

APSEZ/EnvCell/2018-19/056

Date: 23.11.2018

То

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: <u>rowz.bpl-mef@nic.in</u>

- 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 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 April – 2018 to September – 2018 is enclosed here for your records. The stated information is also provided in form of a CD (soft copy).

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

Chail.

Avinash Rai Chief Executive Officer Mundra & Tuna Port

Encl: As above

Copy to:

- 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
- Member Secretary, SEIAA, Gujarat, Paryavaran Bhavan, GPCB, Sector 10 A, Gandhi Nagar 382 010
- 4) Regional Officer, Regional Office GPCB (Kutch-East), Gandhidham, 370201

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Environmental Clearance Compliance Report of



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

of

Adani Mundra SEZ Infrastructure Pvt. Limited

for the period of April-2018 to September-2018



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Compliance Report of Environmental 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 30-09-2018
A. S	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. This reply covers Condition No. 1 to 27 of
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	Construction Phase. 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 out during the compliance period of Apr'18 to Sep'18. All the specific conditions provided for construction phase will be considered upon recommencement of construction activity in future.
2(a) 2(b)	total water usage or wastes generated. 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.	



Sr. No.	Conditions	Compliance Status as on 30-09-2018
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 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.	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 out during the compliance period of Apr'18 to Sep'18. All the specific conditions provided for construction phase will be considered upon recommencement of
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.	construction activity in future.
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.	



Sr. No.	Conditions	Compliance Status as on 30-09-2018
9.	Adequate drinking water, sanitation and other amenities 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.	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
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.	completed. However, no construction activity carried out during the compliance period of Apr'18 to Sep'18. All the specific conditions provided for construction phase will be considered upon recommencement of construction activity in future.
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.	
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	



Sr. No.	Conditions	Compliance Status as on 30-09-2018
	aspects.	
15.	Use of diesel generator sets during construction phase should be enclosed type and	Complied during the construction phase. Not applicable at present.
	confirm to EPA rules for air and noise emission standards.	The details of the compliances with respect to construction phase are submitted in Oct'16 to
16.	Ready-made mix concrete should be used so far as possible	March'17 compliance report.
17.	Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices.	Construction work for the project is partially completed. However, no construction activity carried out during the compliance period of Apr'18 to Sep'18. All the specific conditions provided for construction
18.	Vehicles hired for bringing construction material at site should be in good conditions and confirm to applicable air and noise emission standards and should be operated only during non-peak hours.	phase will be considered upon recommencement of construction activity in future.
19.	Ambient noise levels shall 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 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 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.	

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Adani Mundra SEZ Infrastructure Pvt. Ltd., Mundra.

From : Apr'18 To : Sep'18

Sr. No.	Conditions	Compliance Status as on 30-09-2018		
24.	The construction materials and debris shall be properly stored 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.	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		
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.	out during the compliance period of Apr'18 to Sep'18. All the specific conditions provided for construction phase will be considered upon recommencement of construction activity in future.		
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.			
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	Complied. No ground water is being extracted.		
	Infrastructure Ltd. Metering of the water shall be done and its records shall be maintained. No ground water shall be extracted.	Fresh water requirement for Samudra township and Adani Hospital is approximately 1.2 MLD during compliance period which is sourced through Gujarat Water Infrastructure Ltd. (GWIL) pipeline from		



Sr. No.	Conditions	Compliance Status as on 30-09-2018				
		Narmada water supply and APSEZ desalination plant No ground water is being extracted.			tion plant.	
		Record maintained for quantity of water usage during the period Apr'18 to Sep'18 is attached as Annexure – 1.				
29.	The total sewage generation from the proposed social infrastructure project shall not exceed 7.2 MLD.	Complied.			ni Hospital. was 0.73 I sewage is	
		to Sep'18, is a	ttached a	is Annexur	e – 1.	-
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.	II Complied. e) STP having capacity of 2.5 MLD is constructed operated in township area. Treated sewage is ut for horticulture purposes after achieving disch norms of GPCB. e d One STP having capacity of 30 KLD is constru		e is utilized discharge onstructed is utilized er is being MoEF&CC Laboratory		
		Locations: 02 Parameters	Unit	Min	Max	Perm.
		ρH		7.02	8.09	Limit ^{\$} 6.5 – 8.5
		TSS	mg/L	10	28	100
		BOD (3 Days @ 27 °C)	mg/L	6	19	30
		Residual Chlorine	ppm	0.5	0.8	Min. 0.5
		Fecal Coliform	MPN/ 100ml	7.02	8.09	< 1000
				\$ a :	s per CC&A gr	anted by GPCB



Sr. No.	Conditions	Compliance Status as on 30-09-2018
		Please refer Annexure – 2 for detailed analysis reports. Approx. INR 12.5 Lakh is spent for all environmental monitoring activities during the period Apr'18 to Sep'18.
		GPCB is also doing sampling and analysis of treated water during their routine visit and report of the same is attached as Annexure – 3 .
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	Complied. At present one STP of 2.5 MLD is installed on one side of Bhukhi river for Samudra Township and one STP of 30 KLD is installed on other side of Bhukhi
	on the other side of the Bhukhi River passing through the social infrastructure project. Hence no any cross drainage civil work shall be carried out.	river for Adani Hospital. 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 Apr'18 to Sep'18 approx. 0.72 MLD treated water was 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.	water was 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	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



From : Apr'18 To : Sep'18

Sr. No.	Conditions	Compliance Status as on 30-09-2018		
	submitted shall be implemented. Before recharging the rain water, pre-treatment must be done to remove suspended matter.	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 		
		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 490.56 MT of food and organic waste was converted to manure during financial year of 2018-19 (Till Sep'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 1660 kg of bio medical waste was disposed to Common Bio Medical Waste Treatment facility during financial year of 2018-19 (Till Sep'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,	Point Noted. No hazardous waste was generated during the compliance period of Apr'18 to Sep'18.		
30	Handling & Transboundary Movement) Rules 2008, as may be amended from time to time.	lf any hazardous waste generation in future, it will be dispose through authorised agency only as per Hazardous Waste Rules – 2016. Complied.		
39.	54,600 sq.m. area shall be	complied.		



Sr. No.	Conditions	Compliance Status as on 30-09-2018		
	earmarked for the parking	Construction work for the project is partially		
	purpose as proposed. The area	completed.		
	earmarked for the parking shall			
	be used for parking only. No	Entire parking area is earmarked for parking as per		
	other activity shall be permitted	National Building Code requirement within township		
40.	in this area. Necessary signage including	premises. This parking is used for said purpose only. Complied.		
40.	Necessary signage including continuous display of status of	complied.		
	parking availability at entry, exit	Project is under development and area is earmarked		
	and all other appropriate places	for parking area as per National Building Code		
	shall be provided which should	requirement. Trained security guards are deputed		
	have appropriate size of letters	round the clock to guide/help for entry, exit and		
	and shall be visible from the at	parking. Continuous display regarding status of		
	least 50 meter distance from the adjacent road.	parking availability will be installed once project is in full-fledged operation.		
41.	No public space shall be used or	Complied.		
	blocked for the parking and the	Adequate parking area has been provided as per		
	trained staff shall be deployed to	National Building Code. Trained security guards are		
	guide the visitors for parking and	available round the clock to guide/help for entry, exit		
	helping the senior citizens and	and parking to senior citizens and physically		
10	physically challenged people	challenged people.		
42.	Traffic congestion near the entry and exit points from the roads	Complied. Separate entry and exits have been provided at main		
	adjoining the proposed project	gate with architectural divider for proper traffic		
	site must be avoided.	management. Appropriate arrangements are made		
		for emergency situations.		
43.	Common utilities like drinking	Complied.		
	water facility, toilets etc shall be	Common utilities like drinking water facility, toilets		
	provided on each floor with adequate signage thereof.	etc. are provided at Adani Hospital and commercial building with adequate distance between drinking		
	Adequate distance shall be	water & toilet facilities.		
	maintained between the drinking			
	water and toilet blocks.			
44.	The green belt shall be	Complied.		
	developed in 50 Hectares area in	AMSIDI has developed E7.30 has appared as an article		
	terms of peripheral green belt around the project site, road side	AMSIPL has developed 53.39 ha area as green belt with plantation of 56690 saplings in AMSIPL		
	plantation and green belt on	premises. The open spaces inside the social		
	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	area as greenbelt with plantation more than 8.0 Lacs		
	infrastructure project shall be	saplings within the APSEZ area. Details of the green		



Sr. No.	Conditions	Compliance Status as on 30-09-2018			
	suitably landscape and covered with vegetation of indigenous variety.	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 2018-19 (Till Sep'18) is INR 299 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 and passages in addition to solar water heating, if any.	Complied. Solar power system of 1.5 MW at roof top of residential blocks of Samudra Township and 69 KW at Adani Hospital has been installed and commissioned. Information has been already submitted to MoEF&CC along with Half Yearly Compliance Report Apr'16 to Sep'16.			
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 out. Noise (once in a month) monitoring is being carried out by NABL and MoEF&CC accredited agency namely M/s. Pollucon Laboratory Pvt. Ltd. Summary of the same for duration of Apr'18 to Sep'18 is mentioned below. Total Sampling Locations & Frequency: 2 Nos. (Monthly)			
		Noise Unit Min Max Perm. Limit ^{\$}			
		Day Time dB(A) 52.1 74.1 75			
		Night Time dB(A) 49.2 68.4 70 * as per NAAQ standards, 2009			
		Please refer Annexure – 2 for detailed analysis			



Sr. No.	Conditions		Compliance Status as on 30-09-2018			
		reports. Approx. INR 12.5 Lakh is spent for all environmental monitoring activities during the period Apr'18 to Sep'18.				
48.	The project proponent shall install the electric appliances, which are energy efficient and meeting with the Bureau of Energy Efficiency norms, wherever applicable.	Energ Sens build elect	Complied. Energy Conservation through Installation of Motion Sensor (Occu switch) & AC Temp. Controls in buildings are provided. AMSIPL has installed the electric appliances which meets the Energy Efficiency norms.			
49.			Complied. Energy audit is carried our once in a three years. audit was carried out on 21.01.2017 by M/s. M			
			Energy Saving Area	Proposed Implementation Action Plan 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 replacing Recirculation Pump with New High efficient pump	The replacement pump will be done on expiry of their useful life.		
		3	Energy Saving by Suction Cleaning in Raw sewage water pump 1	We will start the same by FY 2018-19 in the case of complete faulty condition.		
		4	Replacement of 70 W MH with 21 W LED in parking lights	The replacement 70 W MH with 21W LED will be done on expiry of their useful life.		
		5	Replacement of conventional ceiling fans with energy efficient fans	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.		



Sr. No.	Conditions	Compliance Status as on 30-09-2018
50.	The roof should meet regulatory requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirements.	Complied. Energy Conservation Building Code is considered during the development of buildings.
51.	Use of glass shall be minimal to reduce the electricity consumption and load on air- conditioning.	Complied. Minimal glass is used in air conditioning areas to reduce electricity consumption and load on air- conditioning.
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.



Sr.	Conditions	Compliance Status as on 30-09-2018							
No.		30-09-2018 Complied.							
54.	Necessary emergency lighting system along with emergency power back up system shall be provided. In addition, emergency	Power is supplied through M/s MPSEZ Utilitie Private Limited to the project site.							
	public address system arrangement and signage for emergency exit route shall be provided on each floor.	Power failure is the rarest situation in the area and in case of such emergency, there is provision of 125 KVA D.G. set at Samudra Township and 500 KVA D.G. set at Adani Hospital.							
		Public address system is available with the security staff in the vicinity.							
		Emergency contact is display each block as belowSecurity control8980048877							
		Township Security control 8980015046							
		Medical Adani hospital 2838-619555 reception							
		Medical Emergency Number 2838-619667							
		Medical Emergency mobile 7574848413 Number							
		Fire control room- 2838-255801							
55.	Necessary auto glow, signage at	Fire control room mob.9879114996Complied.							
	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. Photographs showing the emergency signages are attached as Annexure – 6 .							
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. Awareness session was carried out for home fire safety awareness at Samudra Township & pasting							



Sr. No.	Conditions	Compliance Status as on 30-09-2018								
		of LPG fire safety stickers. Total 734 families of Samudra Township were educated regarding LPG fire safety and LPG fire safety stickers pasted in their homes. Photographs showing the same are attached as Annexure – 7 .								
57.	Ozone Depleting Substance (Regulation and Control) rules shall be followed while designing the air conditioning system of the project.	Complied. Ozone Deplet and is mainta Apr'18 to Sep ozone friendly	ained duri '18. New	ng the c gas bein	ompliance	e period of				
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.	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 was submitted along with last compliance report for the period Oct'17 to Mar'18. And there is no further change.								
		Total Samplin Parameter	Unit	Мах	Min	Perm. Limit ^{\$}				
		PM ₁₀	µg/m³	80.62	42.61	100				
		PM _{2.5}	µg/m ³	48.29	15.54	60				
		SO ₂	µg/m ³	21.17	5.66	80				
		NO ₂	µg/m³	42.56	15.31	80				
		Noise	Unit	Max	Min	Perm. Limit				
		Day Time	dB(A)	74.1	52.1	75				
		Night Time	dB(A)	68.4 \$ as n	49.2	70 ndards, 2009				
		Please refer reports. Appi		e – 2 fo	or detaile	d analysis				



Sr. No.	Conditions	Compliance Status as on 30-09-2018
		environmental monitoring activities during the period Apr'18 to Sep'18.
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 people are allowed to use the social infrastructures like hospital and school. Total 5,741 patients including OPD (Out Patient Department) as well IPD (In-Patient Department) from nearby villages were treated in the Hospital during this compliance period. Approx. INR 45 Lakh worth of free medical services given to nearby villagers during F.Y. 2018-19 (Till Sep'18).
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 any.	Point noted.
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.	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.



Sr. No.	Conditions	Compliance Status as on 30-09-2018
	The funds so provided shall not be diverted for any other purpose.	Budget for environmental management measures (including horticulture) for the FY 2018-19 is to the tune of INR 1080 lakh. Out of which, Approx. INR 516 lakh are spent during the FY 2018-19 (Till Sep'18). Detailed breakup of the expenditures is attached as Annexure – 8 .
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 1 st June and 1 st December of each calendar year.	Complied.Compliance report of EC conditions is uploaded regularly. Last compliance report including results of monitoring data for the period of Oct'17 to Mar'18 was submitted to Regional Office of MoEF&CC @ Bhopal, Zonal Office of CPCB @ Baroda, GPCB @ Gandhinagar & Gandhidham and SEIAA, Gandhinagar vide our letter dated 01.05.2018. Copy of the same is also available on our web site https://www.adaniports.com/ports-downloads.A soft copy of the same was also submitted through e-mail on 12.06.2018 to all the authorities. Please refer below for the details regarding past six compliance submissions.Sr. no.Compliance periodDate of submission 30.11.2015
		1 Apr'15 to Sep'15 30.11.2015 2 Oct'15 to Mar"16 30.05.2016



Sr. No.	Conditions	Compliance Status as on 30-09-2018
		3 Apr'16 to Sep'16 01.12.2016
		4 Oct'16 to Mar'17 30.05.2017
		5 Apr'17 to Sep'17 01.12.2017
		6 Oct'17 to Mar'18 29.05.2018
65.	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Point noted.
66.	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 the project.	Complied
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. Please refer Condition No. 64 for further details.
69.	This environmental clearance is	Point noted.
	valid for five years from the date of issue.	
	Additional condition – (ame	ndment to Environment Clearance Order No.



Sr. No.	Conditions	Compliance Status as on 30-09-2018
	SEIAA/GUJ/EC/8(b)/44/2010 date	ed 20 February 2010
	The applicant shall carry out comparative carbon footprint	Complied.
	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.	

Annexure – 1

adani

ANNEXURE - 1

Water Consumption and Wastewater Generation Details for AMSIPL (Apr'18 to Sep'18)

Month	Water Consumption, KL STP Water Inlet, KL		STP Water Outlet, KL
Apr'18	42853	23796	25640
May'18	37956	22666	23747
June'18	37587	20630	20424
July'18	36970	19814	17705
Aug'18	32963	22666	22075
Sep'18	30600	23725	24796
Total	2,18,929	1,33,297	1,34,387

Note:

1. Treated sewage water is completely reused 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:

APRIL 2018 TO SEPTEMBER 2018



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

			AMSIPL SAMUNDRA TOWNSHIP STP OUTLET								
SR. NO	TEST PARAMETERS	Unit	April-18		May-18		June-18		GPCB		
			05/04/ 2018	16/04/ 2018	01/05/ 2018	15/05/ 2018	05/06/ 2018	20/06/ 2018	Permissibl e Limit	TEST METHOD	
1	рН		7.90	7.60	7.34	7.80	7.17	7.09		IS3025(P11)83Re.02	
2	Total Suspended Solids	mg/L	17	14	24	13	16	18	100	IS3025(P17)84Re.02	
3	BOD (3 days @ 270 C)	mg/L	12	16	18	14	8.0	13	30	IS 3025 (P44)1993Re.03Editi on2.1	
4	Fecal Coliform	MPN/ 100 mL	540	430	430	350	350	340	< 1000	APHA (22ndEdi) 9221 C&E	

			AMSIPL SAMUNDRA TOWNSHIP STP OUTLET								
SR. NO	TEST PARAMETERS	Unit	July-18		August-18		September-18		GPCB		
			10/07/ 2018	23/07/ 2018	04/08/ 2018		06/09/ 2018	18/09/ 2018	Permissible Limit	TEST METHOD	
1	рН		7.96	7.35	7.93		7.35	7.32		IS3025(P11)83Re.02	
2	Total Suspended Solids	mg/L	28	22	16		23	20	100	IS3025(P17)84Re.02	
3	BOD (3 days @ 270 C)	mg/L	14	18	18		16	14	30	IS 3025 (P44)1993Re.03Editi on2.1	
4	Fecal Coliform	MPN/ 100 mL	550	450	400		550	450	< 1000	APHA (22ndEdi) 9221 C&E	

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H. T. Shah

Lab Manager



Dr. Arun Bajpai



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				ADANI HOSPITAL STP OUTLET								
SR. NO	TEST PARAMETERS	Unit	Apr i 04/04/ 2018	il- 18 17/04/ 2018	May 01/05/ 2018	/-18 15/05/ 2018	June 05/06/ 2018	2-18 20/06/ 2018	GPCB Permissible Limit	TEST METHOD		
1	рН		7.34	7.40	7.08	7.18	7.02	7.25		IS3025(P11)83Re.02		
2	Total Suspended Solids	mg/ L	23	24	16	18	14	24	100	IS3025(P17)84Re.02		
3	BOD (3 days @ 270 C)	mg/ L	14	18	10	19	6.0	10	30	IS 3025 (P44)1993Re.03Editi on2.1		
4	Fecal Coliform	MPN/ 100 mL	920	550	350	550	300	550	< 1000	APHA (22ndEdi) 9221 C&E		

*Below Detection limit

			ADANI HOSPITAL STP OUTLET								
SR. NO	TEST PARAMETERS	Unit	July 10/07/ 2018	-18 23/07/ 2018	Augu 04/08/ 2018	st-18 14/08/ 2018	Septem 06/09/ 2018	18/09/ 2018	GPCB Permissible Limit	TEST METHOD	
1	рН		8.09	7.18	7.34	7.28	7.25	7.04		IS3025(P11)83Re.02	
2	Total Suspended Solids	mg/L	10	18	23	14	13	18	100	IS3025(P17)84Re.02	
3	BOD (3 days @ 270 C)	mg/L	8.0	14	16	8	12.0	6	30	IS 3025 (P44)1993Re.03Editi on2.1	
4	Fecal Coliform	MPN/ 100 mL	550	450	400	550	450	350	< 1000	APHA (22ndEdi) 9221 C&E	

*Below Detection limit

to-

H. T. Shah

Lab Manager



Dr. Arun Bajpai Lab Manager (Q) Environmental Auditors, Consultants & Analysts.

Cleaner Production / Waste Minimization Facilitator

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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	04/04/2018	72.62	45.21	21.17	37.32	
2	07/04/2018	80.62	48.29	15.18	42.56	
3	11/04/2018	64.12	34.57	19.84	26.67	
4	14/04/2018	49.67	17.41	8.88	27.89	
5	18/04/2018	60.40	30.42	10.39	20.30	
6	21/04/2018	45.58	18.34	14.22	29.15	
7	25/04/2018	56.31	20.82	7.91	28.37	
8	28/04/2018	68.09	32.41	12.47	19.42	
9	02/05/2018	77.64	42.55	13.44	36.93	
10	05/05/2018	53.46	22.11	8.33	17.59	
11	09/05/2018	74.66	29.88	18.30	33.73	
12	12/05/2018	58.66	25.72	11.64	19.67	
13	16/05/2018	68.40	36.73	17.47	24.58	
14	19/05/2018	55.38	24.64	15.31	23.42	
15	23/05/2018	48.62	19.66	12.33	32.12	
16	26/05/2018	62.57	28.76	9.52	20.32	
17	30/05/2018	73.42	40.64	7.22	15.83	
18	02/06/2018	60.34	44.63	8.51	17.65	
19	06/06/2018	58.66	25.43	10.24	20.31	
20	09/06/2018	79.38	41.22	19.23	28.28	
21	13/06/2018	65.86	27.51	16.54	25.44	
22	16/06/2018	54.26	30.38	12.61	32.41	
23	20/06/2018	76.28	33.62	20.33	37.54	
24	23/06/2018	68.83	29.46	9.55	23.64	
25	27/06/2018	70.39	47.21	14.19	41.24	
26	30/06/2018	52.65	21.57	11.58	24.61	
27	04/07/2018	73.61	32.41	13.63	22.46	
28	07/07/2018	53.83	28.46	18.47	18.35	
29	11/07/2018	61.89	23.44	15.30	23.45	
30	14/07/2018	70.26	41.76	17.49	26.32	

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H. T. Shah

Lab Manager



Dr. Arun Bajpai



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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	18/07/2018	49.24	19.86	11.28	28.93		
32	21/07/2018	74.29	44.21	14.61	36.75		
33	25/07/2018	64.58	27.79	12.83	31.88		
34	28/07/2018	56.25	25.56	7.46	15.64		
35	01/08/2018	68.65	30.38	14.32	34.26		
36	04/08/2018	70.63	37.81	16.84	40.23		
37	08/08/2018	62.45	26.68	6.45	28.23		
38	11/08/2018	77.64	32.45	13.64	23.62		
39	15/08/2018	51.60	24.48	17.38	20.71		
40	18/08/2018	42.67	16.46	5.66	16.61		
41	22/08/2018	78.69	33.53	19.46	29.28		
42	29/08/2018	52.71	25.68	11.41	19.25		
43	01/09/2018	60.34	36.57	15.52	25.67		
44	05/09/2018	57.61	27.63	19.51	23.67		
45	08/09/2018	76.28	33.33	17.55	38.45		
46	12/09/2018	69.27	30.42	7.68	31.66		
47	15/09/2018	72.31	26.59	14.25	36.25		
48	19/09/2018	55.32	22.44	12.34	28.48		
49	22/09/2018	47.56	18.24	6.54	19.32		
50	26/09/2018	52.40	28.34	11.35	35.76		
51	29/09/2018	71.25	40.81	13.25	29.47		
	TEST METHOD	IS:5182(Part 23):Gravimetric CPCB - Method (Vol.I,May- 2011)	Gravimetric- CPCB - Method (Vol.I,May- 2011)	IS:5182(Part II):Improved West and Gaeke	IS:5182(Part VI):Modified Jacob & Hochheiser (NaOH- NaAsO2)		

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H. T. Shah

Lab Manager



Dr. Arun Bajpai Lab Manager (Q)

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RESULTS OF AMBIENT AIR QUALITY MONITORING

	SAMUDRA TOWNSHIP CUSTOMER 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		
1	04/04/2018	52.60	19.54	17.65	28.49		
2	07/04/2018	73.60	33.40	13.59	33.36		
3	11/04/2018	59.32	27.54	10.46	38.57		
4	14/04/2018	67.55	23.62	16.90	22.35		
5	18/04/2018	70.58	39.29	12.52	24.59		
6	21/04/2018	45.58	18.34	14.22	29.15		
7	25/04/2018	64.28	30.34	11.27	21.48		
8	28/04/2018	74.45	40.36	7.22	30.46		
9	02/05/2018	69.67	37.56	10.68	29.67		
10	05/05/2018	70.21	31.21	14.24	20.47		
11	09/05/2018	54.66	26.35	15.42	25.66		
12	12/05/2018	62.65	27.54	18.33	27.24		
13	16/05/2018	74.33	40.24	13.45	33.45		
14	19/05/2018	50.24	21.85	19.58	26.87		
15	23/05/2018	43.28	15.54	16.18	28.42		
16	26/05/2018	72.51	25.40	12.61	22.53		
17	30/05/2018	67.25	36.28	9.55	19.42		
18	02/06/2018	72.57	39.54	18.51	22.68		
19	06/06/2018	65.80	32.37	16.32	26.57		
20	09/06/2018	75.72	45.60	13.58	36.45		
21	13/06/2018	53.69	23.62	10.50	30.52		
22	16/06/2018	68.76	26.43	9.62	24.57		
23	20/06/2018	71.55	29.64	15.76	28.35		
24	23/06/2018	58.41	22.47	14.34	32.34		
25	27/06/2018	63.25	40.82	11.23	29.57		
26	30/06/2018	47.21	17.56	8.57	20.46		
27	04/07/2018	67.25	28.53	7.67	18.71		
28	07/07/2018	59.26	31.54	15.25	24.39		
29	11/07/2018	49.39	18.43	9.54	28.49		
30	14/07/2018	62.47	34.55	13.24	33.52		

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H. T. Shah

Lab Manager



Dr. Arun Bajpai Lab Manager (Q)

ABORATORIES PVT. LTD

Recognised by MoEF. New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 SAMUDRA TOWNSHIP CUSTOMER CARE Particulate Particulate Sulphur Oxides of Date of Sr.No. Matter (PM₁₀) Matter (PM 2.5) Dioxide (SO₂) Nitrogen (NO₂) Sampling µg/m3 µg/m3 µg/m3 $\mu g/m3$ 18/07/2018 42.61 22.72 31 16.37 8.40 32 21/07/2018 66.22 41.52 10.58 27.51 33 25/07/2018 52.76 24.83 16.55 26.43 34 28/07/2018 60.53 29.44 14.22 20.55 35 01/08/2018 57.38 27.54 17.66 29.64 04/08/2018 66.46 36.32 31.25 36 11.60 37 08/08/2018 53.63 31.38 13.40 25.32 38 11/08/2018 69.43 29.60 10.61 20.47 39 15/08/2018 46.37 21.52 14.42 28.32 40 18/08/2018 48.36 19.50 8.60 19.33 41 22/08/2018 73.36 26.30 12.73 36.66 42 29/08/2018 49.27 22.47 6.52 15.31 43 01/09/2018 66.52 32.53 13.73 22.19 44 05/09/2018 50.36 23.46 16.56 30.68 45 08/09/2018 68.34 30.63 19.40 35.34 46 12/09/2018 59.68 26.43 9.69 28.32 47 15/09/2018 77.66 42.63 12.68 32.56 48 19/09/2018 62.83 28.65 14.36 21.55 49 22/09/2018 52.60 21.69 10.25 25.70 7.23 50 26/09/2018 60.23 24.70 17.64 51 29/09/2018 79.23 43.79 11.54 19.62 IS:5182(Part IS:5182(Part Gravimetric- CPCB -IS:5182(Part 23):Gravimetric CPCB -VI):Modified Jacob & **TEST METHOD** Method (Vol.I,May-II):Improved West and Method (Vol.I,May-Hochheiser (NaOH-2011) Gaeke 2Ò11) NaAsO2)

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H. T. Shah

Lab Manager



Dr. Arun Bajpai Lab Manager (Q)

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RESULT NOISE LEVEL MONITORING

Result of Noise level monitoring [Day Time]

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

Result of Noise level monitoring [Night Time]

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

to-

H. T. Shah

Lab Manager



Dr. Arun Bajpai

ABORATORIES PVT. LTD.

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Result of Noise level monitoring [Day Time]

	Name of Location		SAMUNE	RA TOWNSH	IP CUSTOM	ER CARE		
SR. NO.	Name of Location	Result [Leq dB(A)]						
nor	Sampling Date & Time	04/04/2018	09/05/2018	27/06/2018	25/07/2018	08/08/2018	05/09/2018	
1	6:00-7:00	60.4	55.1	58.4	64.2	54.5	52.4	
2	7:00-8:00	62.4	60.4	60.1	60.3	59.5	60.4	
3	8:00-9:00	59.4	61.8	65.1	62.5	62.4	61.9	
4	9:00-10:00	63.4	68.4	63.1	68.3	65.4	58.7	
5	10:00-11:00	68.7	67.1	64.2	60.2	68.4	68.4	
6	11:00-12:00	65.1	63.1	68.4	57.3	63.4	64.5	
7	12:00-13:00	61.4	62.4	62.4	64.2	61.5	65.1	
8	13:00-14:00	68.2	61.5	63.1	59.9	60.4	68.7	
9	14:00-15:00	65.2	60.2	68.4	61.9	68.4	69.0	
10	15:00-16:00	62.4	60.8	62.4	60.2	68.1	62.4	
11	16:00-17:00	61.8	65.1	65.1	65.3	62.5	61.4	
12	17:00-18:00	69.4	61.8	62.1	66.2	64.8	63.8	
13	18:00-19:00	65.3	68.4	63.4	65.1	66.2	59.1	
14	19:00-20:00	63.4	65.2	68.4	62.1	60.1	62.7	
15	20:00-21:00	68.7	62.8	67.4	68.4	61.6	64.8	
16	21:00-22:00	65.1	67.1	62.4	67.3	62.4	61.9	
I	Day Time Limit*			75 Leo	dB(A)			

Result of Noise level monitoring [Night Time]

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

D

H. T. Shah

Lab Manager



Dr. Arun Bajpai



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

			26/04/2018	
SR.			Adani Hospital	
NO.		Unit –	D.G. Set* (500 KVA)	Test Method
1	Particulate Matter	mg/Nm ³	24.67	IS:11255 (Part-I):1985
2	Sulphur Dioxide	ppm	6.70	IS:11255 (Part-II):1985
3	Oxide of Nitrogen	ppm	37.21	IS:11255 (Part-VII):2005
4	Carbon Monoxide	mg/m3	3.94	Digital Gas Analyzer
5	Hydro Carbon NMHC	ppm	BDL*	Gas Chromatography

*DG sets are used as standby, so stack monitoring is done on quarterly basis. Results on 15 % O2 Correction when Oxygen is greater than 15 %

H. T. Shah

Lab Manager

Dr. Arun Bajpai



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

MINIMUM DETECTION LIMIT [MDL]

	Ambient Air Parameter				
Sr. No.	Test parameter	MDL			
1	Particulate Matter (PM10) (µg/m ³)	10			
2	Particulate Matter (PM 2.5) (µg/m ³)	10			
3	Sulphur Dioxide (SO ₂) (μ g/m ³)	5			
4	Oxides of Nitrogen (µg/m ³)	5			
5	Hydrogen Sulphide as H2S (µg/m ³)	6			

	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			

	Stack Parameters				
Sr.No.	Test Parameter	MDL			
1	Particulate Matter (mg/Nm ³)	10			
2	Sulphur Dioxide (ppm)	1.52			
3	Oxides of Nitrogen (ppm)	2.65			
4	Carbon Monoxide (mg/Nm ³)	0.1			
5	Haydro Carbon NMHC (ppm)	1.0			

D

H. T. Shah Lab Manager



Dr. Arun Bajpai Lab Manager (Q)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

POLLUCON LABORATORIES PVT. LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

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

for its facilities at

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

in the field of TESTING

Certificate Number

Issue Date

28/05/2017



Valid Until 27/05/2019

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

Venkateswaran N Program Director

Anil Relia Chief Executive Officer

रजिस्ट्री सं॰ डी॰ एल॰-33004/99

REGD. NO. D. L.-33004/99



EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

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No. 1357]	NEW DELHI, FRIDAY, JUNE 3, 2016/JYAISTHA 13, 1938

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 2 जून, 2016

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

उक्त अधिसूचना सं सलंन तालिका में,-

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

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

2805 GI/2016



ANALYSIS REPORT FOR WATER / WASTE WATER SAMPLE

Sample ID:236554 - Analysis Completion:22/07/2018

Health-Care Establishment (as defined in BMW Rules)- [Hospitals having total waste-water generation > 100 KLD and having incinerator] / LAB Inward : 4624

TEST REPORT

Test Report No. : 4624			Date: 2	22/07/2018
1. Name of the Customer	: Adani Mund	ra Sez Infrastructure Pvt. Ltd - 10602		
2. Address	: SURVEY NO). 141 (PART),SURVEY NO. 141 (PART	Г),VILL MUNDRA,SI	URVEY NO
	MUNDRA			
3. Nature of Sample	: REP-Repres	entative/Grab, (Insp Type : ROU-Routin	e Visit)	
4. Sample Collected By	: R.H.JIVANI	,SO		
5. Quantity of Sample Received	: 5 Ltr			
6. Code No. of the Sample	: 236554			
7. Date & Time of Collection & Inwarding	: 19/06/2018,	(1330 to 1333) & 22/06/2018		
8. Date of Start & Completion of Analysis	: 22/06/2018 &	22/07/2018		
9. Sampling Point	: Final Outlet	of STP (Samudra Township) ~ Final ou	tlet of STP(Samudra	township)
10. Flow Details (Remarks)	: Flow observe	ed		
11. Mode of Disposal	: on land for g	ardening		
12. Ultimate Receiving Body	: No generatio	n of industrial wastewater		
13. Temperature on Collection	: 30 & pH Ra	nge on pH Strip :@7-8 on pH strip		
14. Carboys Nos for	: W-1 & Colo	r & Appearance :Yellowish		
15. Water Consumption & W.W.G (KLPD)	: Ind :100.000	, Dom :2500.000 & Ind :0.000 , Dom :20	00.000	
Sr Parameter	Unit	Test Method	Range of Testing	Result

S	r Parameter	Parameter Unit Test Method		Range of Testing	Result
	pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 – 14 pH value As or	7.02
	2 Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Methoc	2 – 10000 mg/L	12
;	Fecal Coliform	MPN/100 ml	2.9221 E APHA 22nd Edition IS 1622-1981	<1.8 to >1600 MPN/10	24
4	B.O.D (3 Days 27oC)	mg/l	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed	05–50000 mg/l	8.5

Laboratory Remarks : Freeze By:682-aee_682 Dt.: 22/07/2018

Dr. S. N. Agravat, Lab Head

Field Observation :

Note :

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

BIO MEDICAL WASTE DISPOSAL LOGBOOK

	ROMED K	Total Kg.	Sign				
Date	Challan No.	Category Catego Yellow Red		CATEGORI Category Blue	White	Ng.	
		Yellow Bag	Red Bag	Blue Bag/*C.B.	* PPC		
1							
2							
3							
4			10	12	0	33 69	Q
5	00615138	17	10	1-			0
6	05	3.42	2.42	2.42	-	8.26	62
7	46055	3,41	2090				
8							
9							-
10						2.1	Q-
11	006152	85 J2	10	12	0	34 6	00-
12 13	000152	12 10			-	C L	De
13	0061534	2 0	Le	4	\bigcirc	8 19	Ner
14							
16				10	0	274	9 13
17		07 300 -	+ 10	10			20
18							
19	9						
2	0	10 0	10	12	0	37 40	10
2	1 006155	,48 13	12	4		C	J
2	2						
	3	63 4	9	9	0	22 kg	3 15
2	4 006156	202 1					

Details of Greenbelt development at APSEZ, Mundra

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



* Emergency Signageps







Home Fire Safety Awareness





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

Cost of Environmental Protection Measures

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

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