Monitoring report for the period from Oct'16 to March'17 is attached as Annexure – 4.</p>	Parameter	Unit	Max	Min	Perm. Limit	Day Time	dB(A)	72.6	50.4	75	Night Time	dB(A)	68.4	46.5	70
Parameter	Unit	Max	Min	Perm. Limit													
Day Time	dB(A)	72.6	50.4	75													
Night Time	dB(A)	68.4	46.5	70													
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 2.17 hectare of green belt with the density of 1500 trees per hectare. Total 3261 trees are planted within CETP premises.</p> <p>Details of the green belt development activity done by APSEZL Mundra along with photographs are attached as Annexure –6.</p>															

B. General Conditions

50	GPCB will ensure while granting CTE to individual units that no industry of heavy pollution is allowed in such SEZ.	Point Noted.
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. Not applicable at present.</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>

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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 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.	Point noted and agreed. CETP has functioned as desired efficiency and meeting with GPCB discharge norms during the entire compliance period. Hence no event of stop collecting the effluent is initiated.
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 has functioned as desired 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. 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'16 to Mar'17.
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'16 to Mar'17. No member has requested for enhancement of effluent quantity during the compliance period of Oct'16 to Mar'17

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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.
57	Good housekeeping shall be maintained within the CETP 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.	Complied. Good housekeeping is maintained within the CETP premises by the dedicated housekeeping staff. Leakages were attended and recorded in the MIS report of MUPL. All the maintenance work done during compliance period of Oct'16 to Mar'17 is attached as Annexure – 14 . No floor washing activity was carried out during the compliance period of Oct'16 to Mar'17.
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 accidental spillage has occurred during the compliance period of Oct'16 to Mar'17.
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 been 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 the compliance period of Oct'16 to Mar'17.

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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. A well structured Environment Management Cell exists, staffed with qualified manpower for implementation of the Environment Management Plan. EMC Organogram is enclosed as Annexure – 9 .
62	The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported	Separate budget for the Environment protection measures is earmarked every year. All environment and horticulture activities are considered at corporate level and budget allocation is done accordingly. No separate bank account is maintained for the same however, all the expenses are recorded in advanced accounting system of the organization. Budget for environmental management measures (including horticulture) for the FY 2016-17 is to the tune of INR 932 lakh. Out of which, Approx. INR 910 lakh are spent during F.Y. 2016-17. Detailed breakup of the expenditures is attached as Annexure – 10

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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 are planned out at Mundra by Adani Foundation.</p> <ol style="list-style-type: none"> 1 Community Health 2 Sustainable livelihood development -fisher folk 3 Education 4 Rural Infrastructure Development <p>Drinking water is being regularly provided to fisher folk community at</p> <p>Total of 93000 liters of water was supplied to 728 households from different settlements on a daily basis under Machhimar Shudhh Jal Yojana.</p> <p>Adani Foundation has installed RO Plant at Chhach Vistar at Zarpara. Also constructed under ground tank 1.0 lacs lit capacity at Rampar village of Anjar Taluka.</p> <p>Budget for CSR Activity for the FY 2016-17 is to the tune of INR 1535 lakh. Out of which, Approx. INR 1420 lakh are spent.</p> <p>Details of the CSR activity and expenditure for the period Oct-16 to March.'17 is enclosed Annexure – 11.</p>
64	The MUPL shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	Point noted.

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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.	Point noted. No expansion or modifications in the plant has been carried out during the compliance period Oct'16 to Mar'17.
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.	Complied.
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 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.	Already complied. Not applicable at present.

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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 st June and 1 st December of each calendar year.	Complied. Last half yearly Environmental Clearance compliance report was submitted to the Regional Office of MoEF & CC on 28.11.2016 in soft as well as hard copy.
69	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Complied. The stipulated norms made by GPCB are been followed. All required data regarding to water, hazardous waste emission load and energy consumption are submitted to GPCB by Patrak submission on monthly bases.
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 authorities and the date of start of project.	Already complied. Not applicable at present.
71	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Point noted.

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

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 20th February, 2010

Sr. No.	Specific Conditions	Compliance Status as on 31-03-2017
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

o/c

PCB ID: 10605



Env Cell/MUPL/CETP/EAR/2016/36

Date: 17.02.2017

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 01.04.2016 to 30.09.2016.

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 30.09.2016 with D.D. of Rs. 20,000 as scrutiny fees. The details of the same are as below.

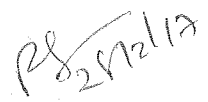
Name of Industry	:	MPSEZ Utilities Pvt. Ltd. (MUPL)
Address of the industry	:	S. No. / Plot No. 141 (Part)
	:	Village & Taluka: Mundra, Dist: Kutch - 370421.
Activity	:	Common Effluent Treatment Plant (2.5 MLD Capacity)
EC No.	:	SEIAA/GUJ/EC/7(h)/43/2010 dated 20.02.2010
CC&A Order No.	:	AWH-79311 dated 02.06.2016, valid up to 07.04.2021
D.D. No. & Date	:	175832 dated 17.02.2017
Bank Name	:	Axis Bank Ltd.
Total Amount	:	Rs. 20,000/- (Rs. 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


Gujarat Pollution Control Board
Sector No. 10 A,
Gandhinagar - 382 010

Encl:

- Three copies of Environmental Audit Report (EAR)
- D.D. of Rs. 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



ISSUING BRANCH

A/C PAYEE ONLY
VALID FOR THREE MONTHS FROM THE DATE OF ISSUE
AHMEDABAD [GJ]

DATE
दिनांक
D D M M Y Y Y Y
1 7 0 2 2 0 1

003

OR ORDER / या उनके आदेश

ON DEMAND PAY GUJARAT POLLUTION CONTROL BOARD
माँगे जाने पर

RUPEES Twenty Thousand only
रुपये

अदा करें

₹ *****20,000.00

FOR VALUE RECEIVED

OT
TT
of
TL
CC

DD Sr. No. 175032

PAYEE'S A/C. ONLY

003012100105

Payable at Par (B2K)

DRAWEE BANK AND BRANCH
अदा करता बैंक और शाखा

CODE NO.

AUTHORISED SIGNATORY
प्राधिकृत हस्ताक्षर कर्ता

Please sign above

AUTHORISED SIGNATORY
प्राधिकृत हस्ताक्षर कर्ता

18/02/2017
2365

11 175832 3802110021

16

Annexure – 2

Env. Cell/MUPL/CETP/AR/2017/01

Date: 03.03.2017

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 February 2017.

Sr. No.	Unit Name	Remarks
1.	M/s. Dorf Ketal Speciality Catalyst Pvt. Ltd.	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 30th 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.**

M 2-4-17
Received
Gujarat Pollution Control Board
Regional Office
Kutch (East)

M 21/3/17
Gujarat Pollution Control Board
Sector No. 10 A,
Gandhinagar - 382 010.

Analysis Report (CETP Inlet)

M/s Dorf Ketal Speciality Catalyst Pvt. Ltd.

Feb-17

Sr. No.	DATE	Start rdg.	Diff (KL)	PH	TDS	SS	COD	BOD	Chloride
				6.5-8.5	2100 mg/l	800 mg/l	2000 mg/l	1000 mg/l	1000 mg/l
1	1-Feb-17	89875	64	7.22	1800	-	42	14	898
2	2-Feb-17	89939	62	7.57	1900	-	57	19	812
3	3-Feb-17	90001	59	7.88	1800	-	61	20	908
4	4-Feb-17	90060	59	7.08	1900	-	74	25	888
5	5-Feb-17	90119	50	7.24	1800	-	57	19	908
6	6-Feb-17	90169	60	7.38	1900	-	70	23	924
7	7-Feb-17	90229	54	7.08	1900	-	50	17	888
8	8-Feb-17	90283	62	7.94	2000	-	42	14	916
9	9-Feb-17	90345	59	7.85	2000	-	59	20	894
10	10-Feb-17	90404	66	7.08	2000	-	63	21	876
11	11-Feb-17	90470	57	7.21	1800	-	71	24	890
12	12-Feb-17	90527	53	7.63	1900	-	69	23	921
13	13-Feb-17	90580	62	7.83	1800	-	73	24	863
14	14-Feb-17	90642	61	7.45	1900	-	74	25	883
15	15-Feb-17	90703	60	7.74	1800	-	80	27	845
16	16-Feb-17	90763	65	7.91	1900	13	54	18	874
17	17-Feb-17	90828	60	7.83	2000	17	61	20	891
18	18-Feb-17	90888	62	7.65	1800	10	69	23	883
19	19-Feb-17	90950	60	7.84	1900	11	49	16	864
20	20-Feb-17	91010	64	7.44	1800	15	52	17	884
21	21-Feb-17	91074	66	7.18	1900	9	71	24	844
22	22-Feb-17	91140	60	7.87	1800	2	44	15	918
23	23-Feb-17	91200	59	7.28	1800	11	64	21	887
24	24-Feb-17	91259	58	7.93	1800	18	58	19	928
25	25-Feb-17	91317	60	7.35	1900	8	50	17	893
26	26-Feb-17	91377	58	7.57	1800	11	59	20	935
27	27-Feb-17	91435	60	7.91	1800	14	68	23	857
28	28-Feb-17	91495	60	7.68	1900	12	84	28	891
29	1-Mar-17	91555							
			1680						

For



MPSEZ Utilities Pvt. Ltd

Analysis Report (CETP Inlet)

M/s Ahlstrom Fiber Composites India Pvt. Ltd.

Feb-17

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-Feb-17	21960	0	6.71	1200	-	494	165	456
2	2-Feb-17	21960	0	7.22	1400	-	596	199	566
3	3-Feb-17	21960	0	7.15	1500	-	498	166	583
4	4-Feb-17	21960	0	7.18	1300	-	513	171	615
5	5-Feb-17	21960	0	7.08	1400	-	461	154	618
6	6-Feb-17	21960	0	6.71	1400	-	617	206	608
7	7-Feb-17	21960	0	6.89	1400	-	583	194	571
8	8-Feb-17	21960	0	6.90	1400	-	569	190	689
9	9-Feb-17	21960	15	6.83	1400	-	515	172	590
10	10-Feb-17	21975	0	6.98	1400	-	498	166	554
11	11-Feb-17	21975	15	6.75	1700	-	521	174	572
12	12-Feb-17	21990	15	7.10	1400	-	414	138	575
13	13-Feb-17	22005	15	7.34	1500	-	501	168	510
14	14-Feb-17	22020	15	6.58	1500	-	486	162	534
15	15-Feb-17	22035	15	7.31	1400	-	505	168	558
16	16-Feb-17	22050	0	7.03	1500	297	513	171	631
17	17-Feb-17	22050	15	7.28	1400	186	596	198	703
18	18-Feb-17	22065	0	7.41	1500	205	644	215	628
19	19-Feb-17	22065	0	7.33	1500	249	577	192	641
20	20-Feb-17	22065	0	7.19	1300	308	579	193	633
21	21-Feb-17	22065	0	7.42	1400	212	494	164	519
22	22-Feb-17	22065	0	7.31	1400	186	552	184	542
23	23-Feb-17	22065	0	7.51	1500	175	478	159	531
24	24-Feb-17	22065	0	6.94	1500	231	567	189	551
25	25-Feb-17	22065	0	7.13	1400	210	525	175	44
26	26-Feb-17	22065	0	7.18	1400	233	550	183	513
27	27-Feb-17	22065	0	7.31	1400	224	534	178	513
28	28-Feb-17	22065	0	7.17	1400	188	459	153	531
29	1-Mar-17	22065							
			105						

For

MPSEZ Utilities Pvt Ltd



Analysis Report (CETP)

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

Feb-17

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-Feb	-	-	-	-	-	-	-
2	2-Feb	-	-	-	-	-	-	-
3	3-Feb	-	-	7.84	1600	-	450	150
4	4-Feb	-	-	-	-	-	-	-
5	5-Feb	-	-	-	-	-	-	-
6	6-Feb	-	-	-	-	-	-	-
7	7-Feb	-	-	-	-	-	-	-
8	8-Feb	-	-	-	-	-	-	-
9	9-Feb	-	-	-	-	-	-	-
10	10-Feb	-	-	7.94	1400	-	498	166
11	11-Feb	-	-	-	-	-	-	-
12	12-Feb	-	-	-	-	-	-	-
13	13-Feb	-	-	-	-	-	-	-
14	14-Feb	-	-	-	-	-	-	-
15	15-Feb	-	-	-	-	-	-	-
16	16-Feb	-	-	-	-	-	-	-
17	17-Feb	-	-	7.54	1600	212	569	190
18	18-Feb	-	-	-	-	-	-	-
19	19-Feb	-	-	-	-	-	-	-
20	20-Feb	-	-	-	-	-	-	-
21	21-Feb	-	-	-	-	-	-	-
22	22-Feb	-	-	-	-	-	-	-
23	23-Feb	-	-	-	-	-	-	-
24	24-Feb	-	-	7.86	1600	221	492	164
25	25-Feb	-	-	-	-	-	-	-
26	26-Feb	-	-	-	-	-	-	-
27	27-Feb	-	-	-	-	-	-	-
28	28-Feb	-	-	-	-	-	-	-
29	1-Mar	-	-	-	-	-	-	-

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

For

MPSEZ Utilities Pvt Ltd

Analysis Report (CETP)

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

Feb-17

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-Feb	-	-	-	-	-	-	-
2	2-Feb	-	-	-	-	-	-	-
3	3-Feb	-	-	8.27	1700	-	515	172
4	4-Feb	-	-	-	-	-	-	-
5	5-Feb	-	-	-	-	-	-	-
6	6-Feb	-	-	-	-	-	-	-
7	7-Feb	-	-	-	-	-	-	-
8	8-Feb	-	-	-	-	-	-	-
9	9-Feb	-	-	-	-	-	-	-
10	10-Feb	-	-	7.63	1500	-	568	189
11	11-Feb	-	-	-	-	-	-	-
12	12-Feb	-	-	-	-	-	-	-
13	13-Feb	-	-	-	-	-	-	-
14	14-Feb	-	-	-	-	-	-	-
15	15-Feb	-	-	-	-	-	-	-
16	16-Feb	-	-	-	-	-	-	-
17	17-Feb	-	-	7.86	1600	311	642	214
18	18-Feb	-	-	-	-	-	-	-
19	19-Feb	-	-	-	-	-	-	-
20	20-Feb	-	-	-	-	-	-	-
21	21-Feb	-	-	-	-	-	-	-
22	22-Feb	-	-	-	-	-	-	-
23	23-Feb	-	-	-	-	-	-	-
24	24-Feb	-	-	7.99	1700	325	587	196
25	25-Feb	-	-	-	-	-	-	-
26	26-Feb	-	-	-	-	-	-	-
27	27-Feb	-	-	-	-	-	-	-
28	28-Feb	-	-	-	-	-	-	-
29	1-Mar	-	-	-	-	-	-	-

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

For



MPSEZ Utilities Pvt Ltd

Analysis Report (CETP)

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

Feb-17

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-Feb	6668.2	23.0	-	-	-	-	-
2	2-Feb	6691.2	22.9	-	-	-	-	-
3	3-Feb	6714.1	33.5	8.15	1700	-	402	134
4	4-Feb	6747.6	33.3	-	-	-	-	-
5	5-Feb	6780.9	33.6	-	-	-	-	-
6	6-Feb	6814.5	33.1	-	-	-	-	-
7	7-Feb	6847.6	33.4	-	-	-	-	-
8	8-Feb	6881.0	32.8	-	-	-	-	-
9	9-Feb	6913.8	33.7	-	-	-	-	-
10	10-Feb	6947.5	30.3	7.55	1400	-	459	153
11	11-Feb	6977.8	35.2	-	-	-	-	-
12	12-Feb	7013.0	36.4	-	-	-	-	-
13	13-Feb	7049.4	48.0	-	-	-	-	-
14	14-Feb	7097.4	35.8	-	-	-	-	-
15	15-Feb	7133.2	37.5	-	-	-	-	-
16	16-Feb	7170.7	39.0	-	-	-	-	-
17	17-Feb	7209.7	39.7	7.68	1500	178	513	171
18	18-Feb	7249.4	38.8	-	-	-	-	-
19	19-Feb	7288.2	38.7	-	-	-	-	-
20	20-Feb	7326.9	38.1	-	-	-	-	-
21	21-Feb	7365.0	38.8	-	-	-	-	-
22	22-Feb	7403.8	38.5	-	-	-	-	-
23	23-Feb	7442.3	38.6	-	-	-	-	-
24	24-Feb	7480.9	33.3	7.71	1600	136	540	180
25	25-Feb	7514.2	35.9	-	-	-	-	-
26	26-Feb	7550.1	30.1	-	-	-	-	-
27	27-Feb	7580.2	37.9	-	-	-	-	-
28	28-Feb	7618.1	31.9	-	-	-	-	-
29	1-Mar	7650.0						
			981.8					

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

For

MPSEZ Utilities Pvt Ltd

Feb-17

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-Feb	537	4.05	7.56	1600	-	568	189	434	IHI
2	2-Feb	537	4.00	7.15	1500	-	758	253	369	Vijay
3	3-Feb	537	3.94	7.46	1700	-	649	216	328	IHI
4		537	4.00	7.50	1600	-	700	233	350	Vijay
5	4-Feb	537	3.95	7.28	1700	-	667	222	346	Vijay
6		537	3.95	7.57	1800	-	711	237	454	IHI
7	5-Feb	-	-	-	-	-	-	-	-	-
8	6-Feb	537	2.98	7.61	1600	-	774	258	328	Vijay
9	7-Feb	537	4.00	7.42	1700	-	761	254	361	IHI
10	8-Feb	537	3.88	7.29	1800	-	647	216	461	IHI
11		537	4	7.64	1700	-	707	236	342	Vijay
12	9-Feb	537	2.68	7.11	1600	-	714	238	329	Vijay
13	10-Feb	537	2.58	7.35	1600	-	653	218	389	Vijay
14	11-Feb	537	4.00	7.61	1900	-	705	235	421	IHI
15		537	3.59	7.25	1600	-	618	206	340	Vijay
16		537	4.00	7.51	1800	-	664	221	387	Toyo
17	12-Feb	-	-	-	-	-	-	-	-	-
18	13-Feb	537	4.00	7.24	1600	-	657	219	377	Vijay
19	14-Feb	537	3.95	7.43	1800	-	661	220	424	IHI
20			3.18	7.25	1600	-	750	250	357	Vijay
21	15-Feb	537	3.88	7.54	1500	-	743	248	443	IHI
22	16-Feb	537	4.00	7.38	1700	267	783	261	354	Vijay
23		537	4.00	7.75	1500	314	667	222	403	IHI
24	17-Feb	537	4.00	7.27	1500	214	686	228	338	Vijay
25	18-Feb	537	3.98	7.33	2000	324	714	238	327	IHI
26	19-Feb	-	-	-	-	-	-	-	-	-
27	20-Feb	537	3.58	7.22	1700	296	749	250	333	Vijay
28	21-Feb	-	-	-	-	-	-	-	-	-
29	22-Feb	537	3.82	7.36	1800	274	719	240	434	Vijay
30	23-Feb	537	4.00	7.36	1700	260	816	272	408	IHI
31		537	4.01	7.51	1800	264	677	225	368	Vijay
32	24-Feb	537	3.97	7.17	1600	310	663	221	451	Vijay
33	25-Feb	537	4.00	7.26	1600	281	716	239	436	Vijay
34		537	4.00	7.41	1600	321	863	288	351	IHI
35	26-Feb	-	-	-	-	-	-	-	-	-
36	27-Feb	537	3.98	7.26	1600	262	668	223	441	Vijay
37	28-Feb	537	3.93	7.5	1800	242	641	214	426	IHI
38			3.98	7.39	1500	226	761	254	344	Vijay
			125.86							

For

MPSEZ Utilities Pvt Ltd

Annexure – 3

Annexure – 3

Details of Water Consumption (Oct-16 to March-17)

Sr. No.	Month	Total water Cons, KL	Common Effluent Treatment Plant (CETP) Month wise Water consumption data in KL	
			Domestic	Industrial
1.	OCT – 16	170	35.00	135.00
2.	Nov – 16	191	42.00	154.00
3.	Dec – 16	258	93.00	165.00
4.	Jan – 17	199	49.00	150.00
5.	Feb – 17	184	45.00	139.00
6.	March – 17	161	31.00	130.00
	Total	1168.00	295.00	873.00

Collected Quantity of Trade Effluent and Treated Water Discharge

(Oct-16 to March-17)

Sr. No.	Month	Effluent collected from member units in KL	Treated water Discharge in KL
1	OCT – 16	2936	3344
2	Nov – 16	2884	3659
3	Dec – 16	3516	3818
4	Jan – 17	3675	3712
5	Feb – 17	3202	3260
6	March – 17	3953	3998
Total Quantity		20166.00	21791.00
Avg. Quantity per Day		110.80	119.73

Annexure – 4

"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 2016 TO MARCH 2017**

PREPARED BY:



**POLLUCON LABORATORIES PVT.LTD.
544, BELGIUM TOWERS, RING ROAD, SURAT – 395 003
PHONE/FAX – (+91 261) 2455 751, 2601 106, 2601 224.
E-mail: pollucon@gmail.com Web: www.polluconlab.com**

T 0820 - 821

ISO 9001:2008

ISO 14001:2004


OHSAS 18001:2007



RESULT OF CETP OUTLET

SR. NO.	TEST PARAMETERS	UNIT	CETP OUTLET						TEST METHOD
			Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	March-17	
1	pH	--	7.50	7.32	8.08	7.12	6.98	7.24	IS3025(P11)83Re.02
2	Temperature	°C	30	25	29	29	29	30	IS3025(P9)84Re.02
3	Colour	Co-pt	50	60	30	50	70	50	IS3025(P4)83Re.02
4	Total Suspended Solids	mg/L	28	31	28	20	26	36	IS3025(P17)84Re.02
5	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	APHA(22 nd Edi)5520D
6	Phenolic Compound	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	IS3025(P43)92Re.03
7	Ammonical Nitrogen	mg/L	1.77	1.96	1.64	1.40	5.59	1.80	IS3025(P34)88Cla.2.3
8	BOD (3 Days @ 27 °C)	mg/L	26	24	24	22	32	28	IS 3025 (P44)1993Re.03Edition2.1
9	COD	mg/L	104	94	90	76	96	94	APHA(22 nd Edi) 5520-D Open Reflux
10	Chloride as Cl	mg/L	840	819	482	726	719	614	IS3025(P32)88Re.99
11	Sulphate as SO ₄	mg/L	68	68	45.4	95.4	98.13	98.48	APHA(22 nd Edi)4500 SO ₄ E
12	Total Dissolved Solids	mg/L	1500	1575	1258	1956	1544	1386	IS3025(P16)84Re.02
13	SAR	--	3.39	3.91	5.44	2.26	2.39	1.92	By Calculation
14	Sodium as Na	%	36.67	53.91	44.36	48.66	44.81	46.54	AAS APHA(22 nd Edi) 3500 NA B/ Flame Photometer
15	Copper as Cu	mg/L	0.016	0.027	0.024	0.017	0.021	0.019	AAS APHA(22 nd Edi)3111 B
16	Nickel as Ni	mg/L	0.020	0.031	0.021	0.013	0.019	0.026	AAS APHA(22 nd Edi)3111 B
17	Cyanide as CN	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	APHA(22 nd Edi)4500CN E
18	Boron as B	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	APHA(22 nd Edi)4500 B
19	Insecticides/Pesticides	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	GC MS
20	Bio-assay Test	--	95 % Survival of fish after 96 hours in 100 % CETP Outlet effluent	90 % Survival of fish after 96 hours in 100 % CETP Outlet effluent	90 % Survival of fish after 96 hours in 100 % CETP Outlet effluent	95 % Survival of fish after 96 hours in 100 % CETP Outlet effluent	95 % Survival of fish after 96 hours in 100 % CETP Outlet effluent	95 % Survival of fish after 96 hours in 100 % CETP Outlet effluent	OECD 203 B/IS: 6582-1971
21	Residual Chlorine	mg/L	0.5	0.6	0.5	0.5	0.7	0.8	APHA(22 nd Edi)4500 Cl

*Below Detection Limit


H. T. Shah
Lab Manager




Dr. Arun Bajpai
Lab Manager (Q)

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

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

RESULT OF AMBIENT AIR QUALITY MONITORING

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	Hydrogen sulphide(H2S) µg/m3
1	01/10/2016	83.41	43.68	15.85	26.23	BDL*
2	05/10/2016	72.63	38.69	19.61	36.67	BDL*
3	08/10/2016	92.31	52.42	23.54	42.39	BDL*
4	12/10/2016	67.57	34.53	13.16	34.19	BDL*
5	15/10/2016	73.24	42.48	21.82	37.70	BDL*
6	19/10/2016	94.81	51.59	17.26	29.30	BDL*
7	22/10/2016	78.17	40.77	14.87	31.38	BDL*
8	26/10/2016	95.72	55.75	22.74	43.56	BDL*
9	28/10/2016	88.29	39.52	18.43	38.17	BDL*
10	02/11/2016	80.67	36.61	22.83	38.60	BDL*
11	05/11/2016	93.22	54.50	18.29	26.34	BDL*
12	09/11/2016	84.57	47.43	25.20	35.24	BDL*
13	12/11/2016	98.59	57.41	20.13	39.44	BDL*
14	16/11/2016	91.52	51.59	28.97	45.45	BDL*
15	19/11/2016	75.62	34.53	23.71	37.53	BDL*
16	23/11/2016	86.83	49.51	17.44	31.23	BDL*
17	26/11/2016	71.23	38.69	15.86	25.38	BDL*
18	30/11/2016	95.60	50.76	19.82	29.37	BDL*
19	03/12/2016	65.62	34.53	18.17	43.66	BDL*
20	07/12/2016	82.68	38.69	22.84	34.47	BDL*
21	10/12/2016	95.30	55.75	15.80	29.67	BDL*
22	14/12/2016	70.38	32.45	25.29	41.55	BDL*
23	17/12/2016	86.28	47.43	22.84	37.60	BDL*
24	21/12/2016	77.81	57.41	17.44	39.28	BDL*
25	24/12/2016	93.29	53.67	20.41	32.17	BDL*
26	28/12/2016	79.21	37.44	14.27	42.20	BDL*
27	31/12/2016	88.59	40.36	19.69	28.62	BDL*
28	04/01/2017	84.33	46.60	25.72	39.15	BDL*
29	07/01/2017	71.23	30.37	19.64	34.60	BDL*
30	11/01/2017	94.50	50.76	28.38	45.57	BDL*

Continue ...

H. T. Shah
Lab ManagerDr. Arun Bajpai
Lab Manager (Q)

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

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

WTP- NEAR CETP						
Sr.No.	Date of Sampling	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	Particulate Matter (PM2.5) $\mu\text{g}/\text{m}^3$	Sulphur Dioxide (SO ₂) $\mu\text{g}/\text{m}^3$	Oxides of Nitrogen (NO ₂) $\mu\text{g}/\text{m}^3$	Hydrogen sulphide(H ₂ S) $\mu\text{g}/\text{m}^3$
31	14/01/2017	82.50	43.68	21.62	37.55	BDL*
32	18/01/2017	91.58	52.45	18.75	42.62	BDL*
33	21/01/2017	85.61	49.51	16.96	30.47	BDL*
34	25/01/2017	79.27	36.61	22.35	28.48	BDL*
35	28/01/2017	92.62	54.50	14.27	35.40	BDL*
36	01/02/2017	86.58	48.68	17.69	28.33	BDL*
37	04/02/2017	79.58	42.44	20.63	32.41	BDL*
38	08/02/2017	64.28	28.71	23.64	35.88	BDL*
39	11/02/2017	92.37	54.50	15.76	38.40	BDL*
40	15/02/2017	71.59	36.61	18.31	33.34	BDL*
41	18/02/2017	89.33	44.52	11.38	29.59	BDL*
42	22/02/2017	75.31	33.70	24.76	34.27	BDL*
43	25/02/2017	84.33	49.51	13.18	24.76	BDL*
44	01/03/2017	77.63	42.44	19.50	42.62	BDL*
45	04/03/2017	82.62	35.36	22.91	37.22	BDL*
46	08/03/2017	64.40	30.37	15.85	35.41	BDL*
47	11/03/2017	92.37	53.67	24.41	44.74	BDL*
48	15/03/2017	86.40	48.68	17.49	36.51	BDL*
49	18/03/2017	75.62	29.54	21.20	41.13	BDL*
50	22/03/2017	83.17	33.70	23.62	34.16	BDL*
51	25/03/2017	96.52	55.75	13.17	31.38	BDL*
52	29/03/2017	80.43	32.45	16.79	39.01	BDL*
TEST METHOD		IS:5182(Part 23):Gravimetric CPCB - Method (Vol.I,May-2011)	Gravimetric- CPCB - Method (Vol.I,May-2011)	IS:5182(Part II):Improved West and Gaeke	IS:5182(Part VI):Modified Jacob & Hochheiser (NaOH-NaAsO ₂)	IS:5182(Part VII) 1973

*Below detection limit

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

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

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

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

SR. NO.	Name of Location	CETP					
		Result [dB(A) Leq]					
		12/10/2016	02/11/2016	01/12/2016	02/01/2017	01/02/2017	01/03/2017
1	6:00-7:00	57.1	67.2	58.1	63.1	59.3	57.7
2	7:00-8:00	58.1	62.2	62.4	65.8	61.7	60.3
3	8:00-9:00	63.0	69.6	65.4	65.7	64.3	67.4
4	9:00-10:00	65.4	64.5	61.8	62.4	69.3	65.4
5	10:00-11:00	68.1	68.5	69.4	69.2	70.3	64.5
6	11:00-12:00	62.4	70.2	62.8	63.5	65.2	68.3
7	12:00-13:00	70.1	68.0	63.4	72.1	68.3	67.4
8	13:00-14:00	72.6	69.5	64.8	70.5	65.3	65.3
9	14:00-15:00	68.1	67.3	69.4	68.4	65.9	62.5
10	15:00-16:00	65.4	65.2	65.1	68.1	67.3	68.3
11	16:00-17:00	68.1	63.9	61.8	62.4	69.2	64.5
12	17:00-18:00	63.4	68.9	68.4	65.1	64.2	68.3
13	18:00-19:00	65.1	64.5	64.8	68.4	68.2	70.3
14	19:00-20:00	72.1	64.5	69.4	61.7	62.9	68.8
15	20:00-21:00	70.1	64.2	61.4	60.4	65.3	65.3
16	21:00-22:00	68.5	68.9	60.8	60.8	62.8	67.4
Day Time Limit*		75 dB(A) Leq					

Result of Noise level monitoring [Night Time]

SR. NO.	Name of Location	CETP					
		Result [dB(A) Leq]					
		12/10/2016	02/11/2016	01/12/2016	02/01/2017	01/02/2017	01/03/2017
1	22:00-23:00	62.1	59.6	60.7	65.1	60.4	58.4
2	23:00-00:00	64.2	58.4	65.4	63.4	62.4	60.3
3	00:00-01:00	59.7	63.4	68.4	61.7	58.2	63.4
4	01:00-02:00	62.4	63.8	62.4	61.8	62.5	61.4
5	02:00-03:00	68.1	61.2	60.4	68.4	62.3	60.4
6	03:00-04:00	65.4	64.8	65.4	65.2	65.2	60.2
7	04:00-05:00	66.2	62.9	62.4	61.2	61.2	58.4
8	05:00-06:00	66.2	67.1	61.5	63.8	63.8	59.4
Night Time Limit*		70 dB(A) Leq					

H. T. Shah
Lab ManagerDr. 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

Minimum Detection Limit [MDL]

Water parameter(mg/L)		
Sr. No.	Test parameter	MDL
1	Total Suspended Solids	1
2	Oil & Grease	1
3	BOD	3
4	COD	5
6	Total Dissolved Solids	3
7	Sulphate	0.3
8	Ammonical Nitrogen	0.05
9	Nickel	0.01
10	Phenolic Compound	0.001
11	Fluoride	0.01
12	Copper	0.013
13	Sulphide	0.01
15	Cyanide	0.0001
16	Residual Chlorine	0.1
17	Boron	0.02
17	Insecticides/Pesticides	0.01
19	Nitrate Nitrogen	0.15
20	Phosphorous	0.15
21	Petroleum Hydrocarbon	0.01
22	Lead	0.005
23	Mercury	0.0005
24	Zinc	0.022
25	Cadmium	0.001
26	Arsenic	0.00015
Sediment parameter(mg/kg)		
1	Petroleum Hydrocarbon	0.2

Ambient Air Parameter		
Sr. No.	Test parameter	MDL
1	Particulate Matter (PM10)	10
2	Particulate Matter (PM 2.5)	10
3	Sulphur Dioxide (SO ₂) (µg/m ³)	5
4	Oxides of Nitrogen (µg/m ³)	5
5	Hydrogen Sulphide as H ₂ S (µg/m ³)	6

H. T. Shah
Lab ManagerDr. Arun Bajpai
Lab Manager (Q)

Annexure – 5



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

**Gujarat Pollution Control Board,
Gj Ins. Desert Ecology
Gj Ins. Desert Ecology
Mundra Road
BHUJ-370001**

Sample ID:200644 - Analysis Completion:09/01/2017

**Common Treatment and disposal facilities (CETP, TSDF,
E-Waste recycling, CBMWTF, Effluent conveyance project,
incinerators, Solvent/Acid recovery plant, MSW sanitary
landfill sites, STP) / LAB Inward : 13396**

TEST REPORT

Test Report No. : 13396

Date: 13/01/2017

- | | |
|---------------------------------------------------------|------------------------------------------------------------------------------------|
| 1. Name of the Customer | : Mpsez Utilities Pvt. Ltd.(Mupl) - 10605 |
| 2. Address | : SURVEY NO. 141 (PART),SURVEY NO. 141 (PART),VILL MUNDRA,SURVEY NO. MUNDRA |
| 3. Nature of Sample | : REP-Representative/Grab, (Insp Type : ROU-Routine Visit) |
| 4. Sample Collected By | : R.H.JIVANI,SO |
| 5. Quantity of Sample Received | : 5000 |
| 6. Code No. of the Sample | : 200644 |
| 7. Date & Time of Collection & Inwarding | : 02/12/2016 , (1255 to 1300) & 05/12/2016 |
| 8. Date of Start & Completion of Analysis | : 05/12/2016 & 09/01/2017 |
| 9. Sampling Point | : ## Final Outlet of the ETP ~ From final out let of CETP |
| 10. Flow Details (Remarks) | : -- |
| 11. Mode of Disposal | : On land for gardening and plantation |
| 12. Ultimate Receiving Body | : u/g strata |
| 13. Temperature on Collection | : & pH Range on pH Strip :@ 7-8 on pH strip |
| 14. Carboys Nos for | : W-4 & Color & Appearance :Colourless |
| 15. Water Consumption & W.W.G (KLPD) | : Ind :80.000 , Dom :20.000 & Ind :0.000 , Dom :15.000 |

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	Centigrade	IS: 3025 (Part – 9) – 1984(Reaffirmed 2006)	Ambient oC - 60 oC	0
2	pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 – 14 pH value As or	7.2
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	20
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Methoc	10 – 200000 mg/L	1830
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Methoc	2 – 10000 mg/L	15
6	Ammonical Nitrogen	mg/l	1).Titrimetric method (4500 NH3 B & C APHA Standa	1 - 2000 mg/l.	BDL
7	Percent Sodium	%Na	IS11624-1986(Reaffirmed 2009)	0.01 – 100%.	77.98
8	Chloride	mg/l	Argentometric method. (4500 Cl? B APHA Standard M	1 - 50000 mg/l	704
9	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	233
10	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	52
11	Oil & Grease	mg/l	Liquid – Liquid Partition Gravimetric method. (5520 B	01 – 1000 mg/l	1.6
12	Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra	0.1 – 50 mg/l	0.714
13	Fluoride	mg/l	SPADNS method (4500-F-D APHA standard Methods	0.10-40 mg/l	1.2
14	Hexavalent Chromium	mg/l	APHA (22nd Edition) –3500 – Cr B : -2012 Colorimet	0.1 – 100 mg/l	BDL
15	Copper	mg/l	3111 B APHA Standard methods 21st edi)	0.01-150 mg/l	BDL
16	Nickel	mg/l	(3111 B APHA Standard methods 21st edi)	0.02-150 mg/l	BDL
17	B.O.D (3 Days 27oC)	mg/l	3 – Day BOD test. (IS 3025 (Part 44) 1993 Reaffirme	05–50000 mg/l	12.8

Laboratory Remarks : Freeze (AWH-79311, 02/06/2016) By:682-ae_682 Dt.: 13/01/2017



Dr. S. N. Agravat, Lab Head

Field Observation :

Note :

1. * - These parameters are 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 amended by Second and Third amendment 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

Details of Greenbelt development at APSEZ, Mundra

LOCATION	Total Green Zone Detail Till Up to March - 2017				
	Area (In Ha.)	Trees (Nos.)	Palm (Nos.)	Shrubs (SQM)	Lawn (SQM)
SV COLONY	61.09	28287.00	6965.00	50020.00	80069.00
PORT & NON SEZ	71.96	124946.00	18613.00	62986.78	58455.18
SEZ	94.01	158335.00	15924.00	250449.60	27462.03
MITAP	2.48	8168.00	33.00	1670.00	4036.00
WEST PORT	81.34	181827.00	50221.00	24112.00	22854.15
AGRO- PARK	7.52	17244.00	1332.00	5400.00	2121.44
SOUTH PORT	14.08	25150.00	3430.00	3882.00	4826.97
Samundra Township	48.62	24602.00	12505.00	19978.07	35071.67
Productive Farming (Vadala Farm)	15.69	19336.00	0.00	0.00	0.00
TOTAL (APSEZL)	396.79	587895.00	109023.00	418498.45	234896.44
		696918.00			

❖ Within CETP Premises



Annexure – 7

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			8.51	8.52	8.52	8.52	8.52	8.52					
Equalisation Tank I	pH			7.50	7.50	7.50	7.50	7.50	7.50					
Equalisation tank II	pH			8.24	8.22	8.22	8.24	8.23	8.25					
Neutralization Tank	pH			8.02	8.02	8.02	8.02	8.02	8.02					
Aeration tank I	DO													
Aeration tank II	DO			1.05	1.05	1.05	1.05	1.05	1.05					
Guard Pond I	pH			7.80	7.80	7.80	7.80	7.80	7.80					
Guard Pond II	pH			8.12	8.12	8.12	8.12	8.12	8.12					
Chlorination ORP	Res. Cl													

Daily Analysis

Unit	pH	TDS mg/ltr.	TSS mg/ltr.	COD mg/ltr.	BOD mg/ltr.	Chloride ppm	MLSS/MLVSS - AT ppm
Un Treated water	8.38	1500	74	138	46	794	
Clarified Water							
Treated Water	8.18	1500	22	51	17	684	
Aeration tank							
Return Sludge							
Dorf Ketel	8.1	2000	5	61	20	813	
Ahlstrom	7.18	1400	188	525	175	638	
Ashapura Garments							
MITAP (Comm. Fac.)	7.56	1500	144	310	109	-	
SKAPS (Unit - I)	7.89	1600	254	490	163	-	
SKAPS (Unit - II)	8.18	1700	324	564	188	-	
GSPC (IHI)	7.5	1500	238	794	265	455	
GSPC (ITD)							
GSPC (Vijay)	7.5	1700	209	645	215	405	
GSPC (Toyo Engg.)							

Remarks

Operator/Supervisor

N.P. Rathod

Analyst

Annexure – 8

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

RESULTS OF BORE HOLE WATER

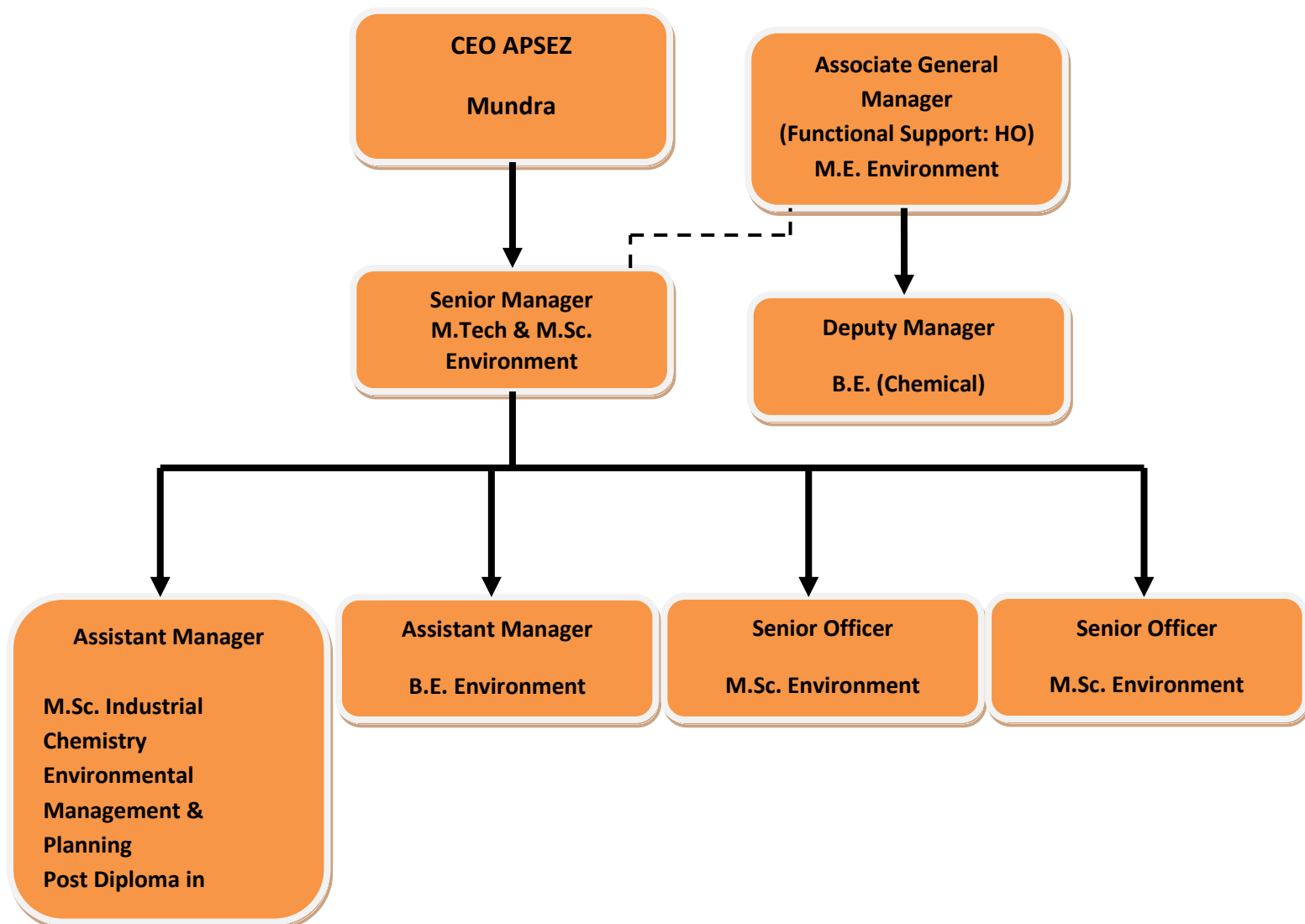
SR NO	TEST PARAMETERS	UNIT	RESULTS		TEST METHOD
			NEAR CETP MAIN GATE		
	GPS Location		N 22° 48.630' S 069° 42.393'		
	Sampling Date		18/10/2016	18/01/2017	
	Sampling Time		16:45	13:05	
	Status of Tide		L-09:17 & 1.51 m	H-10:48 & 4.91 m	
			L-21:27 & 0.67 m	L-16:52 & 2.17 m	
1	pH	--	7.87	9:50	IS3025(P11)83Re.02
2	Salinity	mg/L	2.98	4.11	APHA 2520B
3	Oil & Grease	mg/L	BDL*	BDL*	APHA(22 nd Edi)5520D
4	Hydrocarbon	mg/L	BDL*	BDL*	GC/GC-MS
5	Lead as Pb	mg/L	BDL*	BDL*	AAS APHA(22 nd Edi)3111 B
6	Arsenic as As	mg/L	BDL*	BDL*	AAS APHA 3114 B
7	Nickel as Ni	mg/L	BDL*	BDL*	AAS APHA(22 nd Edi)3111 B
8	Total Chromium as Cr	mg/L	0.018	0.017	AAS 3111B
9	Cadmium as Cd	mg/L	BDL*	BDL*	AAS APHA(22 nd Edi)3111 B
10	Mercury as Hg	mg/L	BDL*	BDL*	AAS APHA- 3112 B
11	Zinc as Zn	mg/L	0.032	0.029	AAS APHA(22 nd Edi)3111 B
12	Copper as Cu	mg/L	BDL*	BDL*	AAS APHA(22 nd Edi)3111 B
13	Iron as Fe	mg/L	0.046	0.041	AAS APHA(22 nd Edi)3111 B
14	Insecticides/Pesticides	mg/L	BDL*	BDL*	GC/GC-MS
15	Depth of Water Level from Ground Level	meter	2.85	2.28	--

H. T. Shah
Lab Manager

Dr. Arun Bajpai
Lab Manager (Q)

Annexure – 9

Organogram of Environment Management Cell, APSEZ, Mundra



ANNEXURE – 10

Cost of Environmental Protection Measures

Sr. No.	Activity	Cost incurred (INR in Lakh)			Budgeted Cost (INR in Lakh)
		2014 – 15	2015 – 16	2016 – 17	2016 – 17
1.	Environmental Study / Audit and Consultancy	29.87	45.45	36.78	49.98
2.	Legal & Statutory Expenses	11.26	3.30	4.76	7.88
3.	Environmental Monitoring Services	23.76	26.80	27.95	32.82
4.	Hazardous Waste Management & Disposal	9.56	34.56	12.52	12.75
5.	Environment Day Celebration	7.01	7.18	6.71	12.00
6.	Treatment and Disposal of Bio-Medical Waste	1.00	1.22	1.27	1.44
7.	Mangrove Plantation	127.97	53.28	46.18	30.00
8.	Mangrove Monitoring & Conservation	36.75	20.36	26.20	40.00
9.	Horticulture Expenses	380.27	434.72	555.00	516.00
10.	O&M of Sewage Treatment Plant and Effluent Treatment Plant (including STP, ETP of Port & SEZ & Common Effluent Treatment Plant)	30.78	18.18	61.50	98.85
11.	Expenditure of Environment Dept. (Apart from above head)	184.91	135.90	131.83	130.32
Total		843.14	837.73	910.70	932.04

ANNEXURE – 11

Adani Foundation, Mundra



2016-17 ANNUAL REPORT



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

Index

1	COMMUNITY HEALTH		Food for cattle
	Mobile Van and Rural Clinics		Beti Vadhava Abhiyan
	Health Card to Senior Citizen		Women Empowerment Projects
	"Suposhan"		Coordination with Government for Widow and Senior Citizen
	Support for Medical Aid to Deprived		
	Health Camps	3	EDUCATION
	CALMED Project		UDAAN
	Kidney Stone : Awareness n Treatment		Material Support to Govt Schools
			Shala Praveshotsav
	AWARENESS SESSIONS BY MEDICAL OFFICERS		Adai Education Development Centre
	Gujrat Adani Institute of Medical Sciences		Adani Vidya Mandir Bhadreswar
2	SUSTAINABLE LIVLIHOOD DEVELOPMENT – FISHERFOLK	4	RURAL INFRASTRUCTURE DEVELOPMENT
	Vidya Deep Yojana		Water Conservation Projects
	Vidya Sahay Yojana – Scholarship Support		Drinking Water Related Projects
	Machhimar Arogya Yojana		Education Related Projects
	Machhimar Kaushalya Vardhan Yojana		Health Related Projects:
	Machhimar Shudhh Jal Yojana		Fisherman Related Projects:
	Machhimar Awas Yojana		Other Projects
	Machhimar Sadhan Sahay Yojana	5	ADANI SKILL DEVELOPMENT CENTRE
	Sughad Yojana	6	EVENTS
	Machhimar Ajivika Uparjan Yojana	7	THANKS LETTERS
	Drive for Technology to use in agriculture	8	MEDIA NOTE

Message from Head, Adani Foundation, Mundra....

The year 2016-17 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.

This year conceded with more streamline procedure of grievance mechanism, milestone achievement in malnourishment project, considerable impact created by fisherman amenities projects and new era defined in agriculture projects.

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.

Our Achievement would not be possible without the ultimate support by Mr. Rakshit Shah, Executive Director - APSEZ and plentiful faith and passionate support by Dr. (Mrs.) Priti G Adani, Managing Trustee – Adani Foundation.

Mr. Mukesh Saxena
Head,
Adani Foundation



Community Health

It is not a coincidence that the first four letters of health is "Heal". Instilling health pursuing activities and ensuring availability of quality health care services to the remote areas is the objective of this sector. Committed to "Health for All" the Foundation runs Mobile Health Care Units, Rural Clinics, Special Innovative Projects i.e. Health Card to Senior Citizens, "Suposhan"- Fighting to Mal nourishment in Mundra and Kidney Stone Project and Variety of Health Related Camps.



Mobile Dispensaries & Rural Clinics

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

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

The Adani Foundation runs two mobile health care units – One at Mundra and the other at Bitta. Main objective of Mobile Van is to reduce travel time, hardships and expenses. Two mobile health care units cover 29 villages at Mundra, 8 villages at Bitta and 06 fishermen settlements. Around 121 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.

The Adani Foundation operates Rural Dispensaries in 08 villages of Mundra block, 03 villages of Anjar block and at SEZ Gate. At these dispensaries, health services are provided free of charge for two hours daily by a doctor and a volunteer.

Sr.	Month	MHCU Month wise Data-2016/17	Rural Clinic OPD Data-2016/17
1	April	2714	2833
2	May	2873	2505
3	June	2947	3055
4	July	3262	3550
5	Aug.	3197	3712
6	Sep.	4384	3659
7	Oct.	2865	3631
8	Nov.	3890	3513
9	Dec.	4242	3513
10	Jan.	3936	3989
11	Feb.	4367	3790
12	March	3900	3200
	Total	42547	40950

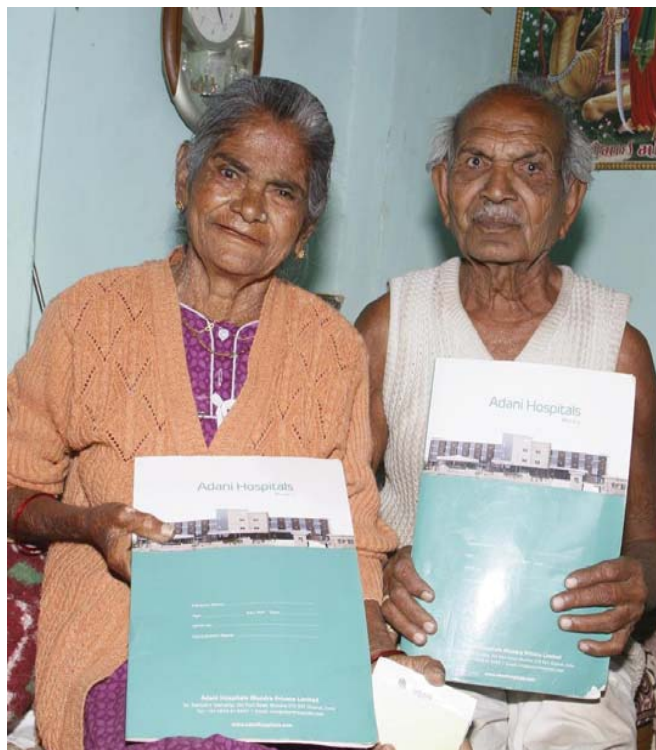


Details of transaction

Sr.	Month	Sr.Citizen
1	April	677
2	May	648
3	June	698
4	July	757
5	Aug.	815
6	Sep.	822
7	Oct.	871
8	Nov.	742
9	Dec	808
10	Jan	833
11	Feb	896
12	March	800
	Total	9367

Health Cards to Senior Citizens

- **Expected Outcome**
Rapport building with families of old age persons and other stakeholders. 62 villages will be covered through this intervention. District Civil Hospital in Bhuj will take care of all planned medical interventions. Only emergency and primary treatment cost will be incurred from Adani Hospital Mundra
- **Expected Impact**
Social security for old age persons (as health matters in old age). Building good image and long run relationship.



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 Vadi 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 2016-17, total 9367 transactions were done by 7487 card holders of 66 villages of Mundra Taluka. They received cash less medical services under this project.

In Green Card category, 6665 aged people got treated for various illness & diseases at Adani hospitals, Mundra with an aid up to a limit of Rs. 50,000/- within the period of 3 years. The 822 Blue Card Holders can avail diagnosis facility and treatment at a subsidized rate in the Adani hospitals, Mundra. Scheme is continue since six years and We are planning to extend the project for next three years period.

"Suposhan"

Basis of Requirement

Malnutrition amongst Children, Adolescent girls and Women in India is an alarming phenomenon. (In India: 48 % or 54 million children under-five years were stunted. India accounted for 33 % of stunted children in the world. As per Global Nutrition Report released recently, Children below five years- 38.7 % Stunted and 15.1% are wasted. 69.5% children 6-59 months old, 55.8% adolescent girls aged 15-18 years, 55.3% women aged 15-49 years have Anaemia. Moreover anaemia prevalence in pregnant women is as high as 58.7%) Curbing Malnutrition was part of Millennium Development Goals and again focussed through second and third Sustainable Development Goals on Zero hunger and Good Health & Wellbeing respectively.



Sr. No.	Detail of Village & Work	No of total
1	Total village	61
2	Pending village	7
3	Villages in progress	54
4	Total sangini	28
5	Total Anganwadi in Mundra block	104
6	Total cover Anganwadi	86
7	Pending Anganwadi	20
8	Anthropometric study	7101
9	SAM children	22
10	MAM children	9
11	CMTC admitted	16
12	Total adolescent group	169
13	Reproductive women group	185
14	FGD	369
15	Hb testing (adole. girls and women)	2292
16	RUTF distribution	23
17	PRA	6
18	Camps-CMTC (SAM-MAM)	2
19	No. of beneficiaries	106
20	Total household survey	18185
21	family based counselling	83
22	Total events of project	95
23	Total sangini meeting	10
24	Total training	6

“Suposhan ”

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 objectives

- **Curb malnutrition amongst Children,**
- **Adolescent girls and Women in our CSR villages**
- **To reduce malnutrition and anaemia amongst adolescent girls and pregnant & lactating women by 70% in three years**
- **Reduction IMR and MMR**
- With combined efforts of Adani Foundation health team, ICDS and Child malnourishment treatment centre of GoG, we had identified 45 malnourished children and started intervention as per their illness. Now, 14 children reached to normal category and it is achievement of Adani Foundation. RUTF distribution done to 23 children and it really started to give magical results and positive response of parents for RUTF therapy has increased our enthusiasm.
- Adolescent girls group forming is in progress Total 169 groups are already formed. HB Testing completed for 2292 girls. We are getting good support in HB testing as the Touch HB machine is needle less capacity.
- Likewise more than 180 groups are formed for reproductive age group women. In this age group we are getting most appreciable response due to most of our Sangini are of the same age.



Implementation Strategy

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

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

Expected Outputs

- Community Health vertical at each location would focus on project on "Curing Malnutrition amongst Children, Adolescent girls and Women "with combined approach of community management of Malnutrition and Anaemia and necessary medical treatment components.
- Each child and especially malnourished will be mapped with growth chart
- Regular inputs of RUTF treatment when necessary.
- FDGs with mothers and adolescent girls.
- Village meeting one in a month at every village
- Health camp every month
- Awareness campaigns.

Expected Outcomes

- To reduce the occurrence of malnutrition amongst Children by 95 % in three years
- To reduce malnutrition and anaemia amongst adolescent girls and pregnant & lactating women by 70% in three years
- To create awareness about the issue of malnutrition and anaemia and related factors amongst all stakeholders and role they may play in curbing the issue
- To create a pool of resources to be utilised for combating the issue of Malnutrition and Anaemia
- To support efforts in reducing IMR and MMR



Support for Medical Aid to Deprived

The scope of the organization extended up to providing best health care facilities to the needy, poor, challenged and not so well-to-do families for the treatment of illness and diseases. It is not always possible to predict the medical expenses. Moreover, those who are economically not so sound, become indebted for lifetime in case of certain illnesses. Therefore, Adani Foundation provides primary health care and financial assistance for ailments such as kidney related problems, paralysis, cancerous and tumor surgeries, neurological and heart problems, blood pressure, diabetes etc. In current month we organized two medical examination camps in which **Medical Support was given to 1413 People from Mundra, Bhadreswar, Zarpara, Shekhadia Nana Mota Kapaya, Bhujpur, Vadala, Wandi and other villages under our work area.**

Medical Supports		
1	April	58
2	May	50
3	June	40
4	July	43
5	Aug.	95
6	Sep.	96
7	Oct.	85
8	Nov.	98
9	Dec.	166
10	Jan.	257
11	Feb.	225
12	March	200
Total		1413



General Health Camp Data

Sr.no.	Month	Date	Place	Total Patinets
1	16-Apr	26&27.04.2016	Tuna- Wandh Health Camp	74
2	16-Apr	15.4.2016	Samuh Sadi Mundra	81
3	16-Apr	9.4.2016	Ganesh mandir Mela	31
4	16-May	3&4.05.2016	Tuna- Wandh Health Camp	111
5	16-May	8.5.2016	Boliya Samuh Sadi	76
6	16-Jul	20.7.2016	Govt.School Health Camp-Bhadreswar	178
7	16-Aug	16-Aug	Marin police through Medical Camp- Bhadreswar	37
8	16-Aug	13 to 15.8.2016	Bharadi Mata Camp Navinal	100
9	16-Sep	2 to 9.9.2016	Shiv puran Katha Vandh	275
10	16-Oct	24.10.2016	Uras – Luni & Garib Kalyan Melo-Mundra	218
11	16-Dec	13.12.2016	Bukhari pir melo-Mundra	110
12	16-Dec	26.12.2016	Juna Bandar	53
13	17-Jan	27.01.2017	AVM-Bhadreswar	14
14	01-Feb	18.02.2017	Seth R.D. High school - Health Camp	210
Total				1568

Health Camps

Various health camps are organized at regular intervals to meet the specific requirements of the community. Screening camps are organized regularly as per the route map planned in coordination with Adani Hospitals. **During the year 2016-17, 14 specialty camps were organized and 1568 Patients were benefitted.**



CALMED PROJECT- Collaborative Actions in Lowering Maternity Encounters Death

Adani Foundation has been looking after the health requirements of Mundra block for a long time. It has got a rich experience to address the preventive and curative health measures at Mundra belt. Therefore it was assessed by the Adani Foundation team that the most burning problem of this region is to cure Maternal Health, therefore, The demand was raised from the AF staff to improve the maternal health. Looking at the strengths of AF the following role has been identified. The prime objective is to reduce maternal and new born mortality through a collaborative cascade of training, briefings, publicity and monitoring. An effective programme to reduce maternal mortality (MDG 5A) requires collective efforts by Government, Professionals and Communities to deal with medical and administrative issues in a top down and bottoms up approach as both the approaches are important and complementing to one another.

Activities proposed for this project are Selection of CHC/PHC, Training of trainers, AF Involvement in Target Areas, Identification of Needs in Target Areas, Implementation-mechanism, Publicity, and Communication-A Preparing Training Materials in MCH- Funding - Reporting: The project consultant of this project will submit monthly planning to AF

Capacity building inputs to AF staff in Maternal and child health situation so that at the initial stage they can reduce the maternal encountered death at Mundra Block. Implementation Strategy of the project: Master trainers has identified i.e. doctors from Adani Foundation, Adani Hospitals Mundra and Gujarat Adani Institute of Medical Sciences. Co - trainers would also be selected. These Master trainers had further percolated the knowledge and skill to ANM/ASHA for the last 2 years and will continue current year also.



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 Adani 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) during this year.



PHYSIOTHERAPY CAMPS

Adani Foundation is providing physiotherapy service to differently abled children's in coordination with BRC-Mundra. **This year total 18 children have taken physiotherapy at Adani hospital.**



Health Awareness session Data- April to December-2016			
Month	Topic	Villages	Total
April	Health Hygiene & Cleanliness	Ganesh Mandir- Luni	80
June	Health Hygiene & Cleanliness	Govt.School- Bhadreswar	70
July	Diseases & Personal Hygiene in monsoon season	Govt.school- Moti Bhujpur	370
Aug.	Personal Hygiene in monsoon season	Govt.School- Moti Khakhar	75
Sep.	Health Hygiene & Cleanliness	Govt.school- Zarpara	325
Oct.	Dengue fever information & Awareness Generation session	Govt.school- Gundala	75
Nov.	Personal Hygiene & Cleanliness	Govt High .School – Moti Bhujpur	210
Dec.	HIV-aids information & Awareness Generation session	Bed collage Mundra	110
Total			1315

AWARENESS SESSIONS BY MEDICAL OFFICERS:

Awareness sessions at various schools and colleges were conducted to sensitize the future generations and teachers for further cooperation and coordination on various topics of women health. We had included women health issues such as anemia, menstrual disorders, breast cancer, cervical cancer etc. to promote awareness among the people. **During this year more than 1300 students are benefitted by awareness sessions**

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 last year and established a reception area for the smooth patient coordination and preparation for the social networking programme.
- Adani Foundation organized General Health Camps and Speciality Camps in various interior villages of Kutch in coordination with GKGH which created magical impact and benefitted 3335 patients. Adani Foundation Bhuj Health team has also organized more than ten awareness camps and village level meetings at 293 villages of Kutch regarding services of GKGH.
- Dead body medical van** – Dignity to death is one of the noble initiatives taken up by the Adani Foundation. If any death occurs in GKGH, dead bodies are shifted to the native village of the concerned in the Kutch District free of cost. **Total 584 dead bodies privileged till now to different locations in Kutch.**



Disease wise Data					
Month	Dengue	Jaundice	Malaria	HIV	TB
April	7	0	0	8	55
May	11	35	2	7	46
Jun	4	46	1	4	35
July	1	149	6	4	47
Aug	3	54	19	6	48
Sep	25	80	33	3	32
Oct	49	41	27	6	35
Nov	75	18	35	18	26
Dec	29	7	11	3	24
Jan	16	6	5	0	40
Feb	15	5	7	0	32

OPD/IPD Data		
Month	OPD	IPD
April	16221	2130
May	15652	2223
Jun	15420	2232
July	16819	2396
Aug	18494	2597
Sep	19121	2575
Oct	17919	2471
Nov	19998	2541
Dec	23053	8534
Jan	22693	7381
Feb	23217	7241

Safe child Project Annual Analysis			
No.	Month	Students	School
1	June	573	3
2	July	1489	7
3	August	1305	6
4	September	1964	6
5	October	1007	4
6	November	68	1
7	December	882	5
8	January	163	5
9	February	204	3
Total		7507	38

Death Body Van Data			
No.	Month	AF Van	Death in GKGH
1	April	51	72
2	May	46	134
3	Jun	52	103
4	July	51	115
5	Aug	50	115
6	Sep	54	72
7	Oct	50	82
8	Nov	59	75
9	Dec	53	73
10	Jan	60	77
11	Feb	58	64
	Total	584	982

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	50
2	Luni Bandar	28
3	Bavdi Bandar	35
4	Zarapra	32
	Total	145



Vidya Sahay Yojana – Scholarship Support

Under this programme, special attention is given to motivation higher education by providing books. The Adani Foundation provided transport facilities to students from Std. 6 to 8, studying in nearby villages. Bicycles have been distributed to students who have enrolled for higher education. The Foundation also gave scholarships to the students of ITI, Diploma Engineering and Degree Engineering.



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.



Vidya Deep Yojana

A lot of efforts were put in towards a school preparedness programme by empowering 'Balwadis' at Fisherfolk settlements. Under the Machhimar Vidya Deep Yojana, the Adani Foundation constructed four 'Balwadis', at different settlements, for children between the age group of two and a half years to five years. This programme focuses on the development of basic age-appropriate learning concepts, discipline, regularity, awareness about health, hygiene, cleanliness and also provides nutritious food. **Total beneficiaries of Vidya deep Yojana is 145 students**

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 7801 fishermen were benefitted by Mobile Dispensary every 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 1187 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 263 senior citizens from fisher folk community are enrolled in the scheme.** They are getting cash less medical services uptoRs. 50,000 for three years. Besides this, follow up with the card holders is a regular activity. It has been observed that card holders treat the card as an important document. Most of them keep these cards in their wallets with other important documents and cards.

Machhimar Kaushalya Vardhan Yojana

Apart from formal education, special programmes were conducted to enhance employability of the youth. Based on the need assessment, several trades were introduced by the Adani Skill Development Centre in Mundra, where the youth from the Fisherfolk communities could join and get vocational training for a number of technical and non-technical skills. These vocational trainings are unique as they include practical sessions and simulation activities. **This programme has benefited 94 youths by various training.**



Machhimar Shudhh Jal Yojana

In order to reduce the hardships faced by women, potable water was provided this year to the communities of this region. Water tank platforms have been constructed and tanks have been set up in order to provide clean potable drinking water to the community. **A total of 93000 litres of water was supplied to 728 households from different settlements on a daily basis..**

Machhimar Awas Yojana

Fishermen who stay at vasahat/settlement at the seashore have been provided with appropriate shelter to protect them from the harsh weather. A special design of foldable housing was chosen on the basis of consultation with residents. These shelters are equipped with basic facilities such as toilets and pure drinking water to provide them clean and hygienic residences. **164 refurbished shelters have already been handed over to fishermen families at Juna Bandar. Another 110 shelters, with the additional advantage electricity facilities, are being made at Luni Bandar..**



Sughad Yojana

A total of 230 toilets have been constructed at three Fisherman related Villages at Mandvi Taluka and Randh Bandar. The construction of infrastructure was also accompanied by a continuous awareness campaign on hygiene, sanitation and use of toilets in particular.

Toilet Block		
Sr.	Village & Bandar	Qty
1	Modhva	156
2	Tragadi	6
3	Randh Bandar	8
4	Chachh Zarpura	60
Total		230



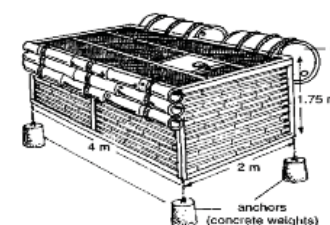
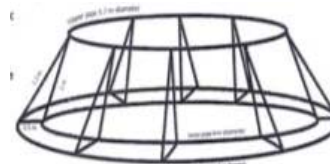
Machhimar Ajivika Uparjan Yojana

The 'Ajivika Uparjan Yojana' was implemented to promote and support alternative livelihoods among the Fisherfolk 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 **3315** man-days. In addition to this, employment worth of **25,000** man-days has been provided till date. The Foundation has also supported **42** Pagadiya fishermen as painting labourers by providing them with employment of **5068** man-days.

Income Generation Activities : Painting Labour work and Mangroves plantation

Name of Fishermen	Year-2015-16	16-Apr	16-May	16-Jun	16-Jul	16-Aug	16-Sep	16-Oct	16-Nov	16-Dec	17-Jan	17-Feb	Apr to Feb Year-16-17 Total	Total Man-days	Order Amount Rs.
Vagher Talab Osman	2969	70	0	278	115	115	200	170	191	150	85	156	1530		3262568
Vagher Abbas Suleman	2961	240	400	268	185	70	168	204	200	200	216	208	2359		3417469
Vagher Mubark Iliyas	1090	150	40	160	232	145	150	110	35	15	80	62	1179		1903536
Total	7020	460	440	706	532	330	518	484	426	365	381	426	5068	12088	8583573

	Man-days											
Sr.	Name of Fishermen	Village	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Total	Order Amount Rs
1	Mubarak Alimamad Vagher	Shekhadiya	167	167							334	100200
2	Abdul Satar Jam	Shekhadiya	167	167							334	100200
3	Ismail Hajibhai Jam	Shekhadiya	167	167							334	100200
4	Sidhik Hasan Reliya	Luni	216	216							432	129600
5	Latif Suleman Manjaliya	Luni	183	183							366	109800
6	Jakab Hasan Manjaliya	Luni	290	270	115	60	60	60	60	60	975	340000
7	Manek Jakariya Suleman	Bhadreswar	292	308							600	180000
	Total		1482	1478	115	60	60	60	60	60	3375	1060000



New Initiatives : Cage culture

Fishing occupation and Port business coexists. When we started port operations, condition of Fisherfolk community was deprived. After inception of CSR arm of Adani Group – Adani Foundation in 1996, strategy was planned based on priorities for socio-economic development of Fisherfolk community. The fishers of the Shekhadia fishing village (Juna Bandar) are one of the stakeholders of the Adani Port Ltd., Mundra. The Company likes to intervene to provide quality livelihood to the fishers especially the women under their CSR funds.

The main objectives for promotion of alternative livelihood is to raise the economic standard of fisher folk, second is to reduce the pressure on fishing effort.

It was reported that about big numbers of fisher folks are willing to change their occupation; therefore, Cage culture aimed to provide alternative employment and encouraging them to shift from full-time to part-time fishing.

The Institute shall provide training to the selected fishers in live lobster handling, seed transportation and quality testing, cage fabrication and deployment, lobster husbandry practices, harvest and marketing etc. with sufficient hands on exposure at the sea cage farm owned by the CMFRI at Veraval. First phase of exposure and cage fabrication is completed. Launching of cage is done in presence of Dr. Koya (CMFRI) in March.

New Initiatives : Polyculture

Polyculture is the practice of culturing more than one species of aquatic organisms in the same unit area (marine, pond, streams and rivers). The principle of Polyculture is that production of more organisms in the particular unit area having different food habits.

The main objectives for promotion of alternative livelihood is to raise the economic standard of fisher folk, second is to reduce the pressure on fishing effort.

It was reported that about big numbers of fisher folks are willing to change their occupation; therefore, Cage culture aimed to provide alternative employment and encouraging them to shift from full-time to part-time fishing.

The activities involved i.e. capacity building, expert inputs, machineries, seeds of fish and fish food. We will identify feasible sites for the Polyculture and implement the activities with participation of fisher folk committees who will take whole responsibilities. These Polyculture will add value to the fishing occupation of the local fisher folk community.



Exposure visit : Fish Research Centre at Okha

The Seaweeds are macrophytes algae, a primitive type of plants lacking true roots, stems and leaves. The word seaweed gives the wrong impression that it is a useless plant. Seaweeds are wonder plants of the sea and highly useful plants. Seaweeds grow in the shallow waters. Root system and conducting tissues like land plants are absent in seaweeds. Most of them have hold-fast for attachment and some drift loose in the sea. Adani Foundation Team (PO:SLD) has visited Okha for the same.

Seaweeds new renewable source of food, energy, chemicals and medicines. Provides valuable source of raw material for industries like health food, medicines, pharmaceuticals, textiles, fertilizers, animal feed etc.



Agriculture & Animal Husbandry

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

Drive for Technology to use in agriculture

- We have initiated Programme for Awareness of Farmers in collaboration with KVK. The outreach is approximate 70 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.
- This year Main Focused Activities

1. Biogas Support to 9 Nos of farmers (AF, Beneficiaries and Govt support)
2. Kitchen Garden Kit distribution to 20 Farmers
3. Soil Health cards analysis : 25
4. Organic farming Related 15 Demonstration for "Jivamrut" at Zarpara
5. 20 Tissue culture Date palm demonstration is successfully done with farmers of Zarpara



Marketing Linkages : Dates

To promote Date : Amrut fal of Kutchh, AF did various linkages for marketing. By this support, **more than 1000 Kg Selling** at Adani Residential Colonies, Ahmedabad and Surat with good rate .



Food for cattle

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 59,224 mann fodder worth Rs. 127.00 Lacs approximately.



Exposure Visits

- 30 Farmers visited and discussed about results of Jivamutra and Kitchen Garden Feedback & "Agri Asia" Agriculture Technology Exhibition
- Animal Hostel visit Himatnagar and Gauchar Development workshop attended by Jayram Rabari and Karsan Gadhavi
- Group of farmers were taken to exposure visit of organic farming and bio gas bottling plant at Vaghodiya. This is totally new concept in agriculture. Organic products are demand of today's period. Bio gas plant is eco friendly and gives very good result



Women Empowerment Projects

Encouraging women, to take control of their lives and building their confidence whether they are single, married or a widow; is one of the initiatives under the sustainable livelihood development program.

- Considering this situation, We have started our training programme with two major women's group of Villages near Adani Power and Adani Ports. Both the groups of women (90 women in total) successfully completed their training for preparing washing powder, phenyl, liquid for cleaning utensils and hand wash etc.
- We have selected 6 women groups having 15 members each, as per their ability for different work i.e. accounting, banking, leadership, marketing, administration etc.
- As a further step to bring sustainability, we thought to start a shop "Saheli Mahila Gruh Udyog" at Shantivan Colony after discussion with the Administrative Department of Ports and Power regarding the supply of the material, rate etc.
- Our pilot project is preparing Washing Powder and Phenyl. We are planning to start Home Made Products after discussion with HOD and Random groups of ladies in colonies and villages.
- **Till date "Saheli Mahila Gruh Udyog" has annual turn over of Rs. 3.70 Lacs.**
- After one year of Pilot phase, Saheli Mahila Gruh Udyog includes 70 women. We are planning to convert "Saheli Mahila Gruh Udyog" into Producer company. Planning for 1. Production of Hygiene Products 2. Edible products and 3. Handicraft items with capacity building of women group



Coordination with Government for Widow and Senior Citizen Scheme

- We are 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 to two persons for the handicapped in coordination with Bhuj Samaj Suraksha Khata for regular visit and follow up.
- **Last year, 63 widows and 40 Senior citizens and 351 handicapped - total 454 members got benefitted** from the approval of pension certificate. The financial benefit of the senior citizen yojana is Rs. 400 per month and the widow scheme is of Rs. 900 per month.



No.	Scheme Name	Total	Remark
1	Medical Certificate for specially abled	136	Under medical camp and G.K. General Hospital, Bhuj
2	Buss pass for specially abled and I card	109	Samaj Suraksha Khata at Bhuj
3	Sadhan Sahay	30	Bicycle 15, Tricycle-9, wheelchair -2, hearing machine -1, lage-1
4	Physiotherapy - Children	10	Coordination with B.R.C and Adani hospital
5	I.G Sadhan Sahay	41	Sewing machine-36, hand cart-3, computer kit 1
6	Sadhan Sahay	23	By Adani foundation
7	Handicap pension	2	Sant surdas Yojana - Samaj suraksha - bhuj
8	Widows pension	63	Mamlatdar Kacheri Mundra
9	Senior Citizens pension	40	Mamlatdar Kacheri Mundra
Total benefits		454	

Beti Vadhavo Abhiyan

Beti Vadhavo programme was organized in 32 Villages in the presence of Village Sarpanch and other leaders. We explained people about the various topics i.e. importance of girl child, Sex Ratio, Gender Equality and laws regarding Child abortion. This initiative was well accepted by community and we have observed a visible change in their mindset. We have facilitated 500 daughters with Kit (Small Bed sheet, Mosquito net, Soap and Cream with nutritious food for mother)



In the present era, improvement in quality of educational services and a sound infrastructure for higher education is required so that the children are prepared to be globally competitive.

Education in its broadest, general sense is the means through which the aims and habits of a group of people lives on from one generation to the next.

Adani Foundation has marked out FOUR major core areas for peripheral Developmental work, amongst them "EDUCATION PROGRAMME" is one of the major areas where we work on following Objectives:

- To fill the gap – understanding the importance & urgency of requirement through Material or Infrastructural Support
- Render support to improved School Environment
- Efforts for 100 % enrollment & retention of eligible children in Govt. Primary Schools
- Provide conducive & healthy environment along with nutritious food to Children of Fisherman at Vasahat by means of Balwadis

Key Focus:

- Efforts to Improve Quality of Education
- Child Education & Nurturing
- Propagate Child Friendly Environment at schools
- Community Participation
- Maximum [100%] enrollment and retention in Schools



Education



Project UDAAN

Udaan is a learning based initiative focused on the youth coming from various schools across the state of Gujarat. Under this project, a two day free of cost exposure tour is organized wherein students are given a chance to visit the Adani Port, Adani Power & Adani Willmar facilities to get an insight upon the large scale business activity carried out at each of them.

Specifically students from high school (9th to 11th grade) are encouraged to take part in the exposure tours. It is believed that students of this age would be able to absorb the learning in a better way which could help them shape their lives by aspiring for big. The spread of the schools extends to various districts in Gujarat. There is a specific effort to reach out to schools in the rural areas. Other than schools even colleges where the exposure visit seems to be helping the curriculum are encouraged.

Till Date Total 2230 Schools and 169953 students have been part of project UDAAN.



Material Support

Adani Foundation is supporting for improving quality of Education, under the Teaching Learning Material to schools for Teachers & Students.

Role on infrastructure is must to achieve quality of Education. Many studies highlight that lack of infrastructure is also affected the school dropout ratio. Good & proper infrastructure is attracting children for school. So A.F. is also trying to full fill need of infrastructure in schools. Where there is no provision of Gov. grant & school's required support A.F. is there. During this period AF provided RO Plant at Tunda Wandh Primary School and constructed Science laboratory at School at Mundra.

In month of February 2017, supported district level annual event Kasturba Gandhi Kanya Vidyalaya. Addition to this Sound system given to Primary Schools at Siracha, Tunda Wandh and Vallabh Vidyalaya. Furniture support to Science School Mundra and Block resource center Mundra

Shala Praveshotsav

To motivate children for schooling by providing them welcome kit / Education kit and to Create conducive environment for children for "Joyful Learning" during Shala Praveshotsav.

Govt. has wide spread network of 111 Govt. Primary Schools in total 61 villages of Mundra Taluka, 3 villages in Anjar Taluka and two villages of Mandvi Taluka. Every Year on an average 2500 to 2700 children gets enrolled in 1st Std. in Taluka. For 2016 - 17 total 2500 children got enrolled & Adani Foundation provided the "Enrollment Kit" to all new enrollee in Taluka. .



Adani Education Development Center

Kutchh District is very poor in case of Primary Education. Educational Standards of Govt. School is considerably depraved. As per Government Figures, among 103 schools of Mundra Taluka, only 10 schools are in "A" Grade. It continuously destroying our young generation in absence of proper direction and base. keeping this situation in view, We have initiated Coaching center at Zarpara. After getting good results (62 students were in D grade now only 4 students are in D grade, 8 students in C Grade, 30 students are in B grade and 20 are reached to A grade) this year we have planned to start at Navinal Village

Adani Vidya Mandir, Bhadreswar

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

In the Year 2015-16, Adani Vidya Mandir became a school having classes from 1st to 10th with total strength of 395 students. Right now 137 students are coming from Fisher folk communities.

Additional Coaching for new enrolled students was structured upto 17th May, 2015. Main objective is to make the new

students cope up with new syllabus. Remedial Teaching has been started for Mathematics and Science subject. In addition to quality education, we focus on overall health, co-curricular activities and sports related events.

The Annual sports Day Celebration was held on January 28, 2017. Shri Sharad Sharma was the special guest for the occasion. It was witnessed by around 150 parents, village leaders and teachers of other government schools.

Also it is privilege to share that farewell was organized for Board going students at Vidya Mandir. Executive director APSEZ and Head AF Mundra remained present and encouraged students and all the teachers of AVMB for tirelessly working with the students to bring them up to this level.



Other activities organized throughout the year

No	village	School's name	Activity	Beneficiaries
1	Jabalpur	Jabalpur Primary school.	Drawing Competition	47
2	Tuna	Tuna Group Primary school	Drawing & Fancy Dresses Comp.	371
3	Zarpara	Pransla (Zarpara) Primary school.	Essay Writing	115
4	Nana Kapaya	Nana Kapaya Primary school.	Quiz Competition	235
5	Gundala, Bhujpur	Gundala, Bhujpur, Mundra High school.	Costal Day Calibration	150
6	Tunda	Tunda Primary school.	Quiz Competition	178
7	Kandagara	Kandagara Wadi Vistar Primary school.	Quiz Competition	45
8	Zarpara, Shekhadia	Zarpara, Shekhadia, Navinal Primary school.	Balotsav Camp	115
9	Luni, Goyarasama, Baroi	Luni, Goyarasama, Baroi school	Elocution Competition	678
10	Zarpra	Zarpara kanya shala	Svachhata Abhiyan Program	57
11	Shekhadiya	Shekhadia Primary School	Svachhata Abhiyan Program	52
12	Mundra	B.Ed. Collage Mundra	Youth Day celebration	89
13	Mota Bhadia	vadi primary school	elocution	162
14	Mota Kandagra	primary school	quiz competition	338
Total :-				2632

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.

Whatever be the budget strategies for Infrastructure development, desired change is possible only if emphasis is laid on participation and leadership of the pupils therein. It is for this reason that Adani Foundation insists on including members of Gram Panchayat as well as thoughtful individuals from the rural areas for the implementation of programme. A remarkable development is the result of the joint efforts of the Adani Group and the Gram Panchayat. For the welfare of the rural area, the Gram Panchayat writes a requisition letter to Adani Foundation according to its primary needs. On the basis of this letter, several requisitions are registered in the "Request register". According to this registration, the programme is being implemented under the permission and guidance of the Gram Panchayat through appropriate decision-making.

It is important to build new structures. It is equally important to maintain these with ease and regularity. Adani Foundation has designed, planned and built a strong infrastructure for the betterment of education, community health, agriculture and living standards.

Under this core area, the Projects undertaken including construction of various infrastructures in villages as per requirements.



- **Water Conservation Projects:** Scarcity of potable water in Kutch has led to acute problems in its coastal region. In Mundra, people mostly use ground water for drinking. Unfortunately this water has a high level of TDS which causes bone and kidney diseases. To alleviate this situation, the Adani Foundation has taken initiatives for water conservation including construction of check dams and pond deepening
- **This year Adani foundation carried out pond deepening in Dhrub, Mota Bhadiya Village and constructed earthen bund construction across the river at Baroi and Bhujpur village.**



- **Drinking Water Related Projects:** Potable drinking water is basic requirement of any village. For better health and hygiene of village drinking water should be clean and pure. So, this project will create positive and effective social impact. **Adani Foundation has installed RO Plant at Chhach Vistar at Zarpara. Also constructed UG tank 1.0 lacs lit capacity at Rampar village of Anjar Taluka.**

- **Education Related Projects:** Education is the most powerful weapon which you can use to change the world." To improve the quality of education and to improve school environment, the Adani Foundation supports for infrastructure development on request basis. Adani Foundation carries out the construction of assembly hall, classrooms, computer labs, space for midday meal, playground, school walls, washrooms etc. as per the needs and preferences of the school. It is aimed at providing facilities in education sector to the present generation.

- **We have constructed Science laboratory at Govt Science School at Mundra. We have repaired toilets and kitchen at Adani Vidya Mandir at Bhadreswar.**



- **Health Related Projects:** The proposed work was related to our major core area – health. Adani Foundation has constructed individual toilets at Juna Madhapar, Dinara and Varnora village at Bhuj as per request from District collector. Also constructed 230 individual toilets for Fisherman Vasahats.



Other Projects: Some Projects we took up to fulfill the demands of communities. We have completed Canal connecting pond and river at Bhujpur, Shed Construction at Gundala, Construction of approach road at vadi Vistar at Zarpara.

- **Fisherman Related Projects:** The primary objective of Adani Foundation is the development of the marginalized section of the region. The welfare of the Fisher Folk Community is of prime importance. In order to raise the standard of living of the fisherman community, Adani Foundation is active in providing good roads to reach ports and other remote corners

- Adani Foundation has also constructed platforms for drinking water, solar light, space for drying fish, etc. The construction of temporary residence of fishermen in order to provide them healthy lifestyle is being looked under the Fisherman Housing Programme by the Adani Foundation. In 2015-16, Adani Foundation constructed 2300 Mtr approach road for Pagadiya fisherman. We have refurbished 140 shelters at Juna Bandar.



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. Considering the same, Adani Skill Development Centre has initialized in the 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 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.
- Due to social and cultural traditions, various training programme are organized at school OR village level for youth and women so that they can gain its benefits in the future as well.
- Adani Skill Development Centre provides opportunities to the young people to become self-reliant, responsible and active citizens



ASDC is proud that along with generating employment, it has also been a source of inspiration for entrepreneurship.

Vision:

To systematize the skill development efforts in the Nation and create an environment where youth and women not only get some vocational training but also gets some gainful employment, entrepreneurship and self-respect.

Objective:

- Bridge the wide gap in demand & supply of human power.
- Awareness regarding availability, needs and vision for career development and education.
- Facilitation, spreading awareness, creating new opportunity to upgrade skills through organizing various skill trainings in the region.
- To improve overall status of rural Youth and women in the society by enhancing confidence and entrepreneurship in them.

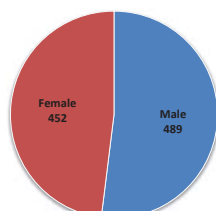
- Encouraging youth for participatory approach in social and economic activity and helping them to keep away from addictions, to become self-dependent, and empower them to live a dignified life.

- To build a feeling of harmony in the society by creating a rapport of goodwill, mutual trust and respect.

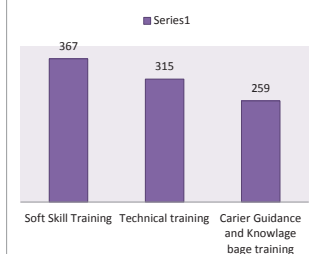
Skill development trainings administered by ASDC

Each training module of ASDC is well-designed to make the learning more effective.

Total trained of Male & Female



Total 941 students trained



Skill development trainings administered by ASDC

Each training module of ASDC is well-designed to make the learning more effective. Hands on experiment are the key factor to enhance learning in all the courses offered by ASDC.

IT- Basic Computer

Word, Excel, Power Point, Internet, Web Browser detail

Tally ERP 9

Basic Accounts, Voucher Entry, Ledgers, Group Creation, VAT, TDS, Service tax, Excise etc. is taught for 60 days to benefit students of class XII and above having commerce background.

Spoken English

Grammar, Tenses, Vowels, Articles, Prepositions, Phonetics, Tenses, Communication Skills etc. are offered especially for students and working people. This course duration is of 60 days.

Auto mobile Assistance

Training is regarding Units and Dimensions, Measuring & Marketing (Preparation of jobs for welding, Dismantling and assembly of components), Inspection, Preventive Mtc. And repair of bearing, gearbox, couplings, and TPM, Condition Monitoring, Kaizen. All the trainings are offered at either ASDC centre, at Port, at Power plant, at specific

villages depending on the need of the module and the students. Certificate for each course is given by ASDC or by partner institute.

O&M of Coal Handling System at Ports

This module includes Induction at Port + First Aid + Safety training, GSU (Grab Ship unloaded) Crane Theory training, GSU Crane Simulator training, Commercial Documentation O & M of coal handling Activities Stacker Reclaimer Theory training, Silo Theory Training, Conveyor Theory Training, On Job Training conveyor.

Checker cum RTG Crane Operator

Students get training regarding Safe Operating Practices, RTG Controls and Functions, Pre-Operational and Operational Checks, Driving, Hoisting and Lowering Loads, Operations - Transferring Loads for three months.

Mechanical & Electrical work of Container Terminal

It includes training of Crane Operation & maintenance for two months and minimum qualification is ITI Fitter & Electrical

Stitching & Bagging Machine Operator

It includes Stitching and bagging operation in FCC 7 plant. It is for 1 Month and min. qualification required is 10 Pass.

Checker

Students gets basic Induction on (Safety, Fire,

First Aid, Security, CT), Export Import procedures, Identification of containers, Container construction, Hazardous classification & Symbols, Role of yard checker, Role of deck checker, Role of Wharf checker, Bay Plan, Awareness of RDT, Custom Seal.

Forklift operator training

Forklifts are an incredibly useful tool, and in many cases are absolutely essential for the transport of goods in storage facilities, warehouses and construction sites. They tend to be fairly simple to operate, especially for people who can drive a car, and they help to lift loads that other readily accessible workplace machine cannot. They are therefore extremely common in a lot of different industries.



Adani Skill Development Centre, Mundra

Course wise status, 1st April 2016 to 31st March 2017

Sr. No.	Course Name	Location	Male	Female	No of students
1	IT Basic Computer	ASDC Mundra	10	1	11
2	IT Basic Computer	ASDC Mundra	6	3	9
3	Tally Erp9.	ASDC Mundra	4	2	6
4	IT Basic Computer	ASDC Mundra	2	2	4
5	Vocation Training	Zarpara High School	59	36	95
6	Basic Computer-RTG student	ASDC Mundra	16	0	16
7	Basic Computer-RTG student	ASDC Mundra	8	0	8
8	IT Basic Computer	AVMB	33	6	39
9	IT-Basic Computer	Adani House	18	0	18
10	Mehnadi work	Gundala	0	21	21
11	Mehnadi work	Gundala	0	17	17
12	Dori work training	Gundala	0	20	20
13	Dori work training	Gundala	0	19	19
14	IT Basic computer-RTG Student	ASDC	8	0	8
15	IT Basic computer-RTG Student	ASDC	7	0	7
16	IT Basic computer-RTG Student	ASDC	8	0	8
17	IT Basic computer	Luni Bandar	14	0	14
18	IT Basic computer	Luni Bandar	6	9	15
19	IT Basic computer	ASDC	6	1	7
20	IT-Basic Computer	Adani House	25	0	25
	Total - A		230	137	367

Other Training					
Sr. No.	Course Name	Location	Male	Female	No of students
1	Mobile Repairing	ASDC Mundra	12	0	12
2	Stitching & Bagging Machine Operator	APSEZ	7	0	7
3	Beauty Parlour	Nana Kapaya	0	24	24
4	Beauty Parlour	ASDC Mundra	0	21	21
5	Checker Cum RTG Crane Operator	APSEZ	14	0	14
6	Tailoring	ASDC Mundra	0	18	18
7	Tailoring	ASDC Mundra	0	13	13
8	Beauty Parlour	Mundra	0	20	20
9	Mechanical & Electrical training of Container Terminal	APSEZ	6	0	6
10	Tailoring	ASDC	0	20	20
11	Forklift operator training	MSPVL	8	0	8
12	Checker Cum RTG Crane Operator	APSEZ	23	0	23
13	Tailoring	Old port	0	15	15
14	Tailoring	Old port	0	15	15
15	Beauti Parlour	MICT	0	23	23
16	Forklift operator training	MSPVL	14	0	14
17	Tailoring	Bhorara	0	15	15
18	Tailoring	Bhorara	0	17	17
19	Tailoring	Zarapara-Chach wadi	0	15	15
20	Tailoring	Zarapara-Chach wadi	0	15	15
		Total - B	84	231	315

"Swachhh Bharat" Movement

Adani Vidya Mandir gives momentum to "Swachhh Bharat" movement at Bhadreshwar in coordination with government schools of Bhadreshwar. Total 450 Students participated in drive. Several activities were carried out during the day that marked the uniqueness of this drive. Shri Mukesh Saxena, (Head CSR) specially remained present on the occasion to motivate and participate in this event. He shared that a cleanliness drive was initiated by the Adani Vidya Mandir at Bhadreshwar, Mundra. Having a clean and hygienic living environment is utmost important for health and profession, but providing for the same is equally challenging.



Model Making Competition Certification

We had organized Model Making Competition among Technical Students of Kutchh District in Aug 2014. Three Winners of the Competition constructed replica of their model at Nana Kapaya, Baroi and Gundala Village under guidance of Engineers Team of Adani Foundation Which will be used as Medical Center at Gundala and Nana Kapaya and residence for poorest of poor at Baroi Village. Launching of Booklet of process documentation and Certification of Students organized on 9th July 2016



Support to Blind Girls from AKPG

Adani Foundation Mundra Supported blinded girls of Andh Kanya Prakash Gruh by purchasing rakhis made by them. Fisherman leader of Navinal Anwar bhai created best example of Hindu Muslim unity by tying Rakhi from differently abled girls from Andh Kanya Prakash Gruh, Ahmedabad. Not only that, They gave donation to institute... This shows binding of our team so deeply and socially with fisherman community...



Important Events



SEA OF CHANGE : A JOURNEY OF TRANSFORMATION OF FISHERFOLK

Adani Foundation Mundra Team has transcribed about Life of Fisherman and its transformation. The Book was launched by Shri Gautam Adani and appreciated by all dignitaries.



"Panjo Medavo"

Adani Foundation Mundra has organized "Panjo Medavo" Programme on 27th Aug 2016 Saturday Evening. Total 170 local people including Sarpanch, village leaders and NGO working for welfare of community including media.

Mr. Mukesh Saxena, CSR head Adani Foundation shared that development of business is only possible with whole hearted support of local community. He gave confirmation that Adani foundation team is for community and will remain always !! Main attraction of the event was Kutchhi folk music by "Suvani - the traditional artist support group" of Kutch.

International Coastal Clean up Day

The International Coastal Clean-up is one of the largest volunteer efforts in the world dedicated to the health of our oceans. Every year, 20th September is dedicated to this noble cause of cleaning our beaches / shorelines impounded with lots of waste material which is considered non-biodegradable in nature and considered hazardous to the ocean health. Indian Coast Guard had been associated with this international event in India and has been organizing clean-up drive for our beaches once in a year to represent its concern for the overall ocean health and generating awareness among public. Coast Guard Authority being in Mundra would be organizing a clean-up operation in coordination with Adani Foundation. Adani Foundation gives momentum to "Swachh Bharat" movement at Juna Bandar, Mundra with Fisher folk community.

Adani Premiere League

Adani Foundation, Mundra organized Cricket Tournament, **"Adani Premiere League"** among fishermen community to promote healthy sportsmanship and harmonically transparent community relationship among fisher folk of Mundra and Anjar Taluka from 13.07.2015 to 23.07.2015. The Adani Premiere League by Adani Foundation started on 13.07.2016 at Shantivan Colony Cricket Ground. Total 44 Teams of 12 villages and 528 Fisherman participated. Teams from Villages Zarpara, Navinal, Shekhadia, Modhava, Salaya, Mundra, Tragadi, Luni, Sanghad, Gundiyali, Bhadreshwar & Vandi (Tuna) participated with great enthusiasm.



Safety awareness for fisherman

Safety awareness program for fisherman community was organized on 16th Sep 2016 in coordination with Indian coast guard, Air force and Fisheries department. Commandant Pradip Kumar did live demo for using different equipment like boya, ring and life jackets for safety purpose. Mr. Mukesh Saxena had given information about coastal safety and measures



Community Speaks...

"ADANI VIDYA MANDIR HAS CARVED OUR FUTURE !!!"

In the Mundra Taluka of Kutch district there is a village named Bhadreshwar. The population of this village is approx. 9000 to 9500. Wherein resides the people of different castes like Darbar, Harijan, Vagher, Bhrahmin, Lohana, Darzi and Jains. These people find an occupation in the nearby companies and others continue their ancestral occupation and get an income. The community like Vagher and Manek are included in the activities of fishing. Fishing is their only means of finding Remuneration. Hence they are known as Sagar khedu. For their survival they completely sustain on these. The lives of the fishermen are full of valour. But the level of education is very low. They go fishing for 8 months. There is stagnancy in work during the rainy season. During those seasons they celebrate all their cultural festivities. With an aim that the children from the fisher folk community move forward in the field of education,

Adani Foundation encourages them by various means. As a result the children form the fishermen community and the nearby locations are admitting to the Adani Vidhyamandir School in Bhadreshwar. Here the children receive quality education and nutritious food. In this school the underprivileged children from the nearby villages also gain education. With the progress in the field of education there is also a change observed amongst the fishermen families. The younger generation is also ready to leave their family occupation of fishing and progress in the field of education. Similar is the case of Haji Mohamad Sale.

He was disinterested in studying. He was very irregular, would not concentrate in class. He completed Std 7 with difficulty continuing the fishing lifestyle along with schooling. In this phase the Adani Foundation boosted his confidence by frequently visiting and with proper guidance he was admitted in the Adani Vidhyamandir, Bhadreshwar.

When they started he was very weak in Reading, writing and mathematics. Moreover he could not communicate with the co-students. In this phase they obtained education from the Adani Vidya Mandir. After receiving personal attention from the teachers he started improving gradually. Presently He is studying in class 9 and participating in all the extra curriculum activities. After having a talk with him we realized that he is having future plans too. Haji replied that he wants to be a soldier when he grows up. For which he runs, does physical activities and is always mentally prepared for any sports activities. He realized the strengths only after getting educated.

Today the importance of education has increased in the fisher folk community. Moreover the parents are also equally realizing the importance. Those who were not interested in Primary education are taking further education. Hence the fishermen communities are thankful to Adani Foundation for making these changes possible



SAMANVAY

Samanvay - A Seminar was organized to define social responsibility with the perspective of Development on September 20, 2016 at Adani House, Auditorium, Port road, Mundra, Kutch.

More than 35 Organizations namely Agakhan Rural Support Programme, Kutchh Navnirman Abhiyan, Vivekanand Research & Training Institute (VRTI), Navchetan Andhjan Mandal, Welspun Limited, Coastal Gujarat Power Limited, Ashapura group of industries, Sarv Seva Sangh, Kutch Mahila Vikas Sangathan (KMVS), Arid Community & Technology, SETU, Sahjeevan Trust, Veerayatan and Yusuf Meher Ali Centre (YMC) etc. took part in this Seminar. All NGO and Corporate shared their view for development from one common platform and impactful Work. The Chief Guest: Shri Apurva Oza (CEO, Agakhan Rural Support Programme) and other Distinguished guests were:

Mr. Lalji Prajapati, Navchetan Andhajan Mandal
Shri Lalbhai Rambhiya, Head CSR AARTI Group of Industries
Shri Ramesh Gor, Coordinator, Vivekanand Research & Training Institute
Smt. Raginiben Vyas (Head-CSR, Ashapura group of Industries)
Dr. Punam Gupta (Welspun Limited)
Smt. Lataben Sachdev, KMVS
Shri Pradip Ghosal (Head - CSR, CGPL)
Dr. Yogesh Jadeja, Arid Community & Technology
Shri Dharmendra Kumar, Director, YMC
Shri Jadavjibhai Shethia, from Sarva Seva Sangh



CSR Conclave : Adani Foundation

Adani foundation CSR Conclave- II was held on 14th and 15th October 2016 at AMDC, Ahmedabad. Sh. P.N. Roy Chowdhury briefed the participants regarding the CSR conclave and substantiated few activities being carried out at various sites of AF. He said that mature sites should start transformative CSR rather than demand based CSR.

Dr. Malay Mahadevia underlined the need for adding sensitivity in all CSR activities and Business we do. He further highlighted that through our CSR efforts, we are transforming to be a responsible corporate.

Dr. Pritiben G. Adani shared the vision of Adani Foundation. She shared about sustainable CSR linked with Business. Respected A Nath Sir was felicitated by long service award. All eleven CSR Sites from various places of India shared that startvision for five years. Mr. Ennarasu (CEO, APSEZ) shared the strategies for designing long term vision. Mr. Mukesh Saxena (COO, SEZ Operations) and Head (CSR-AF Mundra) had presented Startvision for Mundra and Tuna CSR Projects.



Singing Sea Bird : Balvadi at Bandar

The Girl named Amina is 3 years old. She lives at Zarpara Bandar with her Family. She was living in unhygienic and unhealthy condition. Due to this condition she used to fall sick frequently. After joining Balvadi, she learned the importance of hygiene and started to remain clean. By nutritious food given in Adani Balvadi, she could keep herself healthy. Moreover, she learned to speak English Alphabets and now she sings poems and songs with full enthusiasm.

Her parents expressed their gratitude to foundation in the words "Adani e duniya dikri ni jindagi sudhari didhi".

Senior Citizen Scheme is blessing !

Ameena ben, a resident of Shekhadia Village, never ever thought of that in spite of having three sons she will have to lead a life of desertion. None of them had time to look after her and she was suffering from high blood pressure and stomach problems. She was worried about increasing health problems due to old age. During Senior Citizen health camp organized in her village she came to know about this facility. Adani Foundation arranged for critical drugs through senior citizen scheme. Due to regular intervention with Adani hospital she is now absolutely fine and living gracious life with smile.

She always says with gratitude: "Adani hospital provides very good service with lots of care and love. Thanks to Adani for giving me new life with self-respect.



"I AM SPECIALLY BLESSED NOT DISABLED!!!"

Myself Naresh Maheshwari 13 years old boy resident of village Baroi, 3 Kms Distant from Mundra. I am physically disabled since birth. My parents are working as a Labour and can not take me for treatment or physiotherapy. My panchayat leader got news that for disable children physiotherapy treatment is available at Adani hospital. I started for the same and got very good results after regular treatment and exercises suggested by orthopedic doctor and physiotherapist . Now I can walk with help of stick, I am really thankful to Adani foundation for great help.

Healthcare at Door step!

Recently our primary health services are availed to 29 villages through the medium of mobile medical van. As many as 121 types of medicines are available in it. These services are liked by the people on a large scale. It has turned out like a boon for women and children as the service is availed at door - step. Borhara is a village approximately 20 km away from Mundra wherein resides **Krishna Maheshwari** who was financially, health-wise and socially unstable until she availed help from AF at Mundra. She settled in Borhara 5 years ago when she got married. she suffered from Abscess and Skin disease. Our Medical officer of Mobile Health Care Unit helped her a lot. He regularly went her home to change bandages and for dressing of abscess. Now she is completely alright and able to move and walk. Her blessings to Adani Foundation in her worlds " *Due to Adani Foundation Medical Van I got fast relief, Doctor take care like my own family member"*



Appreciations Letters



Visitors

- Mr. Michael Stephen, Mr. David Moor & Ms. Allison Joyce, Journalist Team from Australia along with MR. Jeyakumar Janakaraj (CEO Australia Port) visited Juna bandar for Adani Foundation Activity & Discussion with Fisher folk Group.
- Visit of Mr. Naren Karunakaran–The Economics Times on 28th June, 2016-visited Luni bandar and discussed with local fisherman about Mangrove plantation work at Luni site. He also visited Juna bandar & Discussed with Fisher folk Group for activities of CSR by Adani Foundation.
- Visit of Mr. Sudhakar B.- Head HR Energy Business- visited at Junabandar for Adani Foundation Activity & dissuasion with Fisher folk Group.
- Visit of auditors of OeB Bank for review of CSR Activities at Juna Bandar. Presentation and information sharing was arranged at Adani House.



[illegible]

Adani Foundation, Mundra CSR Budget Utilization 2016-17					
Sr. No.	Program	Budget 2016-17	Expenditure	Expenditure	Total Expenditure
			Apr.16 to Sept.16	Oct.16 to Mar.17	2016-17
A.	Admin Expense	136.44	62.54	60.76	123.30
B.	Education				
(i)	Education Initiative	49.40	12.28	29.22	41.50
(ii)	Adani Vidya Mandir-Bhadreshwar	125.78	46.19	59.24	105.43
(iii)	Shanti Vihar (Project Udaan)	303.26	109.53	186.63	296.16
	Sub Total	478.44	168.00	275.09	443.09
C.	Community Health	271.18	62.37	181.01	243.38
D.	Sustainable Livelihood Development	240.90	117.97	102.01	219.98
E.	Rural Infrastructure Development	408.24	105.30	285.78	391.08
GRAND TOTAL		1535.20	516.18	904.65	1420.83

ANNEXURE – 12



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref.No.: 366/02/2016-17

Date:31/03/2017

REPORT OF EFFLUENT WATER SAMPLES

Name of Company : Ahlstrom Fibercomposites India Pvt. Ltd.

Address: Mundra SEZ Integrated Textile & Apparrle Park,
(MITAP), Plot No. - 07
Survey No. -141, Mundra,
Kutch-370421

Date of Sampling : 25/03/2017

Source of Sample : ETP-Collection Tank

Sr. No.	Parameters	Unit	Inlet Limit for CETP	ETP- Collection Tank
01.	Suspended Solids	mg/l	800	132
02.	Oil & Grease	mg/l	120	3.5
03.	Fluorides	mg/l	12.0	0.70
04.	Sulphide	mg/l	2.0	N.D
05.	Ammnonical Nitrogen	mg/l	50	3.6
06.	BOD (3 days for 27°C)	mg/l	1000	68
07.	COD	mg/l	2000	235
08.	TDS	mg/l	2100	896

Royal Environment Auditing & Consultancy Service



Analyst
Analyst

ANNEXURE – 13



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

Manifest No:
517222
11/03/2017

Copy 6

To be returned by the Operator of the facility to the Occupier after treatment and disposal of hazardous material/waste.

1	Occupier's Name & Mailing Address: Registration No: 28203	10605 - Mpsez Utilities Pvt. Ltd.(Mupl) 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 Gide
2	Transporter's Name & Address :	Sep Logistic, Gandhidham Ph: 02836231643
3	Transporter's Registration No :	H-49542
4	Vehicle No & Type :	GJ12AT9417 - TRUCK
5	Designated Facility Name & Site Add:	Bhachau-Saurashtra Enviro Projects Pvt. Ltd
6	Facility's Reg No with PCB :	[t. Lt]
7	Waste Type :	Land Filling Waste
8	Waste Description & Codes :	35.3
9	Total Quantity :	13.670 Metric Tonne Containers: 0
10	Consistency :	Solid

11 **Waste Description :** CETP Sludge for disposal at SEPPL, Bhachau

12 **Occupier's Certificate :** 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: 11/03/2017

Signature

N.P. Rathod

13 **Transporter Acknowledgement of Receipt of Wastes**

Stamp of: Sep Logistic

Date : 11/03/2017 0:00

Signature

14 **Discrepancy Note Space**

15 **Facility Owner or Operator's Certification of Receipt of Hazardous Waste**

Stamp of: Bhachau-Saurashtra Enviro Projects Pvt. Ltd



Date : 14 MAR 2017





Signature



Sr	Quantity	Hazardous Waste Type
1	13.670	35.3 - Chemical sludge from waste water treatment




ANNEXURE – 14


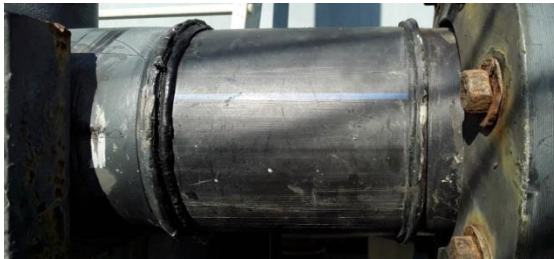


	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		


MIS - MPSEZ - SEZ AREA							
Sr. No.	Date & Time	Location	Type of incident/Activity	Brief Description	Action Taken	Remarks	Photographs
MUPL - CETP							
1	9th Oct-16 (Sunday)	Equalization pump house	pump no.1 stopped	due to spider L-100 between lovejoy couple was broken.	New Spider L-100 replaced.	-	
2		Equalization pump house	pump no.2 was not working properly	due to NRV chockup.	NRV cleaning work done and new gland packing cover fitted.	-	

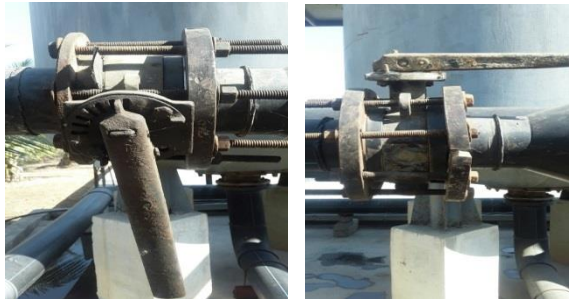
		MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)				From : Oct,16 To : March,17	
Status of the conditions stipulated in Environment Clearance							
3	17th Oct-16 (Monday)	Final Outlet line	Line leakages	110 mm HDPE line leakage near stubend	Line repaired from joint by mirror	work done	
4	27th Oct-16 (Thursday)	Equalization pump house	hdpe line leakage	110 mm hdpe line leakage from joint after eq. 2 tank valve to suction line	Joint repaired by mirror	-	
5	2nd Oct-16 (Wednesday)	MGF-1	Preventive maintainance	Greasing required in valves.	Greasing done.	-	-
6	o8th Nov-16 (Tuesday)	Sludge Thickner pump house	Preventive Maintenance	service required of all 3 screw pumps for sludge transfer to sludge drying bed	service done	pumps are working properly	

		MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)				From : Oct,16 To : March,17	
Status of the conditions stipulated in Environment Clearance							
7	18th Nov-16(Friday)	Chemical Dosing House	Poly Dosing Pump No.1 stopped	due to liquid end plate broken	new liquid end plate installed.	pump working ok.	
8	7th Dec-16 (Wednesday)	Chemical Dosing House	Poly dosing pump no.1 stopped	due to impurities pump stopped	PVC pipeline cleaned and pump also cleaned	pump working ok	
9		Secondary Clarifier-2	scraper mechanism stopped	due to rubber coating of one of tyre of paddle scraper broken	another rubber coated tyre from sec clf-1 replaced with sec clf-2 tyre	sec clf-2 scraper mechanism working ok	

		MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)				From : Oct,16 To : March,17	
Status of the conditions stipulated in Environment Clearance							
10	8th Dec-16 (Thursday)	Primary Sludge drain chamber	agitator not working properly	due to taper rolling bearings are damaged	new taper rolling bearings - 2 Nos installed in agitator gearbox.	working ok.	
11	12th Dec-16 (Monday)	WTP	Fresh water line leakage	63mm HDPE line leakage from joint and 50mm B/F valve not worked.	Joint repaired by mirror and new valve of same size replaced.	Before line leakage: 17330 After line repaired : 17383	

		MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)				From : Oct,16	
						To : March,17	
Status of the conditions stipulated in Environment Clearance							
12	15th Dec-16(Thursday)	Final Outlet	HDPE line leakage	225mm HDPE line leakage from joint.	Joint repaired by mirror.	Line is ok.	
13	16th Jan-17 (Monday)	Equalization Pump house	HDPE Line leakage	Suction line of Eq. tank no.2 was leakage from joint	Joint repaired by mirror	-	
14	5th Feb-17 (Sunday)	MGF-ACF	Flange broken	Flange broken	110mm Flange replaced	110mm-2 nos flanges replaced	

	MPSEZ Utilities Pvt. Ltd., Mundra. (CETP)	From : Oct,16 To : March,17
Status of the conditions stipulated in Environment Clearance		

15	6th Feb-17 (Monday)	MGF-ACF	Flange broken	Flange broken	110mm Flange replaced	110 mm -4 nos flanges replaced	
16	9th Feb-17 (Thursday)	ACF	Line leakage	Line leakage and valve pass leakage	80mm valve changed, flange changed.	-	