

APSEZ/EnvCell/2018-19/012

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 "Township and area

development project" at Survey no. 141 (part), village: Mundra, Dist. Kutch, by M/s. Adani

Date: 16.05.2018

Mundra SEZ Infrastructure Pvt. Ltd."

Ref : Environment clearance granted to Adani Mundra SEZ Infrastructure Pvt. Ltd. vide letter

dated 20th February, 2010 bearing SEIAA letter no. SEIAA/GUJ/EC/8(b)/44/2010.

Dear Sir,

Please refer to the above cited reference for the said subject matter. In connection to the same, it is to state that copy of the compliance report for the Environmental Clearance for the period of October – 2017 to March - 2018 is enclosed here for your records. The stated information is also provided in form of a CD (soft copy).

Thank you,

Yours Faithfully,

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

Avinash Rai Chief Executive Officer Mundra & Tuna Port

Encl: As above

Copy to:

- 1) 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



Environmental Clearance Compliance Report of



Township and
Area Development Project,
Village: Mundra, Dist. Kutch, Gujarat

Of
Adani Mundra SEZ Infrastructure Pvt. Limited

for the period of October-2017 to March-2018



From : Oct,17 To : March,18

Status of the conditions stipulated in Environment Clearance

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Compliance Report of Environment Clearance



From : Oct'17 To : Mar'18

Status of the conditions stipulated in Environment Clearance

Half yearly Compliance report for Environment Clearance for the project "Township and area development project at Mundra, Dist. Kachchh, Gujarat of M/s. Adani Mundra SEZ Infrastructure Pvt. Ltd." issued vide letter no. SEIAA/GUJ/EC/8(b)/44/2010 dated 20th February 2010.

Sr. No.	Conditions	Compliance Status as on 31-03-2018
A. S _I	pecific Conditions	
A.1	Construction Phase:	
1.	Minimum Aerial distance of 100 m shall be kept between processing & non – processing areas of SEZ, as proposed.	Complied during the construction phase. Not applicable at present. The details of the compliances with respect to construction phase are submitted in Oct 16 to March 17 compliance report.
2.	Height of the buildings in the project shall be restricted to 42 meter (in view of the height restriction specified by the aviation authority) or the height permissible under the bylaws prescribed the SEZ authority, whichever is more stringent. This, however, shall not increase the total population envisaged under the EIA report prepared and submitted to SEAC and SEIAA and shall not increase in the resource consumption like total water usage or wastes generated.	Construction work for the project is partially completed. However, no construction activity carried out during the compliance period of Oct'17 to Mar'18. All the specific conditions provided for construction phase will be considered upon recommencement of construction activity in future.
2(a) 2(b)	The requirement for fire prevention, line safety in relation to fire and fire protection of the building shall be fulfilled in the project, as per the National Building Code of India so as to minimize danger to life and property from fire. All high rise buildings shall have at least two staircases with a condition that the nearest staircases shall be available at every 30 meter from all places in a given building.	



From : Oct'17 To : Mar'18

Ca		Compliance Status as an			
Sr. No.	Conditions	Compliance Status as on 31-03-2018			
3.	The project proponent shall not obstruct the flow of river Bhukhi passing through the social infrastructure area and shall not do any encroachment on the said river, as per their undertaking	Complied during the construction phase. Not applicable at present. The details of the compliances with respect to construction phase are submitted in Oct 16 to March 17 compliance report. Construction work for the project is partially			
	dated 21/07/2009. All necessary precautions and measures shall be taken in order to ensure that natural drainage of river Bhukhi passing through the project site is not altered / affected.	completed. However, no construction activity carried out during the compliance period of Oct'17 to Mar'18. All the specific conditions provided for construction phase will be considered upon recommencement of construction activity in future.			
4.	Additional bridge / walkthrough over the Bhukhi river passing through the site shall be provided between the two bridges planned to be provided so as to reduce distance to be travelled during the emergency situations.				
5.	If SEZ authority permits, adequate parapet / fencing shall be provided along the banks of river Bhukhi passing through the site for preventing fall of animals / humans.				
6.	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.				
7.	The construction site shall be provided with adequately barricades of at least 3 m height on its periphery with adequate signage				
8.	Adequate first aid facilities shall be provided in the project both during construction and operation of the project.				
9.	Adequate drinking water, sanitation and other amenities				



From : Oct'17 To : Mar'18

Sr. No.	Conditions	Compliance Status as on 31-03-2018
	shall be provided for construction workers at the site. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	
10.	Provision should be made for the supply of fuel (Kerosene or cooking gas), utensils such as pressure cookers etc. to the laborers during construction phase.	Complied during the construction phase. Not applicable at present. The details of the compliances with respect to construction phase are submitted in Oct 16 to March 17 compliance report. Construction work for the project is partially
11.	The project proponent shall ensure that the construction labours are provided with adequate amenities for lighting, drinking water, sanitation etc. to ensure that do not ruin the existing environmental condition.	completed. However, no construction activity carried out during the compliance period of Oct'17 to Mar'18 All the specific conditions provided for construction phase will be considered upon recommencement of construction activity in future.
12.	Adequate personal protective equipments shall be provided to the construction workers to ensure their safety and the project proponent shall ensure its usage by the labours.	
13.	All topsoil excavated during construction activities should be stored separately for use in horticultural / landscape development within the project site.	
14.	Disposal of debris including the excavated material during construction phase shall not create adverse effect on neighbouring communities and shall be disposed of only at the approved sites with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Use of diesel generator sets	



From : Oct'17 To : Mar'18

Sr. No.	Conditions	Compliance Status as on 31-03-2018
	during construction phase	5 7 5 2 5 7 5
	should be enclosed type and	
	confirm to EPA rules for air and	
16.	noise emission standards. Ready-made mix concrete should	Complied during the construction phase. Not
10.	be used so far as possible	applicable at present. The details of the compliances
17.	Water demand during	with respect to construction phase are submitted in
	construction should be reduced	Oct 16 to March 17 compliance report.
	by use of curing agents,	Construction words for the project is posticilly
	plasticizers and other best practices.	Construction work for the project is partially completed. However, no construction activity carried
18.	Vehicles hired for bringing	out during the compliance period of Oct'17 to Mar'18.
10.	construction material at site	g and comprehense period or cooking to the
	should be in good conditions and	All the specific conditions provided for construction
	confirm to applicable air and	phase will be considered upon recommencement of
	noise emission standards and	construction activity in future.
	should be operated only during non-peak hours.	
19.	Ambient noise levels shall	
1.5.	conform to residential standards	
	both during day and night.	
	Incremental pollution load on the	
	ambient air and noise quality	
	should be closely monitored during construction phase.	
20.	Fixtures for showers, toilet,	
	flushing and drinking should be	
	of low flow either by use of	
	aerator or pressure reducing	
21	devices or sensor based control.	
21.	Fly ash should be used as building material in the	
	construction as per provision of	
	Fly Ash Notification under EPA.	
22.	Structural design aspects in	
	accordance to the seismic zone	
27	shall be strictly adhered to.	
23.	No ground water shall be used and the water required during	
	construction phase shall be	
	sourced from Gujarat Water	
	Infrastructure Ltd.	
24.	The construction materials and	
	debris shall be properly stored	



From : Oct'17 To : Mar'18

Sr. No.	Conditions	Compliance Status as on 31-03-2018
	and handled to avoid negative impacts such as air pollution and public nuisances by blocking the roads and public passages. Appropriate barricading shall be done and signboards shall be put at such site.	
25.	Ambient Air Quality Monitoring / Noise monitoring shall be carried out during the construction. The location of ambient air quality monitoring stations and its frequency shall be decided in consultation with GPCB.	Complied during the construction phase. Not applicable at present. The details of the compliances with respect to construction phase are submitted in Oct 16 to March 17 compliance report. Construction work for the project is partially completed. However, no construction activity carried
26.	The provisions of the buildings and other construction workers rules shall be met with by the project proponent in addition to other statutory requirements under different environmental pollution control and safety related acts and rules.	out during the compliance period of Oct'17 to Mar'18 All the specific conditions provided for construction phase will be considered upon recommencement of construction activity in future.
27.	Environment Management Cell shall be formed, which will supervise and monitor the environment related aspects of the project during construction and operational phases in addition to observance of Gujarat Building and other constructions workers act and rules including registration of the project under this act.	
A.2	Operation Phase:	
28.	Fresh water requirement during the operation phase shall not exceed 9 MLD and it shall be sourced from Gujarat Water Infrastructure Ltd. Metering of the water shall be done and its records shall be maintained. No ground water shall be extracted.	Complied. No ground water is extracted. Fresh water requirement for Samudra township and Adani Hospital is approximately 1.10 MLD which is sourced through Gujarat Water Infrastructure Ltd. (GWIL) pipeline from Narmada water supply and APSEZ desalination plant. No ground water is being Extracted. Record maintained for quantity of water usage during the period Oct'17 to Mar'18 is attached as



From : Oct'17 To : Mar'18

Sr. No.	Conditions	(Compliance Status as on 31-03-2018				
IVO.		Anneyure - 1	Annexure – 1.				
29.	The total sewage generation from the proposed social infrastructure project shall not exceed 7.2 MLD.	Complied. Average quantity of sewage generation was 749 KLD at Samudra township and 19 KLD at Adani Hospital. Average total quantity of sewage generation was 0.8 MLD. Generated sewage is treated to utilize for horticultural purpose. Details of sewage generated during the period Oct'17					
30.	The project proponent shall install and operate adequate sewage treatment plants (STP) comprising of 3 modules of STP (each of 2.5 MLD) to achieve ultimate capacity of 7.5 MLD, for treatment of sewage. These STP modules shall be operated regularly and effectively to achieve the GPCB norms.	STP having capacity of 2.5 MLD is constructed ar operated in township area. Treated sewage is utilize for horticulture purposes after achieving discharge norms of GPCB. One STP having capacity of 30 KLD is constructed and operated in Hospital. Treated sewage is utilized for horticulture purposes.			e is utilized discharge constructed e is utilized er is being di MoEF&CC Laboratory		
		PARAMETERS	UNIT	Min	Max	Perm. Limit ^{\$}	
		рН		6.54	7.74	6.5 – 8.5	
		TSS	mg/L	10	28	100	
		BOD (3 Days @ 27 °C)	mg/L	8	19	30	
		Fecal Coliform	MPN/100ml	110	920	< 1000	
		Please refer A reports. Appro	x. INR 27	3 for Lakh	detaile is spe	nt for all	
31.	Two modules of STP of 2.5 MLD (i.e. total 5 MLD) shall be installed on one side of the Bhukhi River and one module of STP of 2.5 MLD shall be installed on the other side of the Bhukhi River passing through the social	side of Bhukhi STP of 30 KLD					



From : Oct'17 To : Mar'18

Sr. No.	Conditions	Compliance Status as on 31-03-2018
	infrastructure project. Hence no any cross drainage civil work shall be carried out.	Hence no cross drainage civil work is carried out at AMSIPL Area.
32.	Out of total 7.2 MLD of treated sewage conforming the GPCB norms, 2 MLD treated sewage shall be utilized within the project area for plantation / gardening whereas balance 5.2 MLD of treated sewage shall be utilized in the identified area of MPSEZL for plantation / gardening.	Complied. During Oct'17 to Mar'18 approx. 0.8 MLD treated water is used for gardening / plantation purpose within township area / APSEZ area.
33.	In no case, the wastewater / treated sewage shall be discharged into the river Bhukhi passing through the social infrastructure project.	Complied During Oct'17 to Mar'18 approx. 0.8 MLD treated water is used for gardening / plantation purpose within township area / APSEZ area. Hence in no case, the wastewater / treated sewage is discharged into the river Bhukhi passing through the social infrastructure project.
34.	Best available technology shall be used for disinfection of treated sewage before reuse / discharge.	Complied. Chlorination treatment is provided for disinfection before reuse.
35.	Rain water harvesting of roof top run off of the building to be constructed as a part of social infrastructure as per the plan submitted shall be implemented. Before recharging the rain water, pre-treatment must be done to remove suspended matter.	Complied. Location of rain water harvesting was earmarked at one of location in identified SEZ area based on direction of flow of storm water channel. However underground water is saline in nature due to sea water ingress and harvested water is likely to get contaminated in high tide. The project will be taken up upon finding out the solution for rain water harvesting within project boundary.
36.	The Municipal Solid Waste (MSW) shall be properly collected and segregated at source and it shall be disposed as per the guidelines of the MSW Rules 2000, as may be amended time to time. The dried biomass from the STP will be used as manure in gardening / plantation.	Complied. A well-established system for Municipal Solid Waste (MSW) management is in place. Municipal solid waste collection from AMSIPL area is being done on daily bases. Collected dry waste is being transported to Material Recovery Facility (MRF) where it is being sorted out in different streams e.g. paper/plastic/cardboard/glass/metal. These sorted wastes are further transported for recycling.



From : Oct'17 To : Mar'18

Sr. No.	Conditions	Compliance Status as on 31-03-2018
		AMSIPL has installed Organic Waste Converter within premises for converting food waste in to manure and generated manure is being utilized by horticulture department in green belt area. Total 467.4 MT of food waste was converted to manure during financial year of 2017-18 for entire APSEZ. Dry waste collection drive including plastic free drive and waste segregation drive is being organised on regularly basis.
37.	The Bio-medical Waste (BMW) shall be disposed as per guidelines of BMW rules 1998 as may be amended from time to time.	Complied. Multispecialty hospital has taken the necessary approvals from GPCB for the disposal of Bio Medical Waste. Total 3295 kg of bio medical waste was disposed to Common Bio Medical Waste Treatment facility during financial year of 2017-18 by M/s Distormed Kutch Services Pvt. Ltd., Bhuj at the frequency of once in two days Log book showing the record of Bio-medical Waste collection is attached as Annexure – 4.
38.	Hazardous wastes, if any generated during the operation phase shall be handled as per the Hazardous Waste (Management, Handling & Transboundary Movement) Rules 2008, as may be amended from time to time.	Point Noted. No hazardous waste was generated during the compliance period of Oct'17 to Mar'18. If any hazardous waste generation in future, it will be dispose through authorised agency only.
39.	54,600 sq.m. area shall be earmarked for the parking purpose as proposed. The area earmarked for the parking shall be used for parking only. No other activity shall be permitted in this area.	Complied. Construction work for the project is partially completed. Entire parking area is earmarked within township premises. This parking is earmarked within township premises and is used for said purpose only.
40.	Necessary signage including continuous display of status of parking availability at entry, exit and all other appropriate places shall be provided which should have appropriate size of letters and shall be visible from the at least 50 meter distance from the adjacent road.	Complied. Project is under development and area is earmarked for parking area as per National Building Code requirement. Trained security guards are deputed round the clock to guide/help for entry, exit and parking. Continuous display regarding status of parking availability will be installed once project is in full-fledged operation.
41.	No public space shall be used or blocked for the parking and the	Complied. Adequate parking area has been provided as per



From : Oct'17 To : Mar'18

Sr. No.	Conditions	Compliance Status as on 31-03-2018
	trained staff shall be deployed to guide the visitors for parking and helping the senior citizens and physically challenged people	National Building Code. Trained security guards are available round the clock to guide/help for entry, exit and parking to senior citizens and physically challenged people.
42.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.	Complied. Separate entry and exits have been provided at main gate with architectural divider for proper traffic management. Appropriate arrangements are made for emergency situations.
43.	Common utilities like drinking water facility, toilets etc shall be provided on each floor with adequate signage thereof. Adequate distance shall be maintained between the drinking water and toilet blocks.	Complied. Common utilities like drinking water facility, toilets etc. are provided at Adani Hospital and commercial building with adequate distance between drinking water & toilet facilities.
44.	The green belt shall be developed in 50 Hectares area in terms of peripheral green belt around the project site, road side plantation and green belt on either side of the Bhukhi river. The project proponent shall plant at least 20,000 trees in green belt, as proposed. The open spaces inside the social infrastructure project shall be suitably landscape and covered with vegetation of indigenous variety.	Complied. AMSIPL has developed 38.72 ha area as green belt with plantation of 44872 saplings in AMSIPL premises. The open spaces inside the social infrastructure project are suitably landscaped and covered with green lawn and other vegetation. So, far APSEZ have developed more than 400 ha. area as greenbelt with plantation more than 8.0 Lacs saplings within the APSEZ area. Details of the green belt development activity done by APSEZL Mundra are attached as Annexure – 5 .
45.	The area earmarked as green area shall be used only for green belt and shall not be altered for any other purpose. The fund earmarked for green belt development shall not be diverted for any other purpose.	Complied. The area earmarked as green area is used only for green belt and not altered for any other purpose. Separate budget for the horticulture department is earmarked every year. The spent budget of Horticulture Department for the period of financial year 2017-18 is INR 607 lacs. Details upon green belt development are provided in condition no. 44 above.
46.	The project proponent shall explore the application of solar energy and shall be incorporated for the illumination of common areas, lighting of internal roads	Complied. Solar power system of 1.5 MW has been installed at roof top of residential blocks of Samudra Township. Information has been already submitted to MoEF&CC along with Half Yearly Compliance Report Apr'16 to



From : Oct'17 To : Mar'18

Sr. No.	Conditions		Compliance Status as on 31-03-2018				
	and passages in addition to solar water heating, if any.	Sep'16. Solar power plant of 69 KW capacities is installed on					
		•	f Adan	•		is ready for	
47.	The acoustic enclosures shall be installed at all noise generating equipments and the noise level shall be maintained as per the MoEF / CPCB guidelines / norms both during day and night time.	Complied. D.G. Sets having acoustic enclosures are provided as stand-by and used in case of main power failure only However, regular noise monitoring is being carried				ter failure only. being carried being carried edited agency Ltd. Summary	
		Noise	Unit	Min	Max	Perm. Limit	
		Day Time	dB(A)	51.2	70.8	75	
		Night Time	dB(A)	51.4	68.4	70	
		Please refer Annexure – 3 for detailed analyst reports. Approximately INR 27 Lakh is spent for environmental monitoring activities during F.Y. 20118.			s spent for all		
48.	The project proponent shall install the electric appliances, which are energy efficient and meeting with the Bureau of Energy Efficiency norms, wherever applicable.	Sensor (Occ buildings ar	cu swit e provio pliances	ch) & AC ded. AMSII	Temp	cion of Motion . Controls in installed the the Energy	



From : Oct'17 To : Mar'18

Sr.	Conditions	Compliance Status as on				
No.			31-03-2	018		
49.	The energy audit shall be conducted at regular interval for the project and the recommendations of the audit report shall be implemented with spirit.	Complied. Energy audit is carried our once in a three years. Last audit was carried out on 21.01.2017 by M/s. Mitcon Consultancy & Engineering Services Ltd. Energy audit report for Samudra Township was submitted as a part of compliance report for the duration of Apr'17 to Sep'17. Action plan for implementation of audit recommendations are as below.				
		Sr.	Energy Saving Area	Proposed		
		No.		Implementation Action Plan		
			5 0 : 1	with tentative schedule		
		1	Energy Saving by shifting load of Block C1 TRF06 on TRF04 and isolating TRF06	Proposed implementation is under execution will be completed.		
		2 Energy Saving by The replace replacing Recirculation will be done		The replacement pump will be done on expiry of their useful life.		
		Suction Cleaning in FY 2018-19 Raw sewage water of complete		We will start the same by FY 2018-19 in the case of complete faulty condition.		
		4 Replacement of 70 W The replacem MH with 21 W LED in MH with 21W parking lights done on expire		The replacement 70 W MH with 21W LED will be done on expiry of their useful life.		
		conventional ceiling convent		The replacement conventional ceiling fans will be done on expiry of their useful life.		
		6	Replacement of 44 W CFL with 21 W LED in parking lights	The replacement 44 W MH with 21W LED will be done on expiry of their useful life.		
50.	The roof should meet regulatory	Comi	lied			
	requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirements.	Energy Conservation Building Code is considered during the development of buildings.				
51.	Use of glass shall be minimal to reduce the electricity	•				



From : Oct'17 To : Mar'18

Sr. No.	Conditions	•	Status as on 3-2018			
	consumption and load on airconditioning.	conditioning.	umption and load on air-			
52.	Risk estimation shall be carried out for the project and disaster management plan shall be prepared and its recommendations shall be implemented in the time bound manner.	Complied. Emergency Response Plan was prepared by Trivedi & Associates Technical Services Pvt. Ltd in August, 2015 for AMSIPL which included risk estimation for medical emergency, fire emergency, natural calamities. Detail are submitted to the MoEF & CC along with half yearly compliance report for the period from Apr – 2015 to Sep – 2015. Various plans as fire service plan, communication plan, mutual aid plan, and evacuation plan are implemented to combat with emergency situations.				
53.	The raw water sumps will be equipped with suction differential head / partition so as to insure that minimum 500 KL water shall remain reserved as fire water as proposed.	Complied. 250 KL of fire water is reserved with fire hydrant system for Adani hospital. Approximately 400 KL water is available in 6 different water tanks at various sectors of Samudra Township. In total, more than 500 KL water is reserved as fire water at AMSIPL.				
54.	Necessary emergency lighting system along with emergency power back up system shall be provided. In addition, emergency public address system arrangement and signage for emergency exit route shall be provided on each floor.	Complied.				
55.	Necessary auto glow, signage at	Public address system is available with the securit staff in the vicinity. Emergency contact is display each block as below Security control 8980048877 Township Security 8980015046 control Medical Adani hospital 2838-619555 reception Medical Emergency 2838-619667 Number - Medical Emergency 7574848413 mobile Number Fire control room- 2838-255801 Fire control room mob. 9879114996 Complied.				



From : Oct'17 To : Mar'18

Sr. No.	Conditions			nce Status 1-03-2018	as on		
	all appropriate places shall be provided to guide the people towards exits and assembly points during the unforeseen emergency and eventuality conditions.	Auto glow signage is provided at adequate locations to provide guidance to the people towards exits. Also the township & Adani Hospital is under security guard surveillance to combat with unforeseen emergency conditions. Photograph showing the auto glow signages were submitted along with compliance report submission for the duration of Oct'16 to Mar'17.					
56.	Training to the staff for the First Aid and Fire Fighting Alarm with regular mock drill shall be conducted regularly and shall be made in integral part of the disaster management plan of the project.	Complied. For first aid situations a First Aid centre is provided at Samudra Township. Multispecialty Hospital is part of the project activity which can be utilised for medical emergencies. APSEZ has provided training to 19 personnel for First-aid through Red Cross Society during 20.04.17 to 21.04.17. Regular mock drill is also conducted at project site. The report of the same was submitted as a part of compliance report for the duration of Apr'17 to Sep'17.					
57.	Ozone Depleting Substance (Regulation and Control) rules shall be followed while designing the air conditioning system of the project.	Complied. Ozone Depleting Substance inventory was produced and is maintained during the compliance period of Oct'17 to Mar'18. New gas being used in refilling is ozone friendly in nature.					
58.	Environment Management Cell shall be formed by the project proponent during operation phase which will supervise and monitor the environment related aspects of the project including incremental pollution loads on the ambient air quality, noise and water quality periodically till the management of the project remains with the project proponent.	Complied. APSEZL as group has a well structured Environment Cell, staffed with qualified manpower for implementation of the Environmental Monitoring and Management Plan. Organogram showing Environment Management Cell is attached as Annexure – 6. Ambient Air Quality (twice in a week) and Noise (once in a month) monitoring are being carried out by NABL and MoEF&CC accredited agency namely M/s.					
		Total Sampling Locations: 2 Nos. Parameter Unit Min Max Perm. Limit\$					
		PM ₁₀	µg/m³	40.37	94.30	100	
		PM _{2.5}	µg/m³	16.58	55.71	60	
		SO ₂	µg/m³	5.32	24.49	80	



From : Oct'17 To : Mar'18

Sr. No.	Conditions		. 3	ence Status 1-03-2018	as on	
		NO ₂	µg/m³	9.59	41.43	80
		Noise	Unit	Min	Max	Perm. Limit
		Day Time	dB(A)	51.2	70.8	75
		Night Time	dB(A)	51.4	68.4	70
		Please refer reports. App environmenta year of 2017-	rox. INI	i re – 3 fo R 27 Lakh	is spent	analysis for all
B. G	eneral Conditions					
59.	The project proponent shall permit the outside people to use the social infrastructures like hospital, schools, colleges etc. coming up in the proposed project, as per their undertaking dated 21/07/2009.	Complied. Outside peo infrastructure Total 12,131 Department) from nearby during finan Lakh worth outling finan villagers during	es like ho patient as wel villages cial year	ospital and s is including I IPD (In-P were treal of 2017-15 redical servi	OPD (Out atient Depa ced in the 8. Approx I	Patient artment) Hospital NR 100
60.	Various provisions of the Environment (Protection) Act, 1986 and the Rules / Notifications issued there under by the Ministry of Environment and Forest, Govt. of India, from time to time shall be strictly complied with.	Point noted.				
61.	No further expansion or modification 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 conditions imposed and to add additional environmental protection measures required, if	Point noted.				



From : Oct'17 To : Mar'18

Sr.	Ocadinicas	Compliance Status as on
No.	Conditions	31-03-2018
	any.	
62.	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. Separate budget for the Environment cell is earmarked every year. All environmental and horticulture activities are considered at group level and budget allocation is also done accordingly. Budget for environmental management measures (including horticulture) for the FY 2017-18 is to the tune of INR 957 lakh. Out of which, Approx. INR 890 lakhs are spent during F.Y.2017-18. Detailed breakup of the expenditures is attached as Annexure - 7 .
63.	The applicant shall inform the public that the project has been accorded Environmental Clearance by the SEIAA and i.e. 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 the clearance letter, in at least two local newspaper 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. The advertisement was circulated in Gujarati language through local newspaper – Kutchh Mitra as well as in English language through local newspaper – Indian Express on the date of 10.03.2010. Information has been already submitted to MoEF & CC along with half yearly compliance report April – 2015 to Sep – 2015.
64.	It shall be mandatory for the project management to submit half yearly compliance report in respect of the stipulated prior Environmental Clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st	Complied. Last compliance report submitted to the Ministry of Environment, Forests & Climate Change as well as SEIAA with letter reference No. APSEZL/EnvCell/2017-18/040 dated 22.11.2017 in soft as well as hard copy.
	December of each calendar year.	
65.	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Point noted.
66.	The project authorities shall	Complied



From : Oct'17 To : Mar'18

Sr. No.	Conditions	Compliance Status as on 31-03-2018
	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 the project.	
67.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Point noted.
68.	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 inter-alia under the provisions of the water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, the environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Complied. The company has implemented the provided conditions and the compliance report is being submitted regularly. Last half yearly compliance report was submitted to Ministry of Environment, Forest & Climate Change and other concerned government agencies / offices vide our letter reference No. APSEZL/EnvCell/2017-18/040 dated 22.11.2017 in soft as well as hard copy. A copy of the same is also available on our weblink: https://www.adaniports.com/ports-downloads
69.	This environmental clearance is valid for five years from the date of issue.	Point noted.
	Additional condition – (amer SEIAA/GUJ/EC/8(b)/44/2010 date	
	The applicant shall carry out comparative carbon footprint study of low rise building with large ground coverage v/s high rise building with low ground coverage through reputed institute like CEPT or GIDR and submitted to SEIAA within one year from the issuance of EC.	Complied. Comparative carbon footprint study report submitted to the MoEF & CC along with half yearly compliance report Oct – 2014 to March – 2015.

Annexure – 1



ANNEXURE - 1

Water Consumption and Wastewater Generation Details for AMSIPL (October'17 to March'18)

Month	Water Consumption, KL	STP Water Inlet, KL	STP Water Outlet, KL
Oct'17	33,920	24,433	20,274
Nov'17	33,271	18,554	23,979
Dec'17	30,232	24,125	22,074
Jan'18	41,823	23,512	23,257
Feb'18	43,660	23,083	16,720
Mar'18	41,795	22,425	26,607
Total	2,24,701	1,36,132	1,32,911

Note:

- 1. Treated sewage water is completely used for gardening purpose
- 2. As for the good faith and life of MBR we use to flush the one MBR with treated water from the other i.e. approx. 4 times a month. That water is again treated through MBR, because of that the outlet reading is higher than the inlet.

Annexure – 2



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"HALF YEARLY ENVIRONMENTAL **MONITORING REPORT"**

FOR



ADANI MUNDRA SEZ INFRASTRUCTURE PVT. LTD. TAL: MUNDRA, KUTCH, MUNDRA – 370 421

MONITORING PERIOD: OCTOBER 2017 TO MARCH 2018

PREPARED BY:



POLLUCON LABORATORIES PVT.LTD.

PLOT NO.5/6 "POLLUCON HOUSE", OPP. BALAJI INDUSTRIAL SOCIETY, OLD SHANTINATH SILK MILL LANE, NEAR GAYTRI FARSAN MART, NAVJIVAN CIRCLE, UDHANA MAGDALLA ROAD, SURAT-395007. PHONE/FAX - (+91 261) 2455 751, 2601 106, 2601 224. E-mail: pollucon@gmail.com Web: www.polluconlab.com

TC - 5945

ISO 9001:2015

ISO 14001:2015

OHSAS 18001:2007



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RESULTS OF STP WATER OUTLET

	TEST	Unit	AMSIPL SAMUNDRA TOWNSHIP STP OUTLET								
SR. NO	TEST PARAMETERS		Octob 04/10/ 2017	er-17 24/10/ 2017	Novem 06/11/ 2017	22/11/ 2017	Decem 06/12/2 017	ber-17 21/12/ 2017	GPCB Permissibl e Limit	TEST METHOD	
1	рН		6.75	6.74	7.07	6.98	7.58	7.12		IS3025(P11)83Re.02	
2	Total Suspended Solids	mg/L	20	24	28	15	28	22	100	IS3025(P17)84Re.02	
3	BOD (3 days @ 270 C)	mg/L	11	16	10	19	16	17	30	IS 3025 (P44)1993Re.03Editi on2.1	
4	Fecal Coliform	MPN/ 100 mL							< 1000	APHA (22ndEdi) 9221 C&E	

	7507		AMSIPL SAMUNDRA TOWNSHIP STP OUTLET								
SR. NO	TEST PARAMETERS	Unit	Janua	ry-18	Febru	ebruary-18		:h-18	GPCB		
				22/01/ 2018	05/02/ 2018	22/02/ 2018	15/03/ 2018	20/03/ 2018	Permissible Limit	TEST METHOD	
1	рН	1		6.98	6.95	7.02	7.15	7.18	-	IS3025(P11)83Re.02	
2	Total Suspended Solids	mg/L		28	10	14	20	24	100	IS3025(P17)84Re.02	
3	BOD (3 days @ 270 C)	mg/L	1	8	12	18	12	15	30	IS 3025 (P44)1993Re.03Editi on2.1	
4	Fecal Coliform	MPN/ 100 mL		170	430	920	540	540	< 1000	APHA (22ndEdi) 9221 C&E	

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	7507				AI	ADANI HOSPITAL STP OUTLET					
SR. NO	TEST PARAMETERS	Unit	Octob 04/10/ 2017	er-17 24/10/ 2017	Novem 06/11/ 2017	ber-17 22/11/ 2017	Decem 06/12/ 2017	ber-17 22/12/ 2017	GPCB Permissible Limit	TEST METHOD	
1	рН		7.17	7.03	7.23	7.33	7.74	7.27		IS3025(P11)83Re.02	
2	Total Suspended Solids	mg/ L	26	26	14	24	28	22	100	IS3025(P17)84Re.02	
3	BOD (3 days @ 270 C)	mg/ L	16	18	19	14	18	12	30	IS 3025 (P44)1993Re.03Editi on2.1	
4	Fecal Coliform	MPN/ 100 mL							< 1000	APHA (22ndEdi) 9221 C&E	

^{*}Below Detection limit

	TEST	Unit	ADANI HOSPITAL STP OUTLET							
SR. NO	SR. TEST NO PARAMETERS		Janua 08/01/ 2018	22/01/ 2018	Februa 05/02/ 2018	22/02/ 2018	Marc 05/03/ 2018	20/03/ 2018	GPCB Permissible Limit	TEST METHOD
1	рН		7.36	7.12	7.02	7.3	7	6.54		IS3025(P11)83Re.02
2	Total Suspended Solids	mg/L	20	16	14	23	20	17	100	IS3025(P17)84Re.02
3	BOD (3 days @ 270 C)	mg/L	12	17	12	10	14	16	30	IS 3025 (P44)1993Re.03Editi on2.1
4	Fecal Coliform	MPN/ 100 mL	110	170	540	920	920	430	< 1000	APHA (22ndEdi) 9221 C&E

^{*}Below Detection limit



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RESULTS OF AMBIENT AIR QUALITY MONITORING

	SAMUDRA TOWNSHIP STP									
Sr. No.	Date of Sampling	Particulate Matter (PM ₁₀) µg/m3	Particulate Matter (PM _{2.5}) µg/m3	Sulphur Dioxide (SO ₂) µg/m3	Oxides of Nitrogen (NO ₂) μg/m3					
1	04/10/2017	79.42	33.68	9.67	16.81					
2	07/10/2017	85.82	47.40	17.41	28.28					
3	11/10/2017	94.30	55.71	20.43	32.89					
4	14/10/2017	66.49	29.52	11.90	24.60					
5	18/10/2017	76.49	46.63	14.89	29.48					
6	21/10/2017	57.52	31.60	8.64	21.27					
7	25/10/2017	61.42	25.78	16.59	36.40					
8	28/10/2017	73.38	28.69	21.16	30.26					
9	01/11/2017	75.58	41.58	12.36	20.35					
10	04/11/2017	82.41	36.59	22.74	38.24					
11	08/11/2017	62.40	28.69	16.56	35.54					
12	11/11/2017	48.37	22.45	11.80	25.49					
13	15/11/2017	68.62	33.68	14.90	30.44					
14	18/11/2017	72.40	26.19	18.22	41.43					
15	22/11/2017	60.33	22.45	20.91	27.70					
16	25/11/2017	76.49	31.60	8.83	23.61					
17	29/11/2017	61.18	24.53	21.31	26.69					
18	02/12/2017	52.28	20.61	17.56	20.90					
19	06/12/2017	40.37	18.62	12.37	26.68					
20	09/12/2017	62.57	35.28	18.30	30.14					
21	13/12/2017	74.29	26.39	20.46	33.79					
22	16/12/2017	42.60	19.41	8.72	24.45					
23	20/12/2017	47.81	24.31	5.32	18.01					
24	23/12/2017	56.31	32.62	9.58	25.69					
25	27/12/2017	64.80	28.51	16.65	15.12					
26	30/12/2017	58.29	22.31	14.27	31.62					
27	03/01/2018	65.42	29.42	9.67	15.52					
28	06/01/2018	54.32	20.53	14.15	33.28					
29	10/01/2018	77.39	26.35	19.23	25.38					
30	13/01/2018	68.90	34.32	16.70	29.31					

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	SAMUDRA TOWNSHIP STP									
Sr. No.	Date of Sampling	Particulate Matter (PM ₁₀) μg/m3	Particulate Matter (PM _{2.5}) µg/m3	Sulphur Dioxide (SO ₂) µg/m3	Oxides of Nitrogen (NO ₂) µg/m3					
31	17/01/2018	57.49	21.36	11.42	27.37					
32	20/01/2018	49.30	31.66	6.39	22.41					
33	24/01/2018	69.33	30.40	12.34	32.33					
34	27/01/2018	52.40	22.19	15.87	20.26					
35	31/01/2018	60.28	36.40	18.43	19.16					
36	03/02/2018	50.29	22.19	18.81	27.47					
37	07/02/2018	65.42	35.78	9.74	15.18					
38	10/02/2018	71.50	31.25	16.87	29.50					
39	14/02/2018	41.49	16.58	11.64	25.37					
40	17/02/2018	53.39	26.39	14.47	31.81					
41	21/02/2018	68.52	37.36	19.64	36.22					
42	24/02/2018	57.80	34.49	8.14	23.62					
43	28/02/2018	49.42	20.36	6.33	17.57					
44	03/03/2018	48.62	21.23	10.66	34.54					
45	07/03/2018	59.41	33.45	20.72	26.84					
46	10/03/2018	68.71	27.38	12.79	19.58					
47	14/03/2018	46.51	19.45	15.34	30.31					
48	17/03/2018	65.42	38.44	21.80	36.67					
49	21/03/2018	52.59	29.67	18.51	28.38					
50	24/03/2018	70.82	32.54	14.26	25.52					
51	28/03/2018	66.23	26.43	11.55	31.29					
52	31/03/2018	54.32	30.38	8.88	22.49					
	TEST METHOD	IS:5182(Part 23):Gravimetric CPCB - Method (Vol.I,May- 2011)	Gravimetric- CPCB - Method (Vol.I,May- 2011)	IS:5182(Part II):Improved West and Gaeke	IS:5182(Part VI):Modified Jacob & Hochheiser (NaOH- NaAsO2)					

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RESULTS OF AMBIENT AIR QUALITY MONITORING

		SAMUDRA TOV	VNSHIP CUSTOMER	CARE	
Sr.No.	Date of Sampling	Particulate Matter (PM ₁₀) µg/m3	Particulate Matter (PM _{2.5}) µg/m3	Sulphur Dioxide (SO ₂) µg/m3	Oxides of Nitrogen (NO ₂) µg/m3
1	04/10/2017	84.49	36.64	20.37	32.36
2	07/10/2017	75.59	43.72	15.89	24.46
3	11/10/2017	69.51	40.39	13.24	35.47
4	14/10/2017	48.63	21.65	9.61	19.57
5	18/10/2017	56.33	35.57	16.52	23.48
6	21/10/2017	82.93	46.63	19.92	34.56
7	25/10/2017	72.52	31.64	11.44	25.44
8	28/10/2017	65.78	27.48	14.86	27.40
9	01/11/2017	81.18	45.38	16.73	23.38
10	04/11/2017	69.33	29.56	24.58	32.56
11	08/11/2017	76.79	38.72	14.18	30.27
12	11/11/2017	65.42	34.56	12.33	20.38
13	15/11/2017	91.17	43.72	17.55	33.89
14	18/11/2017	55.30	23.73	10.34	36.18
15	22/11/2017	68.30	27.48	7.95	39.63
16	25/11/2017	78.77	35.39	15.75	35.44
17	29/11/2017	67.28	32.48	19.95	22.37
18	02/12/2017	59.08	23.42	12.78	23.88
19	06/12/2017	65.37	35.42	9.59	20.09
20	09/12/2017	53.39	19.30	14.38	25.05
21	13/12/2017	69.43	22.39	10.65	24.33
22	16/12/2017	56.41	25.60	13.40	19.87
23	20/12/2017	64.83	30.30	11.26	27.03
24	23/12/2017	49.51	18.39	19.84	22.32
25	27/12/2017	67.79	32.41	7.96	17.86
26	30/12/2017	46.79	25.31	17.69	27.01
27	03/01/2018	74.33	33.60	7.08	18.39
28	06/01/2018	47.52	24.20	16.79	30.30
29	10/01/2018	68.40	36.53	10.73	32.46
30	13/01/2018	58.29	23.54	13.32	25.53

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		SAMUDRA TOW	NSHIP CUSTOMER	R CARE	
Sr.No.	Date of Sampling	Particulate Matter (PM ₁₀) µg/m3	Particulate Matter (PM _{2.5}) µg/m3	Sulphur Dioxide (SO₂) µg/m3	Oxides of Nitrogen (NO ₂) µg/m3
31	17/01/2018	42.61	35.37	8.74	20.34
32	20/01/2018	66.28	38.38	15.10	29.33
33	24/01/2018	52.48	21.39	9.59	26.45
34	27/01/2018	57.62	26.47	12.48	23.80
35	31/01/2018	72.27	42.38	5.33	21.42
36	03/02/2018	58.41	29.56	11.69	24.20
37	07/02/2018	72.39	38.30	7.19	18.39
38	10/02/2018	54.17	23.42	14.57	22.43
39	14/02/2018	64.52	27.34	9.75	20.33
40	17/02/2018	47.58	22.64	16.19	27.58
41	21/02/2018	59.20	31.75	12.55	33.39
42	24/02/2018	68.22	39.62	10.56	29.28
43	28/02/2018	55.32	24.37	13.54	19.60
44	03/03/2018	54.48	24.57	14.40	31.42
45	07/03/2018	67.91	36.86	12.93	23.32
46	10/03/2018	56.59	29.27	9.91	20.62
47	14/03/2018	61.56	22.47	11.24	26.51
48	17/03/2018	50.18	27.62	18.40	32.64
49	21/03/2018	65.61	39.46	21.68	35.59
50	24/03/2018	48.60	18.47	7.11	27.49
51	28/03/2018	57.50	33.52	16.95	22.34
52	31/03/2018	69.43	38.47	17.60	34.24
	TEST METHOD	IS:5182(Part 23):Gravimetric CPCB - Method (Vol.I,May- 2011)	Gravimetric- CPCB - Method (Vol.I,May- 2011)	IS:5182(Part II):Improved West and Gaeke	IS:5182(Part VI):Modified Jacob & Hochheiser (NaOH- NaAsO2)

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Lab Manager



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RESULT NOISE LEVEL MONITORING

Result of Noise level monitoring [Day Time]

	Name of Location		S	AMUNDRA TO	OWNSHIP ST	'P		
SR. NO.	Name of Location	Result [Leq dB(A)]						
	Sampling Date & Time	25/10/2017	11/11/2017	20/12/2017	24/01/2018	17/02/2018	07/03/2018	
1	6:00-7:00	60.4	60.1	60.8	58.4	56.4	57.1	
2	7:00-8:00	63.1	67.2	63.4	62.1	60.4	60.4	
3	8:00-9:00	61.8	53.9	59.4	63.4	58.4	59.1	
4	9:00-10:00	65.7	57.2	63.1	65.2	65.1	62.4	
5	10:00-11:00	65.2	60.0	60.7	68.1	62.7	61.4	
6	11:00-12:00	63.8	65.3	60.8	68.3	68.4	63.1	
7	12:00-13:00	68.4	63.1	63.4	65.4	62.1	65.4	
8	13:00-14:00	64.8	64.8	65.1	64.2	63.4	62.4	
9	14:00-15:00	62.4	69.2	65.2	69.4	61.8	62.8	
10	15:00-16:00	68.2	62.7	66.8	65.7	69.4	62.9	
11	16:00-17:00	63.4	67.4	62.7	66.1	61.5	63.4	
12	17:00-18:00	61.8	65.1	67.1	68.4	63.4	61.7	
13	18:00-19:00	70.8	69.1	65.7	62.1	68.7	64.7	
14	19:00-20:00	69.1	58.2	64.1	61.8	64.1	67.1	
15	20:00-21:00	65.4	61.2	62.8	65.4	66.2	65.1	
16	21:00-22:00	64.2	59.3	63.8	61.8	65.8	61.8	
	Day Time Limit*			75 Leq	dB(A)			

Result of Noise level monitoring [Night Time]

SR.	Name of Location		SAMUNDRA TOWNSHIP STP Result [Leq dB(A)]						
NO.	Name of Location								
	Compling Date 9 Time	25/10/2017			· _	· · ·			
	Sampling Date & Time	& 26/10/2017	& 12/11/2017	& 21/12/2017	& 25/01/2017	& 18/02/2018	& 08/03/2018		
1	22:00-23:00	63.4	62.8	60.4	63.4	65.4	63.4		
2	23:00-00:00	62.9	58.9	59.4	61.8	62.8	61.2		
3	00:00-01:00	64.1	57.5	62.4	57.4	65.1	60.2		
4	01:00-02:00	63.4	52.8	61.7	59.1	60.4	62.1		
5	02:00-03:00	68.4	57.5	60.3	60.4	61.4	61.2		
6	03:00-04:00	62.8	54.8	62.8	60.8	59.7	62.4		
7	04:00-05:00	64.1	58.5	61.8	63.4	60.8	63.1		
8	05:00-06:00	63.7	52.9	60.9	61.4	63.4	60.7		
N	light Time Limit*	70 Leq dB(A)							



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Result of Noise level monitoring [Day Time]

	Name of Location		SAMUND	RA TOWNSH	IIP CUSTOM	ER CARE		
SR. NO.	Name of Location	Result [Leq dB(A)]						
1101	Sampling Date & Time	04/10/2017	22/11/2017	06/12/2017	10/01/2018	21/02/2018	14/03/2018	
1	6:00-7:00	55.1	51.2	56.2	62.4	54.4	56.1	
2	7:00-8:00	59.1	58.6	60.1	60.1	58.7	59.4	
3	8:00-9:00	63.4	67.2	62.8	62.8	61.4	61.7	
4	9:00-10:00	65.1	64.9	64.0	69.4	62.7	63.1	
5	10:00-11:00	62.1	68.3	63.1	67.1	68.4	61.7	
6	11:00-12:00	60.4	62.1	67.4	67.3	65.1	62.7	
7	12:00-13:00	68.4	59.3	63.4	65.2	61.8	68.4	
8	13:00-14:00	62.4	61.2	62.8	65.3	66.7	64.1	
9	14:00-15:00	59.8	69.3	65.1	65.9	69.3	62.4	
10	15:00-16:00	60.7	67.8	66.4	61.4	61.5	68.4	
11	16:00-17:00	60.6	68.0	66.1	61.3	62.8	62.4	
12	17:00-18:00	62.4	64.2	63.1	60.4	68.4	63.4	
13	18:00-19:00	64.3	62.1	62.4	65.2	61.8	65.1	
14	19:00-20:00	62.8	64.6	62.8	62.8	63.4	67.4	
15	20:00-21:00	65.1	65.1	64.1	63.4	65.1	63.4	
16	21:00-22:00	61.5	60.5	60.8	65.8	67.7	65.2	
	Day Time Limit*			75 Leq	dB(A)			

Result of Noise level monitoring [Night Time]

SR.	Name of Location		SAMUNDRA TOWNSHIP CUSTOMER CARE					
NO.	Name of Location			Result [L				
	Sampling Date & Time	04/10/2017 & 05/10/2017	22/11/2017 & 23/11/2017	. &	. &	&	&	
1	22:00-23:00	65.1	59.7	62.1	64.1	63.4	61.4	
2	23:00-00:00	60.4	60.1	58.4	58.4	60.0	60.4	
3	00:00-01:00	58.4	61.4	56.1	52.4	59.7	54.1	
4	01:00-02:00	56.1	54.8	57.1	54.1	54.1	56.4	
5	02:00-03:00	51.4	59.7	60.1	51.6	55.2	59.1	
6	03:00-04:00	58.2	57.6	52.1	59.7	56.7	51.4	
7	04:00-05:00	56.1	52.1	57.1	62.4	59.4	60.1	
8	05:00-06:00	61.7	60.8	60.8	62.7	60.4	62.7	
N	light Time Limit*			70 Lea	dB(A)			



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MINIMUM DETECTION LIMIT [MDL]

	Ambient Air Parameter						
Sr. No.	Test parameter	MDL					
1	Particulate Matter (PM10) (µg/m³)	10					
2	Particulate Matter (PM 2.5) (μg/m³)	10					
3	Sulphur Dioxide (SO ₂) (μg/m ³)	5					
4	Oxides of Nitrogen (µg/m³)	5					

	STP Water parameter(mg/L)					
Sr. No.	Test parameter	MDL				
1	рН	2				
2	Total Suspended Solids (mg/L)	2				
3	BOD (3 days @ 270 C) (mg/L)	1				
4	Residual Chlorine (mg/L) 0.2					
5	Fecal Coliform (MPN INDEX/100 mL)	1.8				

H. T. Shah

Lab Manager



Annexure – 3

ate	Challan No.	В	MW WASTE	CATEGORI	ES Category	Total	Sign.
	. va	Category	Category Red	00.090.)		Kg.	
		Yellow Bag	Red Bag	Blue Bag/*C.B.	* PPC		
1	1-5						
2	105 6		3	13.4	Σ-	198	1 301 S
3							8
4	2.5	J	4	1 2.4	μ μ	107.0	A
5.	24495	7	7	7	500 gm	21.500	yes
6			5	1 8	08	1 pr	1
7	24576	3	3	1	-	Fkg	ya.
8	Q 10 10					10	(Tr
9	25855	5	S	5	-	rsky	Sk
10	40 30-					1 4 1	1 101
11							A
12	25944	406	143	7.6		26.5	the
13							1
14	26224	3	308	3		er.s	Mª.
15							/ 1 41
16							81
17							A A
18							Aic
19	27457	10	15	15	2	42	aga.
20							100
21	77540	13	19	13	_	45	eyn
22	1					1.51:	dia
23	28288	0	6	6		1210	1 year
24						9	
25					A	0.1	, 1
26	28383	5	8	7	The	2/16	1 Gra
27		1				0.01	AA
28	22968	to	(3	15	0	384	yu.
29	**					10 1	- 1
30	26324	3	80	5 . 5	0	16.5	lya
31						30	-
							* C.B. : Cardboar

NAME OF

Annexure - 4

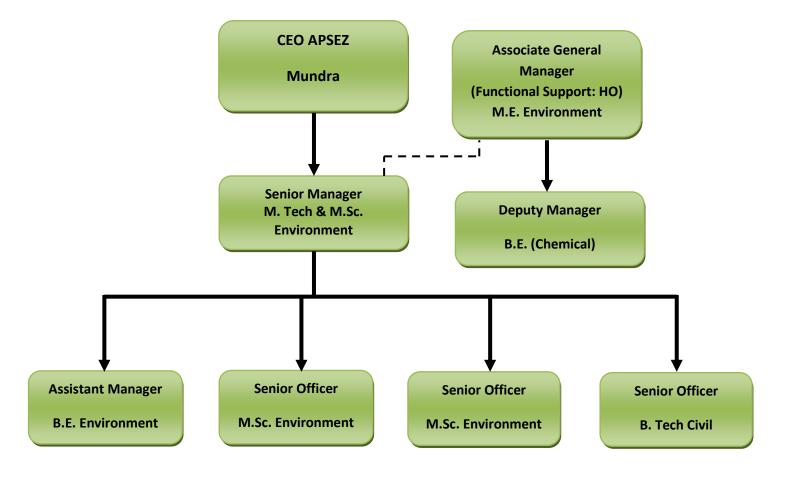
Details of Greenbelt development at APSEZ, Mundra

		Total Green Zone Detail					
LOCATION	Area (In Ha.)	Trees (Nos.)	Palm (Nos.)	Shrubs (SQM)	Lawn (SQM)		
SV COLONY	65.34	30051.00	6965.00	51138.00	80069.00		
PORT & NON SEZ	77.52	131942.00	18613.00	68166.78	58455.18		
SEZ	99.52	227135.00	15924.00	220449.60	27462.03		
MITAP	2.48	8168.00	33.00	1670.00	4036.00		
WEST PORT	83.20	182118.00	50221.00	24112.00	22854.15		
AGRI PARK	7.63	17244.00	1332.00	5400.00	2121.44		
SOUTH PORT	14.08	25150.00	3430.00	3882.00	4826.97		
Samudra Township	38.72	44872.00	11818.00	19978.07	35071.67		
Productive Farming (Vadala Farm)	23.79	27976.00	0.00	0.00	0.00		
TOTAL (APSEZL)	412.27	694656.00	108336.00	394796.45	234896.44		
		80299	2.00				

Annexure – 5

adani

Organogram of Environment Management Cell, APSEZ, Mundra



Annexure – 6

Cost of Environmental Protection Measures

Sr.	Activity		Cost incurred (INR in Lakh)		Budgeted Cost (INR in Lakh)
No.	Activity	2014 – 15	2015 – 16	2016 – 17 (Till Date)	2016 – 17
1.	Environmental Study / Audit and Consultancy	29.87	45.45	158.14	146.86
2.	Legal & Statutory Expenses	11.26	3.30	7.39	7.88
3.	Environmental Monitoring Services	23.76	26.80	15.48	32.82
4.	Hazardous Waste Management & Disposal	9.56	34.56	7.50	11.04
5.	Environment Day Celebration	7.01	7.18	6.54	12.00
6.	Treatment and Disposal of Bio- Medical Waste	1.00	1.22	0.69	1.39
7.	Mangrove Plantation	127.97	53.28	30.00	30.00
8.	Mangrove Monitoring & Conservation	36.75	20.36	20.26	40.00
9.	Horticulture Expenses	380.27	434.72	498.00	518.58
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	41.43	48.38
11.	Expenditure of Environment Dept. (Apart from above head)	184.91	135.90	112.47	178.01
	Total	843.14	837.73	897.90	1026.96

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

Year	Env.	Horticulture	Total
2012-2013	150.00	200.00	350.00
2013-2014	250.00	433.75	683.75
2014-2015	462.87	380.27	843.14
2015-2016	346.23	434.72	780.95
2016-2017	399.90	498.00	897.90
Total	1609.00	1946.74	3555.74