

APSEZL/EnvCell/2025-26/014

Τo,

The Inspector General of Forest / Scientist C,

Integrated Regional Office (IRO), Ministry of Environment, Forest and Climate Change, Karmayogi Bhawan, Block-3, F-2 Wing, 5th Floor, Near CH-3 Circle, Sector – 10A Gandhinagar – 382010.

E-mail: eccompliance-guj@gov.in, iro.gandhingr-mefcc@gov.in

Sub : Half yearly Compliance report of Environment Clearance of "Single Point Mooring (SPM), Crude

Oil Terminal (COT) and connecting pipes at Mundra Port, District Kachchh by M/s. Adani Ports &

Date: 24.05.2025

SEZ Limited"

Ref : Environment clearance granted to M/s Adani Ports & SEZ Ltd. vide letter dated 21st July 2004

bearing no. J-16011/30/2003-IA-III.

Dear Sir,

Please refer to the above cited reference for the said subject matter. In connection to the same, it is to state that copy of the compliance report for the Environmental and CRZ Clearance for the period of October 2024 to March 2025 is being duly uploaded on the Parivesh Portal.

Additionally, a soft copy of the same is being submitted through soft copy (e-mail communication).

Kindly consider the above submission and acknowledge.

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



Bhagwat Swaroop Sharma Head – Environment Mundra & Tuna Port

Encl: As above

Copy to:

- 1) The Director (IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003.
- The Zonal Officer, Regional Office, CPCB Western Region, Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara – 390023.
- 3) The Member Secretary, GPCB Head Office, Paryavaran Bhavan, Sector 10 A, Gandhi Nagar 382010.
- 4) The Director, Forests & Environment Department, Block 14, 8th floor, Sachivalaya, Gandhi Nagar 382010
- 5) The Regional Officer, Regional Office GPCB (Kutch-East), Gandhidham 370201.

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Environmental Clearance Compliance Report

of



SPM, Crude Oil Terminal and Connecting Pipes

at Mundra Port, Dist. Kutch, Gujarat of Adani Ports and SEZ Limited

Period:

October-2024 to March-2025



From : Oct'24 To : Mar'25

Status of the conditions stipulated in Environment Clearance under CRZ notification

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Status of the conditions stipulated in Environment Clearance under CRZ notification

Chronology of company name change from **M/s**. **Gujarat Adani Port Limited** to **M/s**. **Adani Ports and Special Economic Zone Ltd**. was submitted along with half yearly EC Compliance report for the period Apr'21 to Sep'21.



From : Oct'24
To : Mar'25

Status of the conditions stipulated in Environment Clearance under CRZ notification

Half yearly Compliance report of Environment and CRZ Clearance of "Single Point Mooring (SPM), Crude Oil Terminal (COT) and connecting pipes at Mundra Port, District Kutch issued by MoEF vide letter no. J-16011/30/2003-IA.III dated 21st July 2004.

Sr. No.	Conditions	Compliance Status as on 31-03-2025
	Specific Condition	
1.	Mangrove afforestation in 25 ha of area, suitably	Complied.
	identified in	25 hectare of mangrove plantation with a cost of 10 Lakh
	consultation with State Forest Department. The GAPL shall bear the cost	is already completed near railway yard in consultation with Dr. Maity, Mangrove consultant of India.
	of the said land as well as the cost of the	There are no salt works within the project area.
	plantation of mangroves and its sustenance and implant within 6 months	It may be noted that to enhance the marine biodiversity, till Mar'25 APSEZ has carried out mangrove afforestation in 4140 ha. Area across the coast of Gujarat. Total
	from the date of clearance of this letter.	expenditure for the same till date is INR 1592.8 lakh.
	Further, it shall be ensured that mangroves in the vicinity of the salt	Details on Mangroves afforestation & Green belt development carried out by APSEZ till date is annexed as Annexure – 1 .
	works are not affected due to the project.	Other than this Adani Foundation – CSR Arm of Adani Group at Mundra-Kutch has initiated multi-species plantation of mangroves in Luni village in association with M/s. GUIDE, Gujarat. During 2018-2019 (Phase-I) multi-species mangrove plantation was carried out in 10 ha, during Phase-II (2019-2020) it was 02 ha and during Phase III (2020-2021) it is 01 ha. During FY 2021-22, 03 ha area coastal stretches have been planted with species. During earlier compliance period FY 2022-23, 04 Hector plantation has been planted with various species. Total 20 Ha. multi-species mangrove plantation has been carried out till March-23 association with M/s. GUIDE, Gujarat.
		continually monitored. Notably, these forests have evolved into a thriving habitat for various marine and migratory bird species, enriching the local ecosystem.



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Sr.	A !!! !	Compliance Status as on
No.	Conditions	31-03-2025
		Please refer attached Annexure – 2 for CSR activity report
		carried out by Adani Foundation.
2.	In addition to the	Complied.
	mangrove plantation, GAPL should also take	During the course of development of the project group
	up massive green belt	During the course of development of the project, green belt was developed in 8.58 Hectares of land. Total 8981
	developments in 30	trees were planted with the density of 1047 trees per
	acres of land in and	hectare within port premises at a cost of Rs. 25 Lakh.
	around the project in	
	consultation with the	This plantation was done in consultation with Gujarat
	Forest Department.	Ecological Commission (as they are one of the authorized
	Detailed plan indicating the area identified for	agencies of Dept. of Forest & Env. Dept., Govt. of Gujarat).
	the mangrove plantation	In addition to this, various activities on green belt
	as indicated at (i) above	development and mangrove plantation are being carried
	and for green belt	out on regular basis by horticulture department.
	development along with	
	the financial outplay	Budget for Horticulture Department for the FY 2024-25 is
	shall be provided to this ministry within 6 months	to the tune of INR 831 lakh. Out of which, Approx. INR 570 lakh has spent during the year FY 2024-25.
	from the date of receipt	lakir has spent during the year FT 2024-23.
	of this letter.	
		It may be noted that APSEZ has developed 458 ha. area
		as greenbelt with plantation of more than 9.06 Lacs
		saplings within the APSEZ area. Details on mangroves
		afforestation & Green belt development carried out by APSEZ till date is annexed as Annexure – 1 .
3.	No dredging activity	Complied.
	shall be carried out.	
		Construction activities are completed & project is in
		operation stage. SPM is approximately 6.3 km inside the
		open sea from the shore where 30 m of draft is naturally
4.	No ground water should	available. Hence no dredging is required. Complied.
	be tapped at the project	Compiled.
	site / within CRZ area.	No ground water is tapped at the project site. Entire water
		requirement is fulfilled through APSEZ Desal Water and
		GWIL.
5.	Adequate facilities as	Complied.
	listed in National Oil spill	Oil soill contingency classis in class to headle Ties 1 level
	Disaster Contingency	Oil spill contingency plan is in place to handle Tier 1 level



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Sr. No.	Conditions	Compliance Status as on 31-03-2025
	Plan for the Mundra Port which includes firefighting equipment of 1200 cum/hr. spray	oil spills considering different accident scenarios, and the vulnerable areas are identified and mitigation plan is prepared.
	capacity with 2 monitor fitted with the dolphin 2, 3, 4 and 5 oil spill dispersant foam liquid etc. should be maintained and put into	Oil spill contingency response plan is being updated on regular basis and the same was last updated on 30.07.2022 is in place and implemented. The Oil spill contingency response plan was submitted along with EC Compliance report for the period Apr'22 to Sep'22.
	operation immediately in case of oil spills.	For responding to oil spill, the Indian Coast Guard has developed the National Oil Spill Disaster Contingency Plan NOSDCP which has the approval of the Committee of Secretaries and has been in operation since 1996. Oil spill contingency response plan (OSCRP) prepared by APSEZ is in accordance with the NOSDCP.
		Latest Regional Level Pollution Response exercise "SWACHCHH SAMUDRA-NW 2024" was carried out by Indian Coast Guard on 14th - 15th OCT 2024 at Off Vadinar, Gujarat. All participants from various Oil Handling Agencies and Stakeholders (M/S Adani Port & SEZ, Mundra, Indian Oil Corporation LTD, Jamnagar, M/S Nayara Energy LTD VOTL, Vadinar, M/S Reliance Industries LTD, Sikka Jamnagar, M/S Essar Bulk Terminal, Salaya) were participated in this exercise. Details of the same is attached Annexure – 3 .
		Mock drills are conducted regularly by APSEZ. Last Oil Spill Mock drill was conducted on 06.02.2025. The updated Oil Spill Mock Drill report is enclosed as Annexure - 4 .
		Based on the oil spill modeling study, it has been observed that crude oil spill of 700 tons (Tier-I) will spread over an area having radius of around 400 m within 4hr. APSEZ already has facilities for combating a Tier-1 spill. Shoreline Resources available with APSEZ, for deployment during shoreline cleanup/ emergent situation:
		Item Quantity



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Sr. No.	Conditions	Compliance Status as on 31-03-2025		
		Oil Spill Dispersants	5000 ltr.	
		Absorbent pads	2000 Nos.	
		Portable dispersant storage tank:	1 no.	
		1000 ltr. Capacity		
		Portable pumps	2 nos.	
		Oil Containment Boom-Length 2000	2000 m	
		metres, Height -1500 mm, Draft-		
		900mm, Free Board-600mm	4.01	
		Skimmer-KOMARA 15 Duplex	4 Nos.	
		Skimmer System with floating IMP 6		
		Pump.	3 Nos.	
		12.5T Flexible Floating Storage Tank (PUA).	J NOS.	
		Lamor Minimax 12 m³ skimmer	2 sets	
		Lamor Side Collector system	2 Nos.	
		(Recovery Capacity 123 m³/ hr)	2 sets	
		Canadyne Fence Boom (Reel model	1 No.	
		7296/8496 with Power Pack,		
		Towing		
		bridles and Tow lines - 235 meter		
		 10 Tugs are fitted with Oil Spill Lame boom and proportionate pump to water as required. 10 Dolphin tugs are fitted with O boom and proportionate pump to water as required. The tugs are curtain and remote-controlled fire m Dolphin 11 has firefighting system of with 20 ton lifting "A" frame and divident to the equipment are being kept in water as per the stipulated requipment as per the stipulated requipment are being kept in water as per the stipulated requipment as per the stipulated	mix OSD and Sea oil Spill Dispersant mix OSD and Sea fitted with a fire nonitors. In 1200 m³/hr. along ng support facility. Working condition. In and testing is uirements. It is provided in Oil submitted during 0'22.	
6.	The duration of construction phase of	Already complied. Not applicable at pre	;5E11L.	
	the project should be	Construction activity is already complet	ed and the project	
	kept to a maximum of 8	is in operation.	. ,	



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Sr. No.	Conditions	Compliance Status as on 31-03-2025							
	months to avoid impact on marine environment and birds as suggested by NIO.								
7.	It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.	Location of SPM is unmanned (approximately 6.3		re is no					
8.	The project proponents must make necessary arrangements for disposal of solid wastes and for the treatment of effluents / liquid wastes.	No used operiod. No other t	уре о	f hazaı	rdous v	waste a	as well	as no	effluent
	It must be ensured that the effluents / liquid wastes are not discharged into the	or liquid w discharged The non-ha	d into azardo	the sea	a wate id was	r. te gen	erated	from c	n-shore
	seawater.	SPM operational activity is being handled and managas per 5R concept for environmentally sou management.			nanaged sound				
		In order to analyzed marine water quality, marine sampling (surface, bottom & sediment) is being carried out at a location nearby SPM by NABL and MoEF&CO accredited agency namely M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi. Summary of the same for duration from Oct'24 to Mar'25 is mentioned below.		carried oEF&CC ent and ame for					
		Total Sampling Locations: 09 Nos. (Frequency: Once a month)		nce a					
		Paramete r	Unit	Min	Surface Max	Avg.	Min	Bottom Max	Avg.
		рН		7.98	8.34	8.18	7.85	8.12	8.01
		BOD (3 Days @ 27 °C)	mg/ L	2.5	3.4	2.90	BDL (MDL 1.0)	BDL (MDL 1.0)	BDL (MDL 1.0)
		TSS	mg/ L	102	144	124.0 2	80	128	101.2 4
		DO	mg/ L	6.45	7.04	6.77	6.35	6.84	6.63



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140.		Salinity ppt 35.12 36.34 35.75 36.12 37.35 36.74
		TDS mg/ 3456 3664 3540 3518 3672 3610
		*BDL – Below Detection Limit *MDL – Minimum Detection Limit
		MDL - Milling Detection Limit
		Please refer Annexure – 5 for detailed analysis reports.
		Approx. INR 17.27 Lakh is spent for all environmental
		monitoring activities during the compliance period i.e. FY 2024-25. for overall APSEZ, Mundra.
9.	The camps of labor shall	Complied. Not applicable at present.
	be kept outside the	
	Coastal Regulation Zone	Construction activities are completed and project is in
	area. Proper arrangements for	operational phase.
	cooking fuel shall be	
	made for the labor	
	during construction	
	phase so as to ensure that mangroves are not	
	cut / destroyed for this	
	purpose.	
10	Regular drills should be conducted to check the	Complied.
•	effectiveness of the on-	Disaster Management plan is in place and implemented.
	site Disaster	Updated DMP was submitted to the MoEF & CC along
	Management Plan. The	with half yearly compliance report for the period from Apr
	recommendations made in the Environmental	– 2016 to Sep – 2016 and there is no further change.
	Management Plan and	On Site Emergency Response Plan and Crisis
	Disaster Management	Management Plan updated on August-2023 is in place
	Plan, as contained in the	and implemented. The updated Onsite emergency plan -
	Environmental Impact Assessment and Risk	was submitted during the EC compliance report submission for the period Apr'23 to Sep'23.
	analysis reports of the	100 mm 101 mm 1
	project, shall be	Oil spill contingency plan is in place to handle Tier 1 level
	effectively implemented.	oil spills considering different accident scenarios, and the vulnerable areas are identified and mitigation plan is
	implemented.	prepared. The Oil spill contingency response plan
		updated on 30.07.2022 is in place and implemented.
		Please refer Compliance of Specific Condition No. 5 for
		further details.



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Sr. No.	Conditions	•	ice Status as on -03-2025
		Spill Mock drill was cond Oil Spill Mock Drill report All the recommendations	ed regularly by APSEZ. Last Oil lucted on 06.02.2025. Updated is enclosed as Annexure - 4 . If given in the report of NIO and ent Services are implemented.
		Few Marine EIA recomme	
		Temporary colonies of workforce should be located sufficiently away from the HTL with proper sanitation. Adequate arrangement of fuel supply to the workers should be made to discourage them from using mangroves for firewood.	already completed. Most of the construction labors were residing in the nearby villages where all
		As a step towards improvement in marine environment quality, mangrove afforestation of intertidal mudflats should be encouraged through adequate	25 hectare of mangrove plantation with a cost of 10 Lakh is already completed near railway yard in
		institutional support.	afforestation & Green belt development carried out by APSEZ till date is annexed as Annexure – 1.



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Sr.	0 12:1	Compliar	nce Status as on
No.	Conditions	•	-03-2025
		The prevailing traffic control management of deep-sea ships navigating through the gulf needs thorough review and introduction of state of the art VTS should be considered.	APSEZ is practicing well defined traffic control procedure. A VTS service for Gulf of Kutch is provided by the VTS Gulf of Kutch, operated by Directorate General of Lighthouses and Lightships (DGLL), Govt. of India. Marine Control of APSEZ provides traffic update to vessels in Mundra Port Limit on VHF Channel- 77. Arrival and departure information before arrival and departure respectively in Gulf of Kutch is provided to VTMS information cell through agent or by directly sending mail to vtsmanagergulfofkutch@yah oo.com and vtsgok@yahoo.com Mundra port has subscribed and taking VTMS feed from Kandla from link
			www.vts.gov.in.
		Few Tata AIG Risk Assess There should be facilities of boom, skimmer, dispersant, diving suits, firefighting equipment and excellent	sment Recommendations: 10 Dolphin tugs fitted with Oil Spill Dispersant boom and proportionate pump to mix OSD and Sea water as required; out of them 10 Dolphin Tugs are fitted with a fire curtain and remote-



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Sr.	Conditions	Compliance Status as on		
No.				
Sr. No.	The entire stretch of the pipelines shall be buried underground except at the booster pumping station, which will be properly fenced and the station would be manned round the clock. The buried lines will be protected with	In the event of oil spill contingency plan is in place to handle Tier 1 level oil spills considering different accident scenarios, and the vulnerable areas are identify oil slick patches by boats/vessels, hence it is suggested that GAPL may take help from coast guard/Navy for aerial surveillance in order to identify and monitor oil slick movement. Complied. Entire SPM pipeline is buried underground. Total pipeline length is 15.4 km including 6.3 km inside the open sea and 9.1 km on landward side. Booster pump is not provided throughout the pipeline. However, the material is transferred by using pumping system of respective vessels berthed at SPM.		
	anticorrosive coal tar based coating. The coating will be tested by	Anticorrosive 3 LPE coating is provided to the portion of onshore pipeline while offshore pipeline is also protected by concrete coating.		
	high voltage detector in accordance with prescribed standards.	For offshore pipeline, Cathodic Potential (CP) survey is being done once in three years. Last CP inspection of offshore pipeline done in Mar'24. The report of offshore pipeline, Cathodic Potential (CP) survey is attached as Annexure - 6 .		



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Sr. No.	Conditions	Compliance Status as on 31-03-2025		
		For onshore pipeline CP survey is being done by APSEZ on monthly basis as well as once in three year by . Monthly reports of CP survey for this compliance period are enclosed as Annexure – 7 .		
12.	Markers shall be installed at every 30 m to indicate the position of the line. Regular patrolling of the pipelines needs to be done. This will help in identifying any activity that have the potential to cause pipeline damage or to identify small leaks whose effects are too small to be detected by instrument.	Markers are installed at every 30 m to indicate position of pipeline. Details of the same were submitted during half yearly EC Compliance report for the period Oct'18 to Mar'19. Pressure at vessel and reception points of transfer line is being monitored during operation to ensure no leakage in pipeline. Regular patrolling of pipeline is being done by APSEZL Security Department. Following mitigation plan is followed in case of small leaks leading to spills. Activity Adequacy of Measures It is collected in deep tray in case of Disconnection (liquid discharge. Stop the supply of liquid operation) Immediately stop the supply of liquid discharge. Marine break away coupling available for control of load. Tanker discharge operation Emergency operation shut off		
		(SPM operation) (stopping the discharge)		
13.	There should be display boards at critical locations along the pipeline viz. road / rail /river crossings giving emergency instructions as well as contact details of GAPL. This will ensure prompt information regarding location of accident during any emergency.	Complied. Display boards with emergency contact detail are provided at critical locations. Photographs of the same were submitted as part of the compliance report for the period from Oct'16 to March'17 and there is no farther change.		



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Ca		Compliance Chabus as as
Sr. No.	Conditions	Compliance Status as on 31-03-2025
	Emergency Information board should contain emergency instructions in addition to contact details.	
14.	During operation phase, proper precautions should be taken to avoid any oil spills and no oily wastes shall be discharged into the water bodies.	During operation, SPM team takes responsibility and actively supervises the operation. Inspection and maintenance activities are carried out regularly for prevention of any kind of oil spill at SPM. No liquid waste are generated / discharged from the project activity. In order to analyze marine water quality, marine sampling is being carried out at a location near
15.	All conditions stipulated by the Forest and Environment Department, Government of Gujarat should be strictly implemented.	SPM. Please refer condition no 8 for further details. Complied All the conditions stipulated by Forest and Environment Department are being complied. Point wise compliance report of CRZ recommendations issued vide letter No. ENV-10-2002-124-P (Part1) dated 8 th October 2003 is enclosed as Annexure- A.
16.	All conditions stipulated in Gujarat Pollution Control Board vide their letter No. PC/NOC/381/1039 dated 8 th January, 2002 should be implemented.	Complied. Consent to Operate (CC&A) was granted by GPCB based on the compliance of conditions of the No Objection Certificate (CtE). This CC&A is renewed from time to time based on its validity. The last CC&A renewal has granted and issued by GPCB vide Order no. WH 117830 issued dated 29.03.2022 & Valid Upto 26th April, 2027. Copy of the renewed CC&A were submitted along with previous EC compliance report submission for the period Oct'21 to Mar'22.
B. (General Condition	
1	Construction of the proposed structures should be undertaken meticulously confirming to the existing Central /	Complied. Not applicable at present. Construction activities are completed & project is in operation stage. Entire SPM pipeline is buried underground. Total pipeline length is 15.4 km including
	local rules and	6.3 km inside the open sea and 9.1 km on landward sid



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	regulations. All the construction designs / drawings relating to the proposed construction activities must have approvals of the concerned State Government Department / Agencies.	Construction activities are carried out based on the approvals of the concerned state government department and prevailing laws.	
2	The project authorities should take appropriate community development and welfare measures for the villagers in the vicinity of the project site, including drinking water facilities. A separate fund should be allocated for this purpose.	APSEZ is actively working with local community around the project area and provides required support for their livelihood and other concerns through the CSR arm - Adani Foundation. Adani Foundation is working in main five persuasions as below.	
		Area Activity	
		Community Health * Mobile Heath Care Units and Rural Clinics • 7 Rural Clinics • 5 villages of Mundra & 2 village Mandvi block has benefited by rural clinic service. • Total 23799 Patients Benefitted in FY 24-25 (direct & indirect) by Mobile van and rural clinic. • Provided 52,063 medical health services. * 45602 nos. patients have been supported for operation, OPD, IPD, Medicines and labtest at Adani Hospital Mundra Pvt. Ltd.	



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Sr. No.	Conditions	Compliance Status as on 31-03-2025
		 Financial Assistance for Critical Illness Understanding the burden of lifethreatening diseases on economically weaker families, the Foundation provides financial support for patients suffering from heart, liver, kidney diseases, and cancer. In the current year alone, 45,602 patients from Mundra, Mandvi, and Anjar Blocks have received critical medical assistance at Adani Hospital, Mundra, in collaboration with Adani GK General Hospital, Bhuj. General_Health Camp It aims to make quality healthcare accessible to underserved communities by providing free consultations and basic medical services. Doctors conducted health check-ups, including blood pressure monitoring, respiratory assessments, and screening for seasonal illnesses. Patients were also provided with necessary medicines on the spot, ensuring timely treatment and care. Such camps play a vital role in promoting health awareness and addressing common health issues in rural areas where access to healthcare is limited. In the current year 1922 patients benefited though General
		 Specialty Health Camp It organizes to support focused medical care to rural communities through consultations from specialists such as gynecologists, pediatricians, orthopedists, ophthalmologists, and physicians. The primary objective is to address critical health issues among
		women and children, particularly during pregnancy, to prevent maternal and infant mortality. Additionally, Specialty Health Camps are organized promptly in response to disease outbreaks in villages, ensuring quick medical support and controlling the spread of illnesses. In



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No.	Conditions	31-03-2025
		the current year 3217 patients benefited through Specialty Health Camp.
		❖ Eye Vision Care Initiative
		This year, Adani Foundation, in collaboration with Vision Spring, has launched a comprehensive Eye Vision Care program to address uncorrected refractive errors and improve eye health in the community. The initiative focuses on students ("See to Learn"), SHG women ("See to Earn"), and APSEZ drivers ("See to Be Safe"), ensuring better education, livelihood, and road safety. It also promotes "Vision for All" across the community. It is a holistic eye care campaign starting from the process of registration to eyeglass dispensing, and cataract surgery support. In the current year 10,000 patients benefited though Eye Vision Care program.
		 Cataract-Free Mundra Initiative To combat vision loss among the elderly, the Cataract-Free Mundra campaign has screened 567 individuals at the village level. Patients identified with cataracts are referred to GK General Hospital, Bhuj, for surgery, followed by post- operative care and follow-ups. This initiative has restored vision for many senior citizens, helping them regain independence and quality of life. In the current year 68 successful cataract operations through Cataract-Free Mundra campaign.
		* Menstrual Hygiene Awareness Camps
		 Promoting health and dignity among adolescent girls and women, menstrual hygiene awareness camps are regularly organized in schools and community centers. These sessions focus on educating participants about menstrual health, hygiene practices, and breaking cultural taboos. Sanitary pads are also distributed to encourage proper menstrual care and improve overall health outcomes for women and girls.



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Sr. No.	Conditions	Compliance Status as on 31-03-2025
Sr. No.	Conditions	 Medical Services Data from April 2024 to March - 2025: Mobile Van - 11066 beneficiary Rural Clinic - 2500 beneficiary Medical Support & Dialysis - 2733 beneficiary General Health Camp - 1922 beneficiary Specialty Health Camp - 3217 beneficiary Blood Donation Camp - 2902 beneficiary Cataract Camp - 567 beneficiary Eye Vision Care - 10000 beneficiary Driver Health Check Up - 7156 beneficiary Fodder support to 24 Villages, benefiting 15005 cattle, Dry Fodder Support - 15,74,250 Kg & Green Fodder Support - 51,66,805 Kg An animal health camp was organized at Charan Samaj Wadi, Borana village, focusing on livestock care during the monsoon. Over 600 villagers received guidance from veterinary experts, and a vaccination drive targeting 25,000+cattle was launched in collaboration with the Animal Health Department of Bhuj. Sustainable Livelihood - Fisher folk, Agriculture & Women Sustainable Civelihood - Fisher folk, Agriculture & Self Help Groups in coordination with National Rural Livelihood Mission. 920+ Members Over Rs.39 Lacs Saving Amount Corpus Job Sourcing - Govt 11 Women supported for application and
		❖ Job Sourcing - Govt
		❖ Making SHG Self Reliant



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Sr. No.	Conditions	Compliance Status as on 31-03-2025
NO.		Village, by providing advanced stitching and embroidery training, the new stitching center empowers women with skills and employment. Equipped with 11 modern machines, women are producing 5,000 bags, gaining financial independence and professional confidence. • Women empowerment initiative: Adani Foundation is empowering rural women through skill training, exposure visits, and SHG formation, enabling them to achieve financial independence and entrepreneurship. • Skill Training: Stone Dust Art Training Mud Art Training Beauty & wellness Training. 100+ Local women empowered • Exposure Visit: Visit to Welspun Stitching Centre for women to learn about stitching enterprises • New SHG Formation: ○ Madhav Saheli" a Food service SHG ○ "Gopinath Saheli" a Tailoring SHG ○ "Suidhaga" a Tailoring SHG
		 On 5th March, Adani Foundation celebrated the strength and resilience of women by marking International Women's Day with 1,000 Lakhpati Didis. The event highlighted the Foundation's ongoing efforts to empower rural women through meaningful livelihood opportunities. Over 614 women have been connected with job opportunities at Adani Solar, while 850+ women entrepreneurs received support to grow their businesses. MENSTRUAL HYGIENE AWARENESS: Adani Foundation is dedicated to
		educating and empowering rural girls and women from marginalized communities about menstrual health.



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Sr.		Compliance Status as on
No.	Conditions	Compliance Status as on 31-03-2025
		We aim to break negative social stigmas around menstruation and improve their overall well-being. 61 Villages covered 8300+ School girls & women participated till now EMPOWERING FISHERFOLK COMMUNITIES THROUGH EDUCATION: PERSISTENT EFFORTS FOR FISHERMAN DEVELOPMENT: Educational Kit Support - 686 beneficiaries Fisherman Shelter Support - 273 beneficiaries Vehicle transportation Support - 1368 beneficiaries Vehicle transportation Support - 1368 beneficiaries Cycle Support to high school going students - 111 beneficiaries Scholarship Support - 648 beneficiaries Youth Employment - 494 beneficiaries Youth Employment - 494 beneficiaries Linkage with Fisheries Scheme - 195 beneficiaries Ramatotasav Community Engagement - 3534 beneficiaries Man-Days mangrove plantation - 56,523 beneficiaries
		 ❖ Scholarship Support: To uplift financially challenged communities, we extended scholarships support of Rs. 3,58,765 to 35 students, enabling them to pursue higher secondary and technical education. This support is helping break the cycle of poverty and create a brighter future for these students and their families. ❖ Vehicle Transportation Facilities:



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Sr. No.	Conditions	Compliance Status as on 31-03-2025
	Conditions	Acting as a bridge between industries and fisherfolk youth, the Adani Foundation facilitated job placements for 30 fisherfolk as RTG operators, in the HR department, and as supervisors in APSEZ companies. In the APSEZ area and colony, 45 fisherfolk youth have been offered professional painting roles. To ensure they are skilled for the role, they underwent comprehensive training in partnership with Asian Paints. This initiative has enhanced their livelihoods and provided sustainable employment opportunities. * Awareness camp on Menstrual health: A menstrual health awareness camp was organized for 200+ women from the fishing communities of Modhva and Tragadi villages. The program focused on educating them about menstrual hygiene, PCOD, and menopause management. It promoted healthy practices, offered guidance on managing related health issues, and distributed sanitary products to support their overall well-being. Potable water Distribution: Providing access of potable Drinking water Facilities to Nine fisherfolk vasahat on Daily bases, either By Water tanker or Linkage with Nearest Gram panchayat. 5000+ Fisherfolk Population are getting benefit BIOGAS PROJECT In our ongoing efforts to promote sustainable and eco-friendly farming practices, we have successfully registered 863 farmers from five different talukas in the Kutch district. Each registered farmer will receive
		financial support of ₹9,000 for the installation of biogas plants on their farms. This initiative aims to provide



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Cal		Osmalianas Chahus as as
	Conditions	
Sr. No.	Conditions	farmers with a renewable source of energy, reduce dependency on conventional fuels, and improve overall agricultural productivity. • Benefits of Biogas: • Renewable Energy Source: Biogas is a sustainable and renewable energy source that reduces dependence on fossil fuels. • Cost Savings: Farmers save on fuel expenses as biogas can be used for cooking, heating, and electricity generation. • Waste Management: Biogas plants efficiently manage agricultural waste by converting it into useful energy. • Environmental Impact: Biogas reduces greenhouse gas emissions, contributing to climate change mitigation. • Soil Health: The by-product, known as digestate, is a nutrient-rich organic fertilizer that enhances soil
		fertility. o Improved Livelihoods: Biogas provides farmers with additional income and energy security, improving their overall quality of life.
		Biogas benefit Key Highlights Total Farmer Registered - 863 Farmers Financial Support to each farmer - Rs. 9000 Geographical coverage in Kutch - 6 Talukas
		 ♣ DRIP IRRIGATION - ENHANCING LIVELIHOODS IN KUTCH: ● The Drip Irrigation Initiative by Adani Foundation promotes efficient water use in farming by providing financial support to farmers for installing drip systems. It helps conserve water, improve crop yield, and encourage sustainable agriculture in Kutch.



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			In 2024-25, Adani Foundation supported sustainable water management in Kutch by Promoting drip irrigation across 490 villages in Abdasa, Lakhpat, Mandvi, Mundra, and Nakhtrana talukas. Covering a total area of 2,074.53 hectares, the initiative benefited 1,041 farmers. This effort enhanced irrigation efficiency, boosted agricultural productivity, and contributed to water conservation and eco-friendly farming practices in the region.
			 Natural Farming As part of our commitment to sustainable agriculture, we have focused on promoting natural farming practices to conserve soil health and enhance environmental sustainability. Till Date 2,275 Farmers trained in Natural Farming 226 Farmers successfully transformed to 100% Natural Farming 857 Farmers linked with GOG to support cattle welfare scheme
			 Green Carnival Organized an annual Green Carnival, providing farmers with a dedicated marketplace to sell their organic produce directly to consumers. This event is hosted by our employee company and attracts many buyers interested in organic products.
			 Sales Achievements This year, the Green Carnival was a resounding success, with farmers selling a total of 16,241 kg of organically grown vegetables and fruits at the event. Achieved Rs. 6,49,640+ Total revenue.
		Education	 Enriched reading corners to develop reading habits Library books were issued twice a month, and a dedicated reading corner was established in each school to enhance accessibility. Additionally, over



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Sr		Compliance Status as on
No.	Conditions	31-03-2025
Sr. No.	Conditions	1,000 books and various magazines were provided 2,09,640 Books issued between students Progressive Students: Strengthening foundational literacy, numeracy and skills A total of 6,540 students from Class 3 to 7 were assessed in reading, writing, and math skills, with 2399 students identified as needing additional support. Targeted interventions helped 1,520 students successfully integrate into regular academic programs
		Utthan's Impact: A Data-Driven Overview of Utthan Initiatives
		Distribution of sports kits, music kits, TLM kits, and stationery kits. to 12K+ Students
		Value education is imparted through films that teach important life lessons and moral values to 1K+ Students
		 Provide students to engage in fun and educational activities, fostering their holistic development. 8K+ students.
		• Children toy foundation kit to 5k+ Students
		 Building as Learning Aid (7K+ Students): BALA transforming school spaces into vibrant learning environments through creative artwork.
		Environmental Education Project: 80 Schools, 12000+ Students
		Adani Competitive Coaching Center: 27 School, 5000+ Students
		Oasis Reading workshop: 700+ Workshop. 20000+ Students
		Capacity building of teachers: 150Teachers, 16000+ Hours
		Key finding of third-party assessment:
		The Utthan program assessment employed a quasi-experimental, mixed-methods design with pre- post comparisons and stratified random and purposive sampling to evaluate student



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Sr.	0	Compliance Status as on
No.	Conditions	31-03-2025
No.		outcomes, program impact, and sustainability. • The sample included 288 intervention students, 96 non-intervention students, 53 Sahayak, 30 head teachers, 30 SMC members, 30 parents, and community members, with data collected through FGDs, SSIs, and KIIs. Univariate and bivariate analyses were conducted, and field notes were transcribed to identify themes. These themes were aligned with objectives and compared to past data to uncover discrepancies and analyze their causes. More than 90% of the students have achieved proficiency in reading, writing and numeracy skills in Utthan Schools. Utthan sahayak as catalyst: The introduction of Saha yaks (teacher assistants) ensures personalized student support and bridges gaps between schools and families, fostering greater parental involvement. Sahayak have mentioned improvements in their classroom management practices, strong and parent and community management and understanding of student child development 97% of students reported improved confidence in leadership and communication and 97% of students in Utthan schools have mentioned interest in attending school. Teachers' capacity building: Comprehensive teacher training programs enhance instructional quality, equipping educators with tools to deliver FLN-focused curriculum effectively. Community engagement through home visits and mothers' meetings, the project strengthens parental accountability and participation, directly influencing students' motivation and performance.
		Academic and Institutional Developments: Board exam results



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Sr.		Compliance Status as on				
No.	L'ANAIFIANS '					
No.	Conditions	showcased excellent student performance, with targeted remedial sessions introduced for continuous improvement. The Housekeeping Training Program (May 28) emphasized cleanliness and hygiene maintenance among staff. Teacher Development and Training: Teacher Capacity Building Program (June 6) enhanced instructional strategies and curriculum planning. NABET Accreditation Training (June 12) ensured compliance with national educational standards. Technological Advancements: Inauguration of a New Computer Lab (Sept 27) enhanced digital learning opportunities. Al and Google Gemini Training (Nov 16) prepared educators for modern teaching methodologies. Cultural and Co- Curricular Activities: World Book Day (April 23) promoted reading culture through storytelling and book exhibitions. International Yoga Day (June 21) emphasized mindfulness and physical wellness. Student Achievements: SVS Science Exhibition (Oct 4): AVMB students won first place for their research on screen time and its impact. District-Level Science Fair (Dec 9-10): Students represented Mundra Taluka with innovative projects. Health and Safety Initiatives: Menstrual Hygiene Awareness Program (June 22) educated girls on personal health and wellness. School-Wide Health Check-Up (July 8) ensured early detection of health concerns.				
		Project Udaan - Inspiring Minds				
		About Project: Under this project, exposure tours are organized wherein				
		exposure tours are organized wherein school, college students, faculties, employees from corporates are given a				



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C-		Compliance Status as as				
Sr. No.	Conditions	Compliance Status as on 31-03-2025				
		chance to visit the Adani Group facilities. Total 408 no. of Schools/Colleges/ Institutes participated. Total 26346 no. of participants participated. Total 26346 no. of participants participated. Rural Infrastructure & Environmental Sustainability Renovation of Aanganwadi, Goyarsama Village – 40 beneficiaries Construction of Pipe Culvert, Old Bandar Fisherman Vasahat - 1200 beneficiaries Open Shed & Community Hall, Sukhpurvah Mundra – 1200 beneficiaries Open Shed at PTC College, Mundra – 160 beneficiaries Renovation of High School, Zarpara Village – 550 beneficiaries Canal Cleaning & Chamber Renovation, Bhadreswar Village – 120 beneficiaries Canal Cleaning & Chamber Renovation, Bhadreswar Village – 120 beneficiaries Renovation of Approach Road, Shekadiya and Luni – 1200 beneficiaries Ro. Plant Installation, ITI Mundra & Sanjivni School – 800 beneficiaries Paver Block Floor Work, Wandi Village – 2000 beneficiaries Paver Block Floor Work, Wandi Village – 2000 beneficiaries Educational Facility Renovations High School, Zarpara: 550 students benefited. Aanganwadi, Goyarsama: 40 students benefited. High School, Desalpar: 550 students benefited. Kasturba Girls Hostel, Desalpar: 150 girls benefited. Infrastructure Improvements Pipe Culvert, Old Bandar: 1200 people benefited.				



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Sr. No.	Conditions	Compliance Status as on 31-03-2025						
		 Ensuring a future of dignity, security, and stability for beneficiaries. Strengthening inclusivity and social upliftment through impactful support. INNOVATIVE ENVIRONMENTAL 						
		SOLUTIONS FOR SUSTAINABLE FUTURE:						
		 TERRESTRIAL BIODIVERSITY Project Adani Van: "Harit Paryavaran ki Ek Pahel" focuses on afforestation and community involvement, transforming barren lands into thriving forests with 88,303 plants, enhancing local biodiversity. 						
		❖ COASTAL BIODIVERSITY						
		 The mangrove plantation project at the Luni coastal belt has created 162 hectares of dense mangrove forests, providing a new habitat for various species and showcasing the area's ecological richness. 						
		❖ PLASTIC FREE ENVIRONMENT						
		 This initiative educates children about plastic pollution and promotes reducing, reusing, and recycling plastic to foster environmental responsibility. 						
		❖ WATER CONSERVATION						
		The SWAJAL project addresses groundwater depletion in Kutch by constructing rooftop rainwater harvesting systems, benefiting 1,660+individuals and ensuring access to quality drinking water.						
		❖ SOLAR PROJECTS						
		 Surya Ghar initiative provides sustainable energy solutions by installing solar panels, significantly reducing electricity costs and promoting environmental sustainability in rural communities. Adani Van - Harit Paryavaran ki Ek Pahel: Massive plantation drives to enhance green cover. Transformed barren lands into thriving forests, promoting sustainability 						



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Sr.		Compliance Status as on				
No.	Conditions	31-03-2025				
		Biodiversity Enhancement: 78 bird species, 4 mammal species, 12 species of insects and reptiles. Significantly enhanced local biodiversity and ecological health. Prakruti Rath Community- Led Green Initiatives: Distributed 53,886 saplings, enhancing green cover. Strengthened community connection to nature and empowered environmental stewardship. Plantation Achievements: Total Plants: 88,303 across 35 acres Native Species: 70+ species planted				
		Biodiversity Knowledge & Interpretation Center				
		 Biodiversity & Interpretation Center: The center is dedicated to educating, inspiring, and engaging the community in conserving Gujarat's rich biodiverse. Nursery Development: A nursery of 10,000 mangrove seeds was established at the Luni site with the active participation of local fishermen. Training Sessions: 30+ Employee Training on Biodiversity Conservation at Mundra Petrochem LTD. 				
		 Awareness Sessions: An awareness lecture was held at Adani Vidya Mandir, Bhadreshwar, with 50+ students participating. Workshop on Coastal Conservation: One-day workshop was held with participation of 200+ students of University. 				
		Nurturing A Plastic-free Generation Plastic Free Villages: 2 villages & 8500 individuals targeted 50+ local vendors, 70+ women in SHGs 325+ students were aware by sessions Green School Project Covering 75+ Schools 12000+ Students				



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C.		Compliance Status on an					
Sr.	Conditions	Compliance Status as on 31-03-2025					
No.	Conditions	31-03-2025 ○ 32000+ Kg Single used plastic recycle at Zero Cost • Coastal Cleanup Day ○ 200+ students and 80 Uthhan Sahayaks led to the successful cleanup of a 1 km stretch of Kashivishvnath Beach, Mandvi. > WATER CONSERVATION "SWAJAL PROJECT" ENHANCING RURAL WATER RESOURCES • Adani Foundation has undertaken significant water conservation initiatives to address water scarcity and improve water availability in rural areas.					
		Through the creation of 737 various water structures, the project has increased water capacity by 5,400,735 cubic meters (CUM) and benefited 64,515 people. • Check Dam New/Renovation • Structures: 29 • Water Capacity Increase: 1,072,332 CUM • Beneficiaries: 30,870 • Impact: Enhances water storage and					
		irrigation. Rainwater Harvesting Structures (RRWHS) Structures: 330 Water Capacity Increase: 3,300,000 CUM Beneficiaries: 1,650 Impact: Maximizes rainwater capture and usage. Rs. 10950 yearly saved/house					
		Pond Deepening Structures: 135 Water Capacity Increase: 1,028,403 CUM Beneficiaries: 18,350 Impact: Improves water retention and availability. Construction of Percolation Wells Structures: 26 Ground Water Recharge: Significant Beneficiaries: 3,000					



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Sr.		Compliance Status as on				
No.	Conditions	31-03-2025				
		o Impact: Boosts groundwater levels and availability. • Bore/Well Recharge				



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	Conditions	Compliance Status as on					
-		31-03-2025					
		innovation, and entrepreneurship.	promotes				
		 ♣ The center's impact is significant, with 887 students in Bhuj & Mundra, where 70% of participants are female, and 258 technical trainees already placed in diverse roles such as General Duty Assistant and Domestic Data Entry Operator etc. Six placement drives and 24 guest lectures have further supported career opportunities. In Mundra, courses like RTG Crane Operator, Tally with GST, and Beauty Therapist training have drawn strong participation, especially among women, resulting in 135 placements in beauty therapy alone. ♣ By equipping youth with relevant skills, facilitating job opportunities, and empowering women, ASDC plays a vital role in driving inclusive growth, promoting gender equality, and contributing to the region's economic progress. 					
		❖ ASDC - MUNDRA	No. Total				
		JOC (RTG Crane OO 14 Operator)	140 140				
			l4 44				
			00 01				
			00 134				
		Painting/Drawi 06 C ng Training)9 15				
		German 02 0 Language	00 02				
		Advance Excel 01 1	0 11				
			0 11				
		Mud Work 40 0					
		Mud Work 40 0 Dori Work 40 0	00 40				
		Mud Work 40 0 Dori Work 40 0	00 40 00 40				
		Mud Work 40 0 Dori Work 40 0 Total 254 1 ❖ ASDC - BHUJ	00 40 00 40				
		Mud Work 40 0 Dori Work 40 0 Total 254 1 ◆ ASDC - BHUJ Course Name Female II	00 40 00 40 73 42 7				



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Co		0-	maliana Chatur			
Sr. Conditions	Compliance Status as on 31-03-2025					
			EDP – Tie up with CED	40	05	45
			Skill Up gradation	90	60	150
			Domestic Data Entry Operator	61	01	62
			First Aid	31	05	36
			Total	369	91	460
	carried out by The budget allo	Ada oca wa	Personal Care Beauty There important for p essential safety Artistic Development: Drawing Traini Work, enhar traditional craf Language and Covers Germa Excel, and ED boosting comm skills. kure – 2 for full d ani Foundation i ted for CSR actives INR 1,564.72	eration: Estation: Estatio	issential fe and sement: ST, crimagement: Pabove ped skill Safety: Orafts ses Pai Work, creativities Produage, se up with and ses Produage, se up with and ses Produce or the ses produc	I for port efficient Includes tical for not and Programs: Programs, set for Covers est Aid, Justry and Esmanship nting / and Dori ey and Ificiency: Advance ith CED, technical activities a region. financial



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Sr.	Conditions	Compliance Status as on				
No.	00110110110	31-03-2025				
		Till Mar'25, Adani Foundation has done total expenditure of INR 188.41 Cr. for CSR activities in Kutch region since its inception.				
3	To meet any emergency situation, appropriate fire – fighting system should be installed. Appropriate arrangements for uninterrupted power supply to the environment protection equipment and continuous water supply for the firefighting system should be made.	Complied. Tug (Dolphin-11) has firefighting system of 1200 m3/hr. along with 20-ton lifting "A" frame and diving support facility for support at offshore. With respect to onshore facilities valve station, pumping station and transportation pipeline, foam base fire tender is available. With respect to onshore facilities valve station, pumping station and transportation pipeline, foam base fire tender, fire water network is available Fire-fighting system has been installed and maintained to meet emergency situations. Additionally for emergency, DG Set is provided for fire water pumps to ensure continuous water supply for firefighting purpose. Detail information on firefighting facility available at APSEZL was submitted as part of the compliance report for the period from Oct'16 to March'17				
		and there is no farther change.				
4	A separate Environment Management Cell with	Complied.				
	suitably qualified staff to carry out various environment related functions should be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.	APSEZL has a well-structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan at site. Site team report to Site environment head direct report to site Chief Executive Officer (CEO) and the CEO directly reports to the top management. Updated Environment Management Cell Organogram was submitted during Apr'24 to Sep'24 compliance period. And there is no further change.				
5	The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any	Complied. Separate budget for the Environment Protection measures is earmarked every year. All environmental and horticulture activities are considered at group level and budget allocation is also done accordingly. No separate bank account is maintained for the same however, all the				



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Sr.	0 4!!!	Compliance Status as on
No.	Conditions	31-03-2025
	other purpose. A year wise expenditure on environmental safeguards should be	expenses are recorded in advanced accounting system of the organization. Budget for environmental management measures
	reported to this Ministry's Regional Office at Bhopal.	(including horticulture) for the FY 2024-25 is to the tune of INR 1340.21 lakh. Out of which, Approx. INR 1029.51 lakh are spent during the year FY 2024-25. Detailed breakup of the expenditures for the past 3 years is attached as Annexure – 8 .
6	Full support should be extended to the officers	Complied
	of this Ministry's Regional Office at Bhopal and the officers	APSEZL is always extending full support to the regulatory authorities during their visit to the project site.
	of the Central and State Pollution Control Board by the project proponents during their inspection for monitoring purposes, by furnishing full details	Last visit of Regional Office, GPCB was done on 14.02.2022 with respect to SPM project and compliance of the same has been submitted vide our letter dated 16.02.2022. Details of the same Details were submitted during half yearly EC Compliance report for the period Oct'21 to Mar'22.
	and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	Inline to the compliance certification process of Environment Clearance condition of Waterfront Development Plan, RO, MoEF&CC Bhopal had visited the site on 27th & 28th January, 2020 for compliance verification. APSEZ provided all requisite information and documents required by the Regional Officer MoEF&CC). During the said compliance verification visit and as per the compliance certification received, there was no major non-compliance observed.
		Inline to the compliance certification process of Consent to Operates of existing facilities developed under Waterfront Development Plan, RO, GPCB, Gandhidham had visited the site on 17 th March, 2021 for compliance verification. APSEZ provided all requisite information and documents required by the Regional Officer GPCB). During the said compliance verification visit and as per the compliance certification received, there was no noncompliance observed.



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Sr.	Conditions	Compliance Status as on
No.		Inline to the compliance of MoEF&CC Order dated 18 th September, 2015, Joint Review Committee (JRC) comprising officials from various competent authorities visited the APSEZ, Mundra from 1 st to 3 rd September, 2021 to monitor the progress of implementation of the conditions stipulated in the order. APSEZ provided all requisite information and documents required by the JRC. As per the report received by MoEF&CC vide dated 01.12.2021, there was no non-compliance observed. Inline to the compliance certification process of Environment Clearance of Waterfront Development Plan, IRO- MoEF&CC Gandhinagar has lastly visited the site on 18 th to 20 th December, 2023 for compliance verification. APSEZ provided all requisite information and documents required by the Regional Officer MoEF&CC). During the said compliance verification visit and as per the compliance certification received, there was no non-compliance observed. Copy of submitted action taken report w.r.t. certified compliance were submitted during half yearly EC Compliance report for the period Oct'23 to Mar'24.
7	In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new one for ensuring environmental protection. The project proponents should be responsible for implementing the suggested safeguard	Point noted. There is no change in the approved project proposal.
8	measures. This Ministry reserves the right to revoke this	Point noted.



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Sr. No.	Conditions	Compliance Status as on 31-03-2025
110.	clearance, if any of the	31-03-2023
	conditions stipulated	
	are not complied with to	
	the satisfaction of this	
	Ministry.	
9	This Ministry or any	Point noted.
	other competent authority may stipulate	
	any other additional	
	conditions	
	subsequently, if deemed	
	necessary, for	
	environmental	
	protection, which should	
10	be complied with. A copy of the clearance	Not applicable at especial
10	letter should be marked	Not applicable at present
	to the concerned	
	Panchayat / local NGO, if	
	any, from whom any	
	suggestion /	
	representation has been	
	received while	
11	processing the proposal. State Pollution Control	Not Applicable
''	Board / Committee	This condition does not belong to project proponent.
	should display a copy of	This condition does not belong to project proponent.
	the clearance letter at	
	the District Industries	
	Center and Collector's	
	Office/ Tehsildar's Office	
	for 30 days from the	
	date of receipt of this letter.	
12	The project proponent	Already Complied.
'-	should advertise at least	/ meday domphed.
	in two local newspapers	
	widely circulated in the	
	region around the	
	project, one of which	
	shall be in the vernacular	



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Sr.	Conditions	Compliance Status as on
No.	language of the legality	31-03-2025
	language of the locality concerned informing	
	that the project has	
	been accorded	
	environmental clearance	
	and copies of clearance	
	letter are available with	
	the Gujarat Pollution	
	Control Board and may	
	also be seen at the website of the Ministry	
	of Environment &	
	Forests at	
	http://www.envfor.nic.in	
	/	
13	The project proponents	Already Complied
	should inform regional	
	Office Bhopal as well as	
	the Ministry, the date of financial closure and	
	final approval of the	
	project by the	
	concerned authority and	
	the date of start of work.	
14	The project proponent	Not Applicable
	will obtain Forest	No forest land was involved in the project.
	clearance for any	
	stretch of land if it passes through the	
	forest land.	
15	So as to maintain	Complied.
	ecological features and	·
	avoid damage to the	All activities are carried out as per the permissions
	ecosystem, movement	obtained from competent authorities. No unauthorized
	of vehicles in the Inter	movement of vehicles is allowed in the intertidal zone.
	Tidal Zone shall be	
16	restricted to minimum.	Complied Not applies bloom at access
16	Since the pipeline passes along mangrove	Complied. Not applicable at present Construction activities are completed & project is in
	areas and the mud flats	operation stage. Please refer to specific condition no 1 for
	of Mundra area, the	detailed reply regarding mangrove plantation activity.



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Sr. No.	Conditions	Compliance Status as on 31-03-2025
	project proponents will ensure adequate protection to mangroves.	
17	Budgetary break up for Environmental Management Plan for the project to be mentioned.	Please refer to general condition no 5 for detailed reply



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To : Mar'25

Status of the conditions stipulated in Environment Clearance under CRZ notification

ANNEXURE - A

CRZ Recommendation Compliance Report of SPM, COT and connecting pipeline at Mundra Port



From : Oct'24
To : Mar'25

Status of the conditions stipulated in Environment Clearance under CRZ notification

Half yearly Compliance report of CRZ recommendation for "SPM, COT and connecting pipeline at Mundra Port, Dist. Kutch in Gujarat" issued by DoEF, GOG vide letter no. ENV-10-2002-124-P (Part1) dated 8th October 2003.

Sr. No.	Conditions	Compliance Status as on 31.03.2025
1	The provision of the CRZ	Complied.
	notification of 1991 and its	
	amendments issued from	Construction activities are completed and the project is in
	time to time shall be strictly	operation phase. All stipulations with respect to the CRZ
	complied with by the GAPL.	notification and its subsequent amendments are complied with.
2	This recommendation is only	Point noted.
	for those activities proposed	Construction activities are completed and the project is in
	to be commissioned before	operation phase.
	the end of the year 2008 as	
	mentioned in the bar chart	
	submitted by GAPL.	
3	A separate clearance shall	Point Noted.
	be obtained by the GAPL for	
	construction of the SPM No.	APSEZL has only developed SPM no. 1 so far.
	3 and 4, corresponding	SPM no. 3 and 4 are not developed yet and required
	pipelines and COTs after	permissions for the same will be obtained by following
	demonstrating the	procedures mentioned in respective notifications.
	compliance of the	
	conditions, ecological	
	upliftment activities	
	undertaken successfully	
	and mitigative measures	
	implemented while	
	developing the SPM no.1	
	and corresponding COT. A	
	regional EIA shall also be	
	commissioned immediately	
	by the GAPL and all future	
	development should be	



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To : Mar'25

Sr. No.	Conditions	Compliance Status as on 31.03.2025
	based on the outcome of the	
	said regional EIA only.	
4	Before commissioning of the construction activities, the construction design and pipeline alignment shall be validated/ approved by National Institute Oceanography to ensure that there is no negative impact on the coastal morphology, hydrodynamics and ecological systems including the corals, if any. The mitigative measures as may be suggested by the NIO for this purpose shall be implemented by the GAPL.	Construction activities are completed and the project is in operation phase. The EIA report was prepared by NIO and specific design considerations were taken into account for carrying out various studies for preparation of the same. Findings of the studies were considered before commissioning of the construction activities. There are no corals present at the project site.
5	A comprehensive EIA shall be prepared and submitted to this Department by the GAPL, before commissioning of the SPM. All the suggestions for environmental protection /management that may be given in the comprehensive EIA shall be implemented by the GAPL.	EIA study has been completed and report is already submitted to MoEF&CC and other concerned authorities. Based on the same, Environment and CRZ clearance was granted by MoEF&CC. • A Regional Impact Assessment study to identify impacts of all the existing as well as proposed project activities in Mundra region inline to ToR issued by GCZMA. CIA Report was prepared inline to the ToR by Chola MS and the same was submitted to the GCZMA on 30.04.2018. Details of the same were submitted along with half yearly EC Compliance report for the period Apr'19 to Sep'19. • Presentation on the findings of the report was made to GCZMA committee on 4 th October 2019 and after detailed discussion, authority has decided to constitute committee to discuss the details of the report further.



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		A 11 A
Sr.	Conditions	Compliance Status as on
No.		31.03.2025
		 Reminder Letter vide dated 07.09.2020 & 10.03.2021 submitted to the GCZMA, Gandhinagar for further directives to present the findings of the CIA report in detail. Details of the same were submitted along with previous half yearly EC Compliance report for the period Oct'20 to Mar'21. Presentation done before GCZMA on 31.10.2021 and 16.02.2021 to discuss proposed EMP of CIA study in detail and way forward. GCZMA, Gandhinagar issued a letter to co-ordinate with various departments in the matter of CIA with Gujarat Pollution Control Board as Nodal Agency vide dated 12th July, 2022. APSEZ submitted the letter to GPCB for detailed deliberation and suitable action / way forward vide letter dated 20th July, 2022. Details of the same were submitted during the last compliance period Apr'22 to Sep'22.
		However, APSEZ is already complying with the Environment Management Plan (applicable to APSEZ) suggested in the Cumulative Impact Assessment report. The detailed compliance, applicable to APSEZ is attached as Annexure – 9 .
6	The ground water shall not	Complied.
	be tapped in any case to	, and the second
	meet with the water	APSEZ does not withdraw any ground water for the water
	requirements during construction and/or	requirement. Present source of water for entire port and SEZ is desalination plant and/or Gujarat Water
	operation phases.	Infrastructure Limited (GWIL).
7	The GAPL shall ensure that	Complied.
	the free flow of water in the intertidal area is not hampered due to proposed construction activities for pipeline corridor as well as other activities including	Construction activity is already completed and the project is in operation phase. Free flow of water in the intertidal area is not hampered due to any operational activities. There are no filling or reclamation activities done at any of the creeks or



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	the COT. Further, it shall be	mar	mangrove areas in the vicinity of the project. As per the							
	ensured by the GAPL that	batl	bathymetry study carried out by NCSCM in 2017-18, it can							
	the nearby mangroves are	be o	be concluded that there are sufficient depths at the creek							
	not at all affected due to		mouths and all creek mouths are open allowing flushing of							
	proposed development		water.							
	activities specifically the	WGC								
	COT.	Summary of Conservation of mangroves:								
	CO1.	Summary or Conservation or mangroves:								
		Г	Mangrove	Monitor	ing Mangrove Mangrove cover area					
			mapping	Agenc	y cover total Increased					
			Year 2011		Area (Ha.) Hac. %					
		-	2011 2011 to	NCSCI						
			2016-17							
			2017 to 2019 till	NCSCI	2596 256 10.94%					
			March	NCSCI	vi					
			2019 to	_	2723 127 4.89%					
			2021 till March	GUIDE						
		-	Total		2723 629					
		Hence, overall increase in mangrove cover area in creek system in and around APSEZ from 2011 (2094 Ha) to 2021 (2723 Ha) is 629 Ha (30%). As a part of GCZMA recommendations and NCSCM mangrove conservation action plan, APSEZ has undertaken following activities.								
		Sr. No.	Recomme	ndations	Compliance					
		 Mangrove mapping and monitoring in and around APSEZ APSEZ entrusted NCSCM, Chennai to carry out Monitoring of mangrove distribution in creeks in and around APSEZ and shoreline changes in Bocha island. As a part of this study, overall growth of mangroves in the creeks in and around APSEZ was assessed comparing Google earth images of 2017 & 2019 and it is observed that there was increase in mangrove cover 								



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Sr.		Compliance Status as on				
No.	Conditions	31.03.2025				
		between March 2017 and September 2019 to the extent of 256 Ha, which is about 10.94%. • This suggests that the mangroves and the tidal system in the creeks remain undisturbed over this period. Analysis of data between categories indicated that there was an increase in dense mangroves and also conversion of scattered to sparse which also shows that the growth of mangroves in a progressive direction. • Hence, there is an overall growth of mangroves in creeks in and around APSEZ, Mundra is 502 Ha between 2011 and 2019. • The cost of the said study was INR 23.56 Lacs incurred by APSEZ. • According to GUIDE Mangrove monitoring study report November 2023 (the report was submitted during the last compliance report submission Apr'23 to Sep'23), the distribution of mangroves in Kotadi, Baradi Mata, Navinal, Bocha and Khari creeks as well as in the Bocha island was studied using LISS IV satellite images for the duration of March 2019 to March 2021. The mangrove cover in the creeks in and around APSEZ showed a positive trend from March 2019 to March 2021, with an overall increase of 52.79 ha (1.9%) compared to the cover during the year 2019. The total mangrove cover during 2019 was 2670 ha which has increased to 2723 ha during the year 2021. • Hence, overall increase in mangrove cover area in creek system in and around APSEZ from 2011 (2094 Ha) to 2021 (2723 Ha) is 629 Ha (30%). • The cost of the said study was INR 23.60 Lacs incurred by APSEZ.				



From : Oct'24
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Sr.	Conditions	Compliance Status as on						
No.	Conditions			31.03.	2025	5		
				Mangro mappi Year	ng	Mangrove cover total Area (Ha.)	cove	grove er area eased
							Hac.	%
				2011		2094	-	-
				2011 to 2016-17		2340	246	11.75%
				2017 to 2 till Marc		2596	256	10.94%
				2019 to 2021 till March		2723	127	4.89
				Tota	ıl	2723	629	
		2.	Tidal observation in creeks in and around APSEZ	2017 Bocl guid • The that tidal of m • The	ervation in the arce obsect the langround cost acs.	ons at local Kotdi, Barad Kotdi, Barad of MCSCM. erved tidal creeks expes, adequate oves.	dimata, eeks ur ranges erience e for the activity	imilar to Navinal, nder the indicate e normal e growth was INR
		3.	Removal of Algal and Prosopis growth from mangrove areas	 Algal and Prosopis growth monitoring was done in and around mangrow area and algal encrustation was four in some of the mangrove areas, which has been removed manually. The cost of the said activity was R 1,50,000 during FY 2024-25. The algoremoval report is attached Annexure – 10. 				nangrove las found las, which was Rs. The algal
		4.	Awareness of mangroves importance in surrounding communities	grou cam com man prov fodd cove hend Dry 51,6 • Awa in su	up ips/ac imunit igrove vides (der to ering ce en Fodd 6,805 irenes	ty regarding is. Adani Good Quality o 24 Villag total 1500 hancing cat	e average and a second and a se	wareness in the tance of undation and green roject is tels and ductivity. Green – portance & Fodder



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Sr.		Compliance Status as on				
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		supporting activities was approx. 410.48 Lacs during FY 2024-25., which was incurred by APSEZ. • Grass Land development: 213 acres of gauchar land has been cleaned and allocated for Grass land development with strong Community Contribution and Mobilization. • Other than this dedicated security guard with gate system deployed by APSEZ across the coastal area and no any unauthorized persons allowed within coastal as well as mangrove areas. • APSEZ has celebrated the International Day for the Conservation of the Mangrove Ecosystem with coordination of Adani Foundation from 24th to 26th July 2024 to raise awareness of the importance of mangrove ecosystems as "a unique, special and vulnerable ecosystem". was submitted during the compliance period Apr'24 to Sep'24. • Refer CSR report attached as Annexure – 2.				
		mangrove monitoring at every 2 years, presently APSEZ has awarded the work order to NCSCM, Chennai vide order no. 4802055905, dated 24/09/2024 with cost 45.87 Lacs for mangrove mapping in and around APSEZ March 2021 to March 2023.				
		NCSCM has conducted ground truthing during 5th to 7th Mar'25 & 22nd to 27th Apr'25 in and around our APSEZ area for mangrove mapping & study work has been completed. Final Mangrove mapping report is awaited from NCSCM.				
8	The GAPL shall take up massive mangroves plantation activities in addition 25 Ha. of area suitably identified in	Complied. Construction activities are completed & project is in operation stage. Please refer to specific condition no 1 of the compliance of EC and CRZ clearance for detailed reply regarding mangrove plantation activity.				



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	consultation with the office	
	of the Principal Chief	
	Conservator of Forests, GoG,	
	as well as this Department.	
	The GAPL shall bear the cost	
	of the said land as well as	
	the cost of the plantation of	
	mangroves & its sustenance	
	for a reasonable period of	
	time.	
9	In addition to the mangroves plantation, the GAPL shall	Complied.
	also take up massive	Construction activities are completed & project is in
	greenbelt development in	operation stage. Please refer to specific condition no 2 of
	and around the project site	the compliance of EC and CRZ clearance for detailed reply
	in consultation with the	regarding greenbelt development activity.
	Forest Department.	
10	The GAPL shall provide	Complied.
	financial contribution as	
	many as decided by this	APSEZ is practicing well defined traffic control procedure.
	department for any common	
	study like carrying capacity	A VTMS service for Gulf of Kutch is provided by the VTS Gulf
	for the Gulf of Kachchh as	of Kutch, operated by Directorate General of Lighthouses
	well as for any common	and Lightships (DGLL), Govt. of India.
	facilities including Vessels	
	Traffic Management System	Marine Control of APSEZ provides traffic update to vessels
	in the Gulf of Kachchh, for	in Mundra Port Limit on VHF Channel- 77.
	the purpose of the	
	environment	Arrival and departure information before arrival and
	protection/management.	departure respectively in Gulf of Kutch is provided to VTMS
		information cell through agent or by directly sending mail
		to vtsmanagergulfofkutch@yahoo.com and
		vtsgok@yahoo.com
		Mundra port has subscribed and taking VTMS feed from
		Kandla from link <u>www.vts.gov.in.</u>



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Sr. No.	Conditions	Compliance Status as on 31.03.2025
		Necessary financial contribution if require will be provided on hearing from MOEF&CC.
11	The GAPL shall provide financial support in implementation of National Green Corps scheme (being implemented in Gujarat by the GEER Foundation) in Kachchh district in consultation with Forests & Environment Department.	Necessary contribution if require will be provided on hearing from GEER foundation to support NGC scheme.
12	The GAPL shall bear the cost of the external agency that may be appointed by the Forests and Environment Department, GoG for supervision/ monitoring of their activities during construction and/or operational phases.	Point noted. APSEZ will provide full support for supervision and monitoring of the project operations after due discussion with the concerned agency and Forests & Environment Department, GoG. No such agency was appointed during the compliance period. As part of the directions given by MoEF&CC vides order dated 18 th Sep, 2015, following studies were conducted. 3. NCSCM (MoEF&CC promoted Government Agency) study on comprehensive and integrated plan for preservation and conservation of mangroves and associated creeks in and around APSEZ in year 2016-17.
		The cost of said study was 3.15 Cr, which was incurred by APSEZ. As a part of mangrove conservation plan, APSEZ has done following activities. a. Monitoring of mangrove distribution in creeks in and around APSEZ and shoreline changes in Bocha island through NCSCM, Chennai. The cost of the said study was INR 23.56 Lacs incurred by APSEZ. b. Tidal observation in creeks in and around APSEZ – The



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Sr.			Complian	ice Status as	nn		
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		cost of the said activity was INR 1.0 Lacs incurred by APSEZ. c. Algal & Prosopis removal from Mangrove area - The cost of the said activity was Rs. 1,50,000 during FY 2024-25. The algal removal report is attached as Annexure - 10. d. Awareness of mangroves importance in surrounding communities & Fodder support - The expenditure for fodder supporting activities was approx. 410.48 Lacs during FY 2024-25, which was incurred by APSEZ. This activity is being done on continuous basis as a part of CSR activity. Summary of Conservation of mangroves:					
		Mangrove mapping Year	Monitoring	Mangrove cover total Area (Ha.)	_	ve cover area	
		, , , , , , , , , , , , , , , , , , ,	Agency		Hac.	%	
		2011	NCCCAA	2094	-	-	
		2011 to 2016-17	NCSCM	2340	246	11.75%	
		2017 to 2019 till March	NCSCM	2596	256	10.94%	
		2019 to 2021 till March	GUIDE	2723	127	4.89%	
		Total		2723	629		
13	The dredged material that	 Hence, overall increase in mangrove cover area in creek system in and around APSEZ from 2011 (2094 Ha) to 2021 (2723 Ha) is 629 Ha (30%). 4. A Regional Impact Assessment study through Chola MS, Chennai (NABET accredited consultant) to identify impacts of all the existing as well as proposed project activities in Mundra region inline to ToR issued by GCZMA. The cost of said study was 1.3 Cr, which was incurred by APSEZ. 					
13	may be generated, if any, shall be disposed of at location suitably identified in consultation with the institute of repute like	· · · · · · · · · · · · · · · · · · ·					



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Sr.		Compliance Status as on
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	NEERI/NIO after due	
	consideration of various	
	environmental aspects and	
	ensuring no significant	
	negative impacts due to the	
	same.	
14	No waste including the	Complied.
	construction debris, oily	Construction pativities are completed and the arginat is in
	waste from construction	Construction activities are completed and the project is in operation phase.
	equipment's, untreated	operation phase.
	sewage, etc. would be	There is no disposal of any waste including civil debris in
	disposed of in to sea/ river/	CRZ area.
	creek or in the CRZ areas.	No Sowage of DO Deject water is being apparated by SDM
	The treated sewage meeting	No Sewage or RO Reject water is being generated by SPM activity.
	with the norms fixed by the	doctvicy.
	Gujarat Pollution Control Board and the reject water	
	from RO plant if any, shall be	
	disposed of at a point in the	
	deep sea as may be	
	suggested by the institute	
	of repute like the	
	NEERI/NIO.	
15	The Gujarat Maritime Board	Complied.
	shall ensure that the Vessel	
	Traffic Management System	Kandla, GMB & DGLL are the agencies who financially
	for safe navigation in the	support to VTMS. For SPM, APSEZ is mutual partner to
	Gulf of Kachchh shall be	support in case of Oil spill & vice versa. For further details
	established and	regarding traffic management, please refer condition no. 10
	commissioned before	of CRZ recommendations above.
	commissioning of the SPM	
	No. 1 by the GAPL. The GAPL	
	shall follow up for this with	
	various stakeholders and	
	provide financial and	



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	technical inputs for the	
	same.	
16	A mutual aid system for the	Complied.
	Mundra Port region shall be developed to meet with any	APSEZ has signed an MoU with HPCL, Mittal Pipeline Ltd., Mundra in the region of Gulf of Kutch to assist each other
	unforeseen circumstances or to meet with any	within stipulated time frame with best combination of resources.
	accidental condition. The GAPL shall take a lead for	Interface with ROSDCP and NOSDCP
	this by involving other	For responding to oil spill, the Indian Coast Guard has developed the National Oil Spill Disaster Contingency Plan
	stakeholders including	NOSDCP which has the approval of the Committee of
	HPCL.	Secretaries and has been in operation since 1996. The
		NOSDCP brings together the combined resources of the various organizations and departments, Coast Guard, Ports
		and Oil handling Agencies, and related industries, to provide
		a level of preparedness to the threat posed to the marine
		environment by oil spills.
		Latest Regional Level Pollution Response exercise
		"SWACHCHH SAMUDRA-NW 2024" was carried out by Indian Coast Guard on 14 th - 15 th OCT 2024 at Off Vadinar,
		Gujarat. All participants from various Oil Handling Agencies
		and Stakeholders (M/S Adani Port & SEZ, Mundra, Indian Oil
		Corporation LTD, Jamnagar, M/S Nayara Energy LTD VOTL, Vadinar, M/S Reliance Industries LTD, Sikka Jamnagar, M/S
		Essar Bulk Terminal, Salaya) were participated in this
		exercise. Details of the same is attached Annexure - 3 .
17	A detailed Risk Assessment	Complied.
	and Disaster Management	Detailed District Assessment and District Advances at Dis-
	Plan shall be worked out	Detailed Risk Assessment and Disaster Management Plan
	before commissioning of the	were prepaid By Tata AIG risk assessment services and few
	SPM by the GAPL and the mitigative measures shall be	mitigation measures are addressed in compliance of specific condition no 10 of EC & CRZ clearance above.
	identified and implemented.	These studies were carried out before the start of the
	The local Oil Spill	development activity and were considered by MoEF&CC
	Contingency Plan in lines	before grant of the EC and CRZ clearance.
	with the National Oil Spill	



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Sr.	Conditions	Compliance Status as on
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	Disaster Contingency Plan for the Mundra Port shall be put into operation immediately.	For responding to oil spill, the Indian Coast Guard has developed the National Oil Spill Disaster Contingency Plan NOSDCP which has the approval of the Committee of Secretaries and has been in operation since 1996. Oil spill contingency response plan (OSCRP) is prepared in accordance with the NOSDCP. Please refer specific condition no 5 of EC & CRZ clearance for further details.
18	Proper rehabilitation scheme shall be worked out for local fisherman communities in consultation with the District Collector/the Commissioner of Fisheries, Government of Gujarat, before commissioning of the SPM and report shall be furnished to the Forests and Environment Department.	Not applicable Location of SPM is unmanned (approximately 6.3 km inside the open sea from the shore) hence, there is no displacement of people, houses or fishing activity because of the project. However, APSEZ performs large scale socioeconomic upliftment program and shares the details with FOKIA (Federation of Kutch Industries Association) chaired by District Collector quarterly. For further information related to CSR activities carried out by Adani Foundation in the Mundra region, please refer to compliance of General condition no. 2 of the EC and CRZ clearance above.
19	The construction labour shall be provided with adequate amenities/ facilities including the water supply, sanitation and fuel to ensure that the existing environmental condition is not deteriorated by them. The camps for the construction labour shall be kept outside the CRZ area. The GAPL shall ensure that there is no confrontation amongst the local villagers and construction labour.	Complied. Construction activity is already completed, project is in operation phase. No construction camps were located in CRZ area. Most workers came from nearby villages however, for others; construction camps were located outside CRZ area. All necessary infrastructure and facilities like mobile toilets, safe drinking water, medical health care etc. were provided.



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Sr.		Compliance Status as on
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20	All possible social and health impacts due to the proposed development at Mundra Port shall be assessed in detail in the	Complied. Aspects of social and health impact were studies as part of EIA report prepared by NIO and mitigation measures have been implemented.
	comprehensive EIA and a detailed management plan shall be developed to mitigate the same.	APSEZ performs large scale socio-economic upliftment program and shares the details with FOKIA (Federation of Kutch Industries Association) chaired by District Collector quarterly.
21	The GAPL shall work out a detailed socio-economic upliftment programme in consultation with the District Collector and District Development Officer and shall implement the same. Separate budgetary provisions shall be kept for this purpose.	For further information related to CSR activities carried out by Adani Foundation in the Mundra region, please refer to compliance of General condition no. 2 of the EC and CRZ clearance above.
22	An Environmental	Complied.
	Management Cell with person having proper background shall be constituted. A separate budgetary provision shall have to be made for	APSEZL has a well-structured Environment Cell, staffed with qualified manpower for implementation of the Environmental Management Plan. For further details on the same, please refer to compliance of general condition no. 4 of the EC and CRZ clearance above.
	implementation of the Environmental Management Plan.	Separate budget for the Environment Protection measures is earmarked every year. For further details on the same, please refer to compliance of general condition no. 5 of the EC and CRZ clearance above.
23	Post project environmental	Being complied.
	monitoring shall be carried out regularly through a reputed institute like NEERI/NIO and report shall be submitted to the Forests	Monitoring of various environmental parameters for Ambient Air, Noise, marine water and sediments is being carried out by NABL accredited and MoEF&CC approved agency namely M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi.



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Sr.			Co	mpliance	Status as	s on		
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	and Environment							
	Department, GoG every year.	Ambient Air	Quality	(twice in	n a week) a	and Nois	e (once in a	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	month) mor	nitoring	are bei	ng carried	d out by	NABL and	
		MoEF&CC	accredi	ted ag	ency nar	nely M	/s. Unistar	
		Environmen	t and Re	•	•	•		
		the same fo				•	•	
		below.						
		Total Ambie	nt Air &	Noise Sa	empling Lo	cations:	5 Nos.	
		Parameter	Unit	Min	Max	Average	Perm.	
		AAQM					Limit ^{\$}	
		PM ₁₀	µg/m³	56.80	85.91	77.01	100	
		PM _{2.5}	µg/m³	22.15	40.91	30.32	60	
		SO ₂	µg/m³	15.77	34.01	23.75	80	
		NO ₂	µg/m³	18.46	38.46	27.93	80	
			11-11	1 00:-	1 00		Leq Perm.	
		Noise	Unit	Leq Min	Leq Max	Leq Ave.	Limit*	
		Day Time Night Time	dB(A)	57.3 58.7	68.9 66.4	64.67 62.62	75 70	
		Night Time	dB(A)	26.7			standards, 2009	
				Values reco	* as	s per CC&A (granted by GPCB	
		Marine water monitoring is carried out on monthly frequency. In order to analyzed marine water quality marine sampling is being carried out at a location nearby SPM. Please refer specific condition No. 8 of EC & CR2 clearance above. Environmental monitoring reports for the period from					eter quality, otion nearby f EC & CRZ	
24	No construction activities	Oct'24 to M Already Com					•	
24	shall be carried out by the	Alleddy Coll	יףוופט. וי	or applic	onie ar hi	eseiil.		
	·	I he construction work is completed and project is in					roject is in	
	GAPL in any of the Forest						any of the	
	areas.	forest area is carried out for project of SPM, COT and						
		connecting pipeline.						
25	All necessary clearances	Complied.						
	from different Government	•						
	Department/Agencies shall							



From : Oct'24
To : Mar'25

Sr.	A !!!!		Compliance St	atus as on		
No.	Conditions		31.03.2			
26	be obtained before commissioning any construction activities. A half yearly compliance	All necessary clearances as per prevailing laws have been already obtained. Construction activity is already completed, project is in operation phase.				
20	report with respect to above mentioned conditions as well as the implementation of the suggestions/ recommendations of the EIA and Risk Assessment reports shall be furnished to the Forest and Environment Department, GoG, without fail at regular interval.	Compliance report of EC conditions is uploaded regularly. A soft copy of last compliance report including results of monitoring data for the period of Apr'24 to Sep'24 was submitted through e-mail to Integrated Regional Office (IRO), MoEF&CC @ Gandhinagar, Zonal Office of CPCB @ Baroda, GPCB @ Gandhinagar & Gandhidham and Dept. of Forests & Env., Gandhinagar vide our letter dated 29.11.2024. The copy of the same is also available on our web site https://www.adaniports.com/ports-downloads.aswell as also uploaded on MoEF&CC Parivesh Portal . Please refer below for the details regarding past six compliance submissions.				
		Sr. No.	Compliance period	Date of submission		
		1	Oct'21 to Mar'22	30.05.2022		
		2	Apr'22 to Sep'22	30.11.2022		
		3	Oct'22 to Mar'23	30.05.2023		
		4	Apr'23 to Sep'23	29.11.2023		
		5	Oct'23 to Mar'24	29.05.2024		
		6	Apr'24 to Sep'24	29.11.2024		
		All the recommendations given in the report of Tata AlG Risk Management Services are implemented. For further information related to the same, please refer to compliance of specific condition no. 10 of the EC and CRZ clearance above.				
27	The GAPL shall also have to	Point note	ed.			
-	comply with any other					



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Sr. No.	Conditions	Compliance Status as on 31.03.2025
	condition as may be stipulated by the Forests	
	and Environment	
	Department, GoG, from time	
	to time.	

Annexure – 1



Details of Greenbelt Development at APSEZ, Mundra

	Total Green Zone Detail till Up to March 2025						
LOCATION	Area (In Ha.)	Trees (Nos.)	Palm (Nos.)	Shrubs (SQM)	Lawn (SQM)		
SV COLONY	72.29	34920.00	7962.00	69696.00	100646.00		
PORT & NON SEZ	81.61	149359.00	19220.00	75061.78	62966.38		
SEZ	115.70	226120.00	20489.00	220583.60	28162.03		
MITAP	2.47	8113.00	33.00	3340.00	4036.00		
WEST PORT	104.29	248074.00	66816.00	24112.00	16369.00		
AGRI PARK	8.94	17244.00	1332.00	5400.00	2121.44		
SOUTH PORT	14.45	27530.00	3470.00	3882.00	3327.26		
Samundra Township	58.26	63722.00	11834.00	23908.89	47520.07		
Productive Farming (Vadala Farm)	0.00	0.00	0.00	0.00	0.00		
TOTAL (APSEZL)	457.99	775082	131156	425984.27	265148.18		
		906238.00					



<u>Details of Mangrove Afforestation done by APSEZ</u>

SI. no.	Location	District	Area (Ha)	Duration	Species	Implementation agency
1	Mundra Port	Kutch	24	-	Avicennia marina	Dr. Maity, Mangrove consultant of India
2	Mundra Port	Kutch	25	-	Avicennia marina	Dr. Maity, Mangrove consultant of India
3	Luni/Hamirmora (Mundra,)	Kutch	160.8	2007 - 2015	Avicennia marina, Rhizophora mucronata, Ceriops tagal	GUIDE, Bhuj
4	Kukadsar (Mundra)	Kutch	66.5	2012 - 2014	Avicennia marina	GUIDE, Bhuj
5	Forest Area (Mundra)	Kutch	298	2011 - 2013	Avicennia marina	Forest Dept, Bhuj
6	Jangi Village (Bhachau)	Kutch	50	2012 - 2014	Avicennia marina	GUIDE, Bhuj
7	Jakhau Village (Abdasa)	Kutch	310.6	2007-08 & 2011-13	Avicennia marina, Rhizophora mucronata, Ceriops tagal	GUIDE, Bhuj
8	Sat Saida Bet	Kutch	255	2014-15 & 2016-17	Avicennia marina & Biodiversity	GUIDE, Bhuj
9	Dandi Village	Navsari	800	2006 - 2011	Avicennia marina, Rhizophora mucronata, Ceriops tagal	GEC, Gandhinagar
10	Talaja Village	Bhavnagar	50	2011-12	Avicennia marina	Forest Dept, Talaja
11	Narmada Village	Bhavnagar	250	2014 - 2015	Avicennia marina	GEC, Gandhinagar
12	Malpur Village	Bharuch	200	2012-14	Avicennia marina	SAVE, Ahmedabad
13	Kantiyajal Village	Bharuch	50	2014-15	Avicennia marina	SAVE, Ahmedabad
14	Devla Village	Bharuch	150	210-16	Avicennia marina	SAVE, Ahmedabad
15	Village Tala Talav (Khambhat)	Anand	100	2015 - 2016	Avicennia marina	SAVE, Ahmedabad
16	Village Tala Talav (Khambhat)	Anand	38	2015 - 2016	Avicennia marina	GEC, Gandhinagar
17	Aliya Bet, Village Katpor (Hansot)	Bharuch	62	2017-18	Avicennia marina & Rhizophora spp.	GEC, Gandhinagar
18	Kukadsar- (Bhadeswar- Mundra)	Kutch	250	2021-22	Avicennia marina	Shreeji Enterprise, Amreli
19	Kukadsar- (Bhadeswar- Mundra)	Kutch	750	2022-23	Avicennia marina	Shreeji Enterprise, Amreli
20	Kukadsar- (Bhadeswar- Mundra)	Kutch	250	2023-24	Avicennia marina	Shreeji Enterprise, Amreli
Total			4140			

Annexure – 2



Annual Report 2024-25

CSR Gujarat

Kutch - Dahej - Hazira

Adani Foundation

Adani House, Port Road, Mundra – Kutch 370 421

[info@adanifoundation.com] [www.adanifoundation.com]



Our Journey by



Mr. Rakshit Shah, Executive Director APSEZ

From Pledge to Progress Further,

"As your deed is so is your destiny. The larger an organization gets, the more power its deeds wield and the more power its deeds wield greater becomes its responsibility towards the larger society"

I am happy to share that Adani Foundation continued to make significant strides to elevate the sustainability of our CSR operations. This year We prioritize Livelihood enhancement to 2200+ women and supporting for Drip Irrigation to 1000+ Farmers. We raised the bar through our environmental initiatives, Water Conservation, Terrestrial and Coastal Biodiversity. We are also spreading awareness for reducing paper usage, Reducing emissions through firewood cooking, diesel free village drive at Surat district and increasing the green cover by planting trees. We enhanced the impact of our social initiatives by empowering women through Enhancing skill and Livelihood, increasing gender diversity and improving inclusivity. We are working for socio economic upliftment marginalized community i.e. Primitive Tribes at Bharuch and Surat district and fisherman at Kutchh district.

Our commitment to sustainable CSR operations has earned the trust of our stakeholders and contributed to our success. It has also helped us build a more resilient, sustainable and profitable business. I thank our Adani Foundation Team for their continued support and dedication to our commitment to sustainable CSR practices, as we remain focused on driving long-term value for our stakeholders, and the communities in which we operate.

With best wishes,

Rakshit Shah



CSK KUTCH



Environment Sustainability

Education

Sustainable Livelihood Development

Community Health

Community Infrastructure

Development

Community Resource Centre

Swavlamban

Adani Skill Development Centre

Flood relief work

Employee volunteering program

AKBPTL Tuna

AGEL Khavda

AGEL Dayapar & Mandvi

Adani Cement Sanghi

Events

Awards & recognition

Publication

Case Study

Beneficiaries list

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CSR HAZIRA



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Case Study

Beneficiaries list



CSR DAHEJ



Education

Community Health

Sustainable Livelihood

Development

Community Infrastructure

Development

Employee volunteering program

Climate Action

Awards & recognition

Case Study

Beneficiaries list



CSR Kutch

Demographic Details

Block	Villages	No. of HHs	Population
Mundra	61 Village	35192	153179
Anjar	6 Villages	5350	28500
Nakhtrana	22 Villages	14093	36373
Lakhpat	20 Villages	8092	18976
Khavda	22 Villages	8450	35200
Rapar	3 Villages	345	12450
Mandvi	8 Villages	2780	14560
Abdasa	12 Villages	2415	9660

- 1. Adani Ports and SEZ Limited
- 2. Adani Power Mundra Limited
- 3. Adani Wilmar Limited
- 4. Adani Wilmar Caster Limited
- 5. Kutchh Copper Limited
- 6. Mundra Solar PV Ltd
- 7. Mundra Petrochem Ltd
- 8. Adani Kandla Bulk Terminal Private Limited
- 9. Adani Solar Limited Bitta, Abdasa
- 10. Adani Green Energy Limited Nakhatrana
- 11. Adani Green Energy Limited Khavda
- 12. Adani Energy Solution Limited Rapar









Environment Sustainability

"Sustain the earth, sustain life"





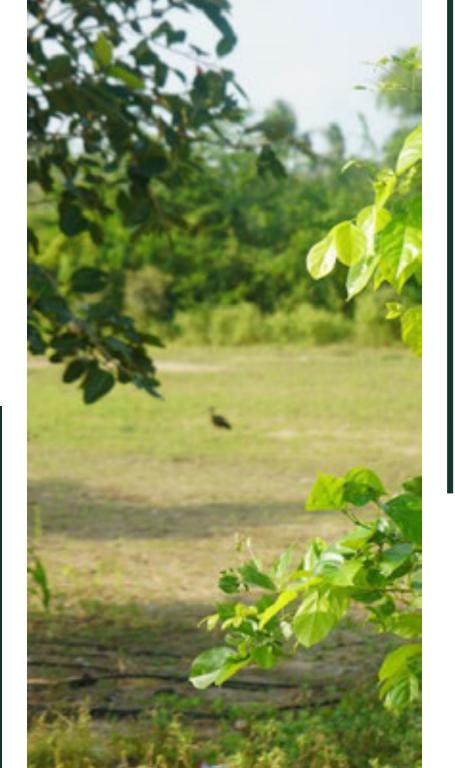




CLIMATE

for Environmental Sustainability

ADANI
FOUNDATION'S
COMMITMENT
TO A GREENER
FUTURE



In an era where environmental sustainability is paramount, our commitment to preserving and enhancing the natural world is reflected through our diverse projects. These initiatives not only address critical environmental challenges but also align with the United Nations Sustainable Development Goals (SDGs), ensuring a holistic approach to sustainable development. The Adani Foundation is dedicated to various environmental activities, working on different projects to foster a sustainable future.



Innovative Environmental Solutions for Sustainable future

Adani Foundation is dedicated to environmental sustainability through impactful initiatives that address critical challenges and align with SDGs. Comprehensive efforts in biodiversity conservation, pollution reduction, water conservation, and renewable energy are crucial for fostering a sustainable and environmentally conscious future.



TERRESTRIAL BIODIVERSITY



Project Adami Vanil Harit Paryavaran ki Ek Pahel" focuses on afforestation and community involvement, transforming barren lands into thriving forests with 88,303 plants, enhancing local biodiversity.



COASTAL BIODIVERSITY

The mangrove plantation project at the Luni coastal belt has presied 162 hectares of dense mangrove forests, providing a new habitat for various species and showcasing the area's ecological richness.

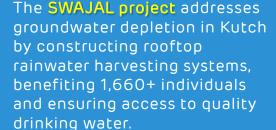
PLASTIC FREE ENVIRONMENT



This initiative educates children about plastic pollution and promotes reducing, reusing, and recycling plastic to foster environmental responsibility.



WATER CONSERVATION



SOLAR PROJECTS



Surya Ghar initiative provides sustainable energy solutions by installing solar panels, significantly reducing electricity costs and promoting environmental sustainability in rural communities.

68

Terrestrial Biodiversity Conservation

Adani Foundation is dedicated to terrestrial biodiversity conservation through comprehensive environmental initiatives. These efforts aim to enhance green cover, restore ecosystems, and promote community involvement in environmental stewardship. By focusing on large-scale afforestation and community-led green initiatives, the Foundation has significantly contributed to the ecological health and sustainability of various regions.

An overview of Adani Van:

Sr. No.	Year	Village	Асге	Total plants
1	2021-22	Nana Kapaya	2.5	5880
2	2022-23	Partappar	6	23388
3	2023-24	Rashapir	3	5350
4	2023-24	Moti Bhujpur	3	8000
5	2023-24	Desalpar	4	10000
6	2024-25	Nani Khakhar	2	800
7	2024-25	Dhrub	3	5150
8	2024-25	Nani Khakhar	2.5	7006
9	2024-25	Pipari	3	10005
10	2024-25	Borana	4	10304
11	2024-25	Khavda	1	1120
12	2024-25	Sanghi	1	1300
		12 Adani Van	35	88303



Adani Van -Harit Paryavaran ki Ek Pahel

Massive plantation drives to enhance green cover. Transformed barren lands into thriving forests, promoting sustainability.



Biodiversity Enhancement

78 bird species, 4 mammal species, 12 species of insects and reptiles. Significantly enhanced local biodiversity and ecological health.



Prakruti Rath: Community-Led Green Initiatives

Distributed 53,886 saplings, enhancing green cover. Strengthened community connection to nature and empowered environmental stewardship.



Plantation Achievements

Total Plants:

88,303 across 35 acres

Native Species:

70+ species planted









HABITAT CREATION

Mangrove plantation has successfully established a new habitat and ecosystem for numerous organisms.

BIODIVERSITY DOCUMENTATION

PhD students from various institutions have documented over 65 species from different phyla, showcasing the site's ecological richness.

MANGROVE PLANTATION

A total of 8,22,000 mangroves have been planted, contributing significantly to coastal protection and biodiversity.

ENHANCED BIODIVERSITY

The project has increased the variety of species in the area, supporting a diverse range of flora and fauna.

COASTAL PROTECTION

Mangroves act
as natural
barriers against
coastal erosion
and storm
surges,
protecting the
shoreline and
nearby

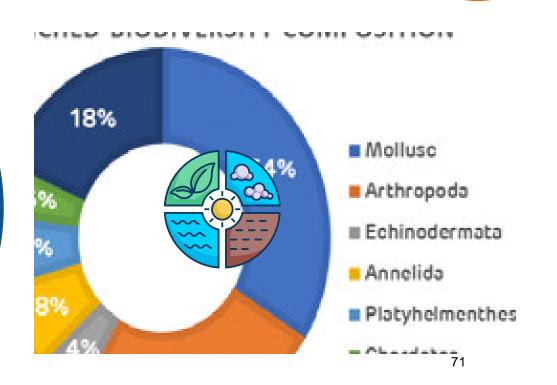
CARBON SEQUESTRATION

Mangroves play a crucial role in carbon sequestration, helping mitigate climate change by absorbing carbon dioxide from the atmosphere.



COASTAL BIODIVERSITY CONSERVATION

Since 2010, the Adani Foundation has been dedicated to enhancing coastal biodiversity through a mangrove plantation project at the Luni coastal belt. This initiative has resulted in the creation of 162 hectares of dense mangrove forests, aimed at promoting ecological sustainability and creating new habitats.



Biodiversity Knowledge & Interpretation Center



Biodiversity & Interpretation Center

The center is dedicated to educating, inspiring, and in conserving Gujarat's rich biodiverse.



Awareness Sessions

An awareness lecture was held at Adani Vidya Mandir, Bhadreshwar, with 50+ students participating.





Nursery Development

A nursery of 10,000 mangrove seeds was established at the Luni site with the active participation of local fishermen.



Workshop on Coastal Conservation

One-day workshop was held with participation of 200+ students of University.





Training Sessions

30+ Employee Training on Biodiversity Conservation at Mundra Petrochem LTD.









Nurturing A Plastic-free Generation

Adani Foundation is committed to creating a cleaner, plastic-free future through its "Plastic Free Environment" initiative. By focusing on the principles of reduce, reuse, and recycle, the foundation aims to educate children about the harmful effects of plastic pollution on ecosystems. This initiative empowers the younger generation to take proactive steps towards environmental stewardship, through community engagement and educational programs, the Adani Foundation is making significant strides in reducing plastic waste and promoting a healthier planet.

01



Plastic Free Villages

- 2 villages & 8500 individuals targeted
- ➤ 50+ local vendors, 70+ women in SHGs 325+ students were aware by sessions

02

Cost



Green School Project

Covering 75+ Schools

> 32000+ Kg Single used

plastic recycle at Zero

> 12000+ Students

US



Coastal Cleanup Day

> 200+ students and 80 Uthhan Sahayaks led to the successful cleanup of a 1 km stretch of Kashivishvnath Beach, Mandvi.

Water Conservation "Swajal Project" **Enhancing Rural** Water Resources

Adani Foundation has undertaken significant water conservation initiatives to address water scarcity and improve water availability in rural areas.

Through the creation of 737 various water structures, the project has increased water capacity by 5,400,735 cubic meters (CUM) and benefited 64,515 people. These efforts are crucial for sustainable water management, agricultural productivity, and community well-being.

Check Dam New/Renovation

- Structures: 29
- Water Capacity Increase: 1.072.332 CUM
- Beneficiaries: 30.870
- Impact: Enhances water storage and irrigation.



- Water Capacity Increase: 1.028.403 CUM
- Beneficiaries: 18,350
- Impact: Improves water retention and availability.

Rainwater Harvesting Structures (RRWHS)

- Structures: 330
- Water Capacity Increase: 3,300,000 CUM
- Beneficiaries: 1.650
- Impact: Maximizes rainwater capture and usage. Rs. 10950 yearly saved/house



Construction of Percolation Wells

- Structures: 26
- Ground Water Recharge:
- Significant
- Beneficiaries: 3,000
- Impact: Boosts groundwater levels and availability.

Structures: 209 • Ground Water

Recharge: Significant • Beneficiaries: 1,045

Bore/Well Recharge

• Impact: Enhances groundwater recharge and sustainability.





Construction of New Wells

- Structures: 8
- Purpose: Drinking Water
- Beneficiaries: 9,600
- Impact: Provides reliable drinking water sources.







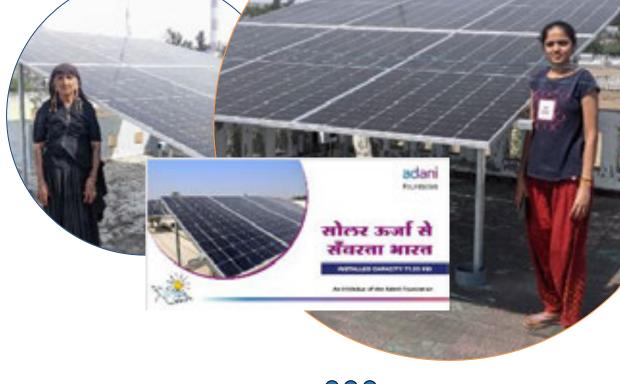


Surya Ghar Project 100% Solar Village

Adani Foundation, through its CSR initiative, has launched the Surya Ghar Project to transform 2 villages into 100% solar-powered

communities. This project aims to provide sustainable energy solutions, enhance energy access, reduce reliance on conventional power sources, and promote environmental sustainability while significantly lowering electricity costs for villagers.

The project benefits 4,500+ people.





Vision & Objectives



- Provide sustainable energy solutions for rural communities.
- Enhance energy access and reduce dependency on conventional power sources.
- Promote environmental sustainability and lower electricity costs.



Implementation

& Impact

- Solar panels installed in 2 villages, ensuring 100% solar energy under PM Surya Ghar
- Transformed villages into models of sustainable living.



Financial Impact:



- Electricity bill reduced to Rs. O per household.
- Annual savings of Rs. 12,000 per household.
- Total annual savings of Rs. 90 lakhs for 750 households.



Environmental Benefits

- Significant reduction in carbon footprint.
- Promotes clean, renewable energy.
- Serves as a replicable model for other rural communities.

















Education

"Empowering minds today for a brighter Tomorrow"

Educational Excellence: Aligned with Adani Foundation's Vision

Project Utthan, an initiative by the Adani Foundation, is dedicated to transforming the educational landscape at the grassroots level. Aligned with the Adani Foundation's vision of fostering sustainable and integrated development, Utthan aims to enhance the learning abilities and outcomes of students in government primary and high schools. By adopting a holistic approach, the project addresses various aspects of education, including foundational literacy and numeracy, capacity building for teachers, and active parental engagement.

In line with the National Education Policy (NEP) 2020, Utthan emphasizes the development of cognitive skills, critical thinking, and problem-solving abilities among students. This year, the project has introduced several innovative programs to further its mission. These include Vedica Maths and Abacus for improving mathematical literacy and logical thinking, School ©inema for value-based education, and the Children's Toy Foundation Kit to greate a joyful learning environment. Additionally, collaborations with Secure Nature and Oasis have been established to promote environmental education and foster a love for reading among students.

Through interactive teaching methods, activity-based learning, and digital resources, Utthan continues to make significant strides in improving educational standards and nurturing the holistic development of students. This commitment aligns with the NEP's vision of providing high-quality education to all, thereby contributing to character building and national development.

69 Primary Schools

12 High Schools



12,000+ student's life positively impacted





Utthan's Vision for the Future: Aligning with NEP, SDGs, & Impact Overview

Utthan is revolutionizing government primary education by transforming schools into vibrant centers of learning and development. Through innovative initiatives, Utthan introduces modern teaching methods, state-of-the-art facilities, and engaging co-curricular activities. By actively involving parents, especially mothers, as catalysts in this transformation, Utthan strengthens community bonds and enhances educational outcomes. These efforts align with the National Education Policy (NEP) 2020 by promoting inclusive, equitable, and quality education, and support the Sustainable Development Goals (SDGs) by fostering lifelong learning opportunities and community engagement.

Objectives:



Mainstreaming progressive learners



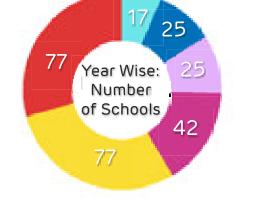
Character building by Co-curriculum activity



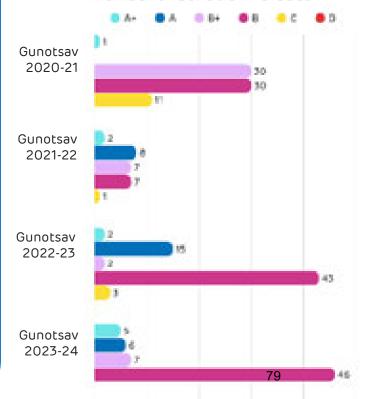
Creating joyful learning spaces



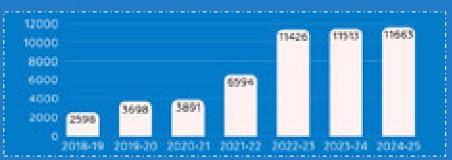
Mothers as catalyst in transformation







Utthan Year wise students' strength



Progressive learner



Teaching progressive learners involves using innovative approaches and activity-based learning to mainstream all students, focusing on foundational literacy and numeracy (FLN).

Library Activity



Conduct library activities on the first and third Saturdays of each month. To increase reading habits, we also planed reading workshops that foster a love for reading among students.

Competitive exam preparation



Prepare students for various competitive exams such as JNV, NMMS, PSE, CET, and Gyan Sadhana. Our efforts include raising awareness about these exams among the community and parents, ensuring students are well-prepared and supported.

IT on Wheels



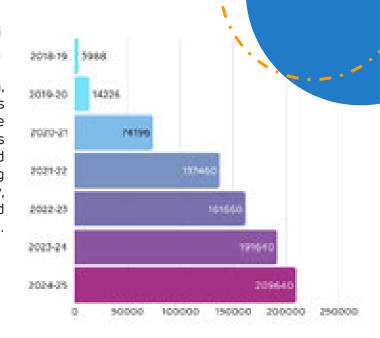
To enhance digital literacy, we introduce "IT On Wheels," a program designed to equip students with essential digital skills crucial for the 21st century. This initiative ensures that students are proficient in using technology, preparing them for future challenges.

Enriched reading corners to develop reading habits

Library books were issued twice a month, and a dedicated reading corner was established in each school to enhance accessibility. Additionally, over 1,000 books and various magazines were provided, and library activities and Oasis Book Reading Workshops were conducted regularly, enriching the reading experience and fostering a love for reading among students.

2,09,640

Books issued between students

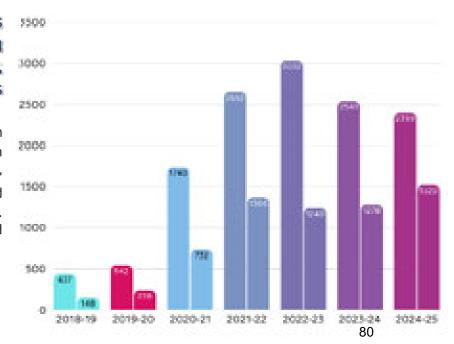


Progressive Students :Strengthening foundational literacy, numeracy and skills

A total of **6,540** students from Class 3 to 7 were assessed in reading, writing, and math skills, with **2399** students identified as needing additional support. Targeted interventions helped

1,520

students successfully integrate into regular academic programs



Utthan's Impact: A Data-Driven Overview of Utthan Initiatives

Material distribution (12k+ Students)

School Cinema 1K+ Students)

Summer camp & Diwali Mela (8K+ Students)

Career counselling (12 High schools)

Distribution of sports kits, music kits, TLM kits, and stationery kits. Value education is imparted through films that teach important life lessons and moral values.

Provide students to engage in fun and educational activities, fostering their holistic development. for 10th class students to help them make informed decisions about their future.

Children toy foundation kit (5k+ Students)

Building as Learning Aid (7K+ Students)

Day Celebration (12k+ Students)

Creating joyful environment (12k+ Students)

Mind activities to enhance students' interest and cognitive development.

BALA transforming school spaces into vibrant learning environments through creative artwork.

Initiatives to enhance cocurricular activities and create a joyful learning atmosphere. Initiatives to enhance cocurricular activities and create a joyful learning atmosphere.

Environment Education Project

In collaboration with Secure Nature & Green School Competition to educate students about environmental conservation through hands-on activities and projects.

80 Schools 12000+ Students

Adami Competitive Coaching Center

Coaching for various competitive exams, helping students prepare effectively. This includes providing study materials, practice tests, and expert guidance.

27 Schools 5000+ Students

English as Third language

Promote English proficiency as a third language, equipping students with essential communication skills that are crucial for their future academic and professional success.

69 Schools 10000+ Students

Monthly Mother Meetings

Participation of over 18,750 mothers across 750+ meetings. held in the second week of every month, focus on sharing students' progress, engaging mothers through competitions, and providing support through home visits.

80 Schools 15000+ Students

Oasis Reading workshop

Utthan sahayak get training & conduct Oasis Reading Workshops to enhance students' reading habits. These workshops are designed to foster a love for reading through engaging activities and discussions.

700+ Workshop 20000+ Students

Capacity building of teachers

Throughout the year, we plan various training sessions, including special sahayak programs to enhance Vedic Math's and Abacus skills. We also encourage government teachers to participate in these programs

150 Teachers 16000+ Hours

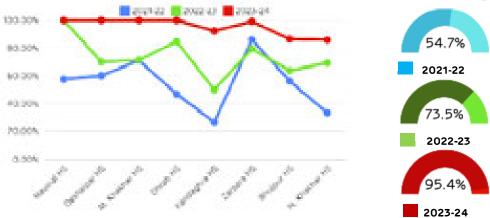
High School Result Comparison

Utthan is dedicated to enhancing board results in high schools by implementing a comprehensive approach that includes both scholastic and co-scholastic activities. These initiatives focus on the holistic development of students, fostering self-growth and significantly improving academic performance.

Yearly Comparison of 10th Board result in 8 High School (HS)

Sr. No.	High School	2021-22	2022-23	2023-24
1	Navinal HS	58%	100%	100%
2	Deshalpar HS	60%	70%	100%
3	M. Khakhar HS	71%	72%	100%
4	Dhrab HS	47%	85%	100%
5	Kandaghra HS	27%	50%	92%
6	Zarpara HS	86%	80%	99%
7	Bhujpur HS	56%	64%	86%
8	N. Khakhar HS	33%	69%	86%

Year Wise Average %





Enhancing Skills: Vedic Maths & Abacus Programs for Students

Implementation

- Abacus program introduced in 58 primary schools.
- Vedic Mathematics program introduced in 8 high schools for class 9 students.
- Fostered critical thinking and logical reasoning.

Assessment & Certification

- All students completed Level 1 and received a certificate.
- Students who completed Level 2 were also recognized.

Student Participation

- 1,607 students from classes 5-7 participated in the Abacus program.
- 1,302 students from classes 8-9 participated in the Vedic Mathematics program.

Program Impact

- Enhanced students' mathematical skills and problem-solving abilities.
- Increased student interest in mathematics.
- Sahayak participants received certificates, boosting their confidence and motivation.



Key finding of third-party assessment

The Utthan program assessment employed a quasi-experimental, mixed-methods design with prepost comparisons and stratified random and purposive sampling to evaluate student outcomes, program impact, and sustainability. The sample included 288 intervention students, 96 non-intervention students, 53 Sahayak, 30 head teachers, 30 SMC members, 30 parents, and community members, with data collected through FGDs, SSIs, and KIIs.

Univariate and bivariate analyses were conducted, and field notes were transcribed to identify themes. These themes were aligned with objectives and compared to past data to uncover discrepancies and analyze their causes.



More than 90% of the students have achieved proficiency in reading, writing and numeracy skills in Utthan Schools.



Utthan sahayak as catalyst: The introduction of Saha yaks (teacher assistants) ensures personalized student support and bridges gaps between schools and families, fostering greater parental involvement.



Sahayak have mentioned improvements in their classroom management practices, strong and parent and community management and understanding of student child development



97% of students reported improved confidence in leadership and communication and 97% of students in Utthan schools have mentioned interest in attending school.



Teachers' capacity building: Comprehensive teacher training programs enhance instructional quality, equipping educators with tools to deliver FLN-focused curriculum effectively.



Community engagement through home visits and mothers' meetings, the project strengthens parental accountability and participation, directly influencing students' motivation and performance.



Adani Vidya Mandir, Bhadreshwar

Empowering Futures through Holistic Education

Adani Vidya Mandir, Bhadreshwar (AVMB) stands as a beacon of hope and excellence, dedicated to transforming the lives through free and quality education. Aligned with the principles of the National Education Policy (NEP) and the National Accreditation Board for Education and Training (NABET), AVMB is committed to fostering an inclusive and holistic learning environment. The 2024-25 academic year has been a testament to our unwavering dedication to the Sustainable Development Goals (SDGs), particularly Goal 4: Quality Education. AVMB has successfully integrated innovative programs, dynamic student engagement, and comprehensive support systems to ensure that every child receives the best possible education and opportunities for personal growth. These efforts reflect our mission to provide a nurturing environment where students can thrive academically, socially, and emotionally.



Holistic Development & Achievements

Academic and Institutional **Developments**

- · Board exam results showcased excellent student performance, with targeted remedial sessions introduced for continuous improvement.
- The Housekeeping Training Program (May 28) emphasized cleanliness and hygiene maintenance among staff.

Teacher Development and Training

- Teacher Capacity Building Program (June 6) enhanced instructional strategies and curriculum planning.
- NABET Accreditation Training (June 12) ensured compliance with national educational standards.

Technological Advancements

- Inauguration of a New Computer Lab (Sept 27) enhanced digital learning opportunities.
- · Al and Google Gemini Training (Nov 16) prepared educators for modern teaching methodologies.













Cultural and Co-**Curricular Activities**

- World Book Day (April 23) promoted reading culture through storytelling and book exhibitions.
- International Yoga Day (June 21) emphasized mindfulness and physical wellness.

Student **Achievements**

- SVS Science Exhibition (Oct 4): AVMB students won first place for their research on screen time and its impact.
- District-Level Science Fair (Dec 9-10): Students represented Mundra Taluka with innovative projects.

Health and Safety **Initiatives**

- Menstrual Hygiene Awareness Program (June 22) educated girls on personal health and wellness.
- · School-Wide Health Check-Up (July 8) ensured early detection of health concerns.

Empowering Minds & Building Futures at AVMB

Environmental and Community Initiatives



- World Mangrove Day (July 25) raised awareness about ecological conservation.
- Fortnight-Long Swachhagrah Drive (Sept 17-30) promoted cleanliness and sustainable habits.

Student Welfare and Community Engagement

- Educational Trips (Dec 3, Feb 18-19) provided realworld learning experiences.
- First Alumni Meet SANGATH (Oct 26) strengthened ties with former students and inspired current learners.

Sports and Physical Education



- Inter-House Sports
 Competitions (Jan 3): Events
 like Kabaddi and Kho-Kho
 fostered teamwork and
 discipline.
- Khel Mahakumbh 3.0 (Jan 15): Over 77 students showcased athletic skills in multiple disciplines.

Special Recognitions and Awards



- Best Day-Boarding School Award (NSA 2024) recognized AVMB's commitment to quality education.
- Education Excellence Award (Feb 11) reinforced AVMB's role in empowering underprivileged students.

Teacher Development and Training



- Sanskarotsav Teachers'
 Training (Nov 12-14) focused
 on self-development and
 effective teaching
 strategies.
- Adobe Express Training (Jan 17) introduced teachers to digital learning tools.

Cultural and Co-Curricular Activities



- Ashadhi Bij Celebration (July 5) and Guru Purnima (July 19) reinforced cultural values.
- Kala Utsav and Kala Mahakumbh Competitions (Dec 6, 23, 24): Students excelled in music, painting, and performing arts.





AVMB Under-14 and 17 teams both won the Mundra Taluka Level Kho-Kho competitions.



AVMB: A Year of Outstanding Achievements



A project from AVMB ranked first in the Science Fair at the SVC level and second at the CRC level.



Rathod HardevSinh secured first place in the District Level Athletics Festival at the Taluka level.





At the BRC level, AVMB students won first place in Singing, Drawing, and the Group Song Competition



Students currently shaping their future through dedicated learning at the schoolents.



1171

students who have embarked on their journeys through AVMB









Inspiring Minds







Udaan Progress Report | Apr 23 - Feb 24 | Volume 2 |

www.projectudaan.in

About Project

Udaan is a special project inspired by the life-changing story of Mr. Gautam Adani. As a child, he had visited the Kandla port in Gujarat, and after looking at the expanse of the port, he dreamt of having his own port one day. The rest is history. Under this project, exposure tours are organized wherein school, college students, faculties, employees from corporates are given a chance to visit the Adani Group facilities. Under this project, services are absolutely-free of cost for government schools.

Vision

To create a pool of inspired young minds for nation building at a global scale.

Mission

To motivate young students to dream big by exposing them to world-class industrial facilities.





Total no. of Schools/Colleges/ Institutes

408

Total no. of participants

26346











Sustainable Livelihood Projects

"Empowering hands, transforming lives"











SLD - Animal Husbandry

With decreasing rainfall and rising groundwater salinity, traditional farming faces serious challenges. To support farmers and livestock owners, the Adani Foundation has taken proactive steps to strengthen agriculture and animal husbandry in nearby villages.

PASHUDHAN INITATIVE

This initiative focuses on two key areas:

- 1. Preventive Health Care
- 2. Fodder Support



PREVENTIVE HEALTH CARE

Under the Preventive Health Care program, the Foundation, in partnership with the Animal Husbandry Department, organizes regular cattle health camps across 24 villages. These camps provide veterinary check-ups, vaccinations, and treatments for common diseases. Life-saving vaccines, such as those for Foot-and-Mouth Disease (FMD) and Clostridial infections, help ensure long-term immunity and healthier livestock. Additionally, medicines and vaccines are supplied by the Foundation.

These efforts are helping protect livestock health, improve farmers' livelihoods, and build resilience in the community.





Vaccination Camp



14,056
Cattle vaccinated

1460 Deworming tablet distributed

15,000+
Cattle benefited

959 Cattle owner benefited

90

FODDER SUPPORT

The Adani Foundation's Fodder Support Program plays a crucial role in supporting nearby villages during harsh summers, droughts, and crop failures. To ensure livestock health and community well-being, we provide high-quality dry and green fodder to 24 villages.

Adani Foundation provides good quality dry and green fodder to 24 villages in our vicinity, covering 15,005 cattle of 1500+ Cattel owners.

Grass Land development:

AF converted 5 acres of desolated village common pastureland (Gauchar) into fertile and productive grassland in Zarpara village to transform into Fodder Sustain village with Community participation and responsibility for maintain and Monitoring.

Among that 5 acre of Gauchar land is fenced and sowed with Multispecies Green Fodder with Having Good nutritive value. More than 1500 Cattle will sustain with Improving quality and quantity of milk.



15,74,250kg Dry Fodder

51,66,805kg Green Fodder



15,005 Cattle benefited

1500+

Cattle owner benefited



SLD - Fisherfolk Community

Persistent efforts • for Fisherman development •





111
Cycle Support to high school going students



273
Fisherman Shelter
Support



648 Scholarship Support



195 Linkage with Fisheries Scheme



1368

Vehicle transportation Support



494

Youth Employment



3534

Ramatotasav Community Engagement



56,523

Man-Days mangrove plantation



Fisherfolk Community

holds great importance in Mundra, as they are an integral part of the coastal ecosystem and economy. Recognized as a marginalized group, we are committed to their holistic upliftment through various sustainable livelihood initiatives. Our interventions focus on enhancing their education, improving shelter and transportation facilities, supporting youth employment, and connecting them with government fisheries schemes. Through these continuous efforts, we aim to empower the fisherfolk community and ensure their socio-economic development.

Empowering Fisherfolk Communities through Education





Scholarship Support:

To uplift financially challenged communities, we extended scholarships support of Rs. 3,58,765 to 35 students, enabling them to pursue higher secondary and technical education. This support is helping break the cycle of poverty and create a brighter future for these students and their families.

Vehicle Transportation Facilities:

Ensure seamless access to education for 121 school-going children from Modhva, Tragadi, and Zarpara Bandar Fisherfolk Students in reaching the nearest School, eliminating barriers to regular attendance. Additionally, personal cycle support to 5 fisherfolk students.



Education Kits Support:

Equipping 88 fisherfolk students in HSC and Graduation with essential tools for academic success, including notebooks, guides, stationeries and study bags, we empower them to pursue their education with no financial barriers.

93

Job opportunity

Acting as a bridge between industries and fisherfolk youth, the Adani Foundation facilitated job placements for 30 fisherfolk as RTG operators, in the HR department, and as supervisors in APSEZ companies.

In the APSEZ area and colony, 45 fisherfolk youth have been offered professional painting roles. To ensure they are skilled for the role, they underwent comprehensive training in partnership with Asian Paints.

This initiative has enhanced their livelihoods and provided sustainable employment opportunities.



Awareness camp on Menstrual health:

A menstrual health awareness camp was organized for 200+ women from the fishing communities of Modhva and Tragadi villages. The program focused on educating them about menstrual hygiene, PCOD, and menopause management. It promoted healthy practices, offered guidance on managing related health issues, and distributed sanitary products to support their overall well-being.



Potable water Distribution:

Providing access of potable Drinking water Facilities to Nine fisherfolk vasahat on Daily bases, either By Water tanker or Linkage with Nearest Gram panchayat.



5000+ Fisherfolk Population are getting benefit which impact on their health and well-being

Daily Water Tanker Support:





SLD - Agriculture

BIOGAS PROJECT

In our ongoing efforts to promote sustainable and eco-friendly farming practices, we have successfully registered 863 farmers from five different talukas in the Kutch district. Each registered farmer will receive financial support of ₹9,000 for the installation of biogas plants on their farms. This initiative aims to provide farmers with a renewable source of energy, reduce dependency on conventional fuels, and improve overall agricultural productivity.



Renewable Energy Source

Biogas is a sustainable and renewable energy source that reduces dependence on fossil fuels.

Cost Savings

Farmers save on fuel expenses as biogas can be used for cooking, heating, and electricity generation.

Waste Management

Biogas plants efficiently manage agricultural waste by converting it into useful energy.

Environmental Impact

Biogas reduces greenhouse gas emissions, contributing to climate change mitigation.

Soil Health

The by-product, known as digestate, is a nutrient-rich organic fertilizer that enhances soil fertility.

Improved Livelihoods

Biogas provides farmers with additional income and energy security, improving their overall quality of life.

Key Highlights

863 Farmers

Total Farmer Registered

Rs. 9000

Financial Support to each farmer

6 Talukas

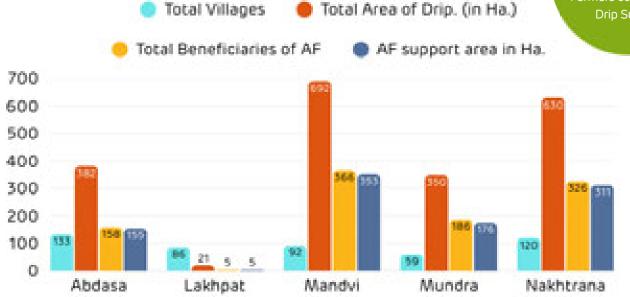
Geographical coverage in Kutch

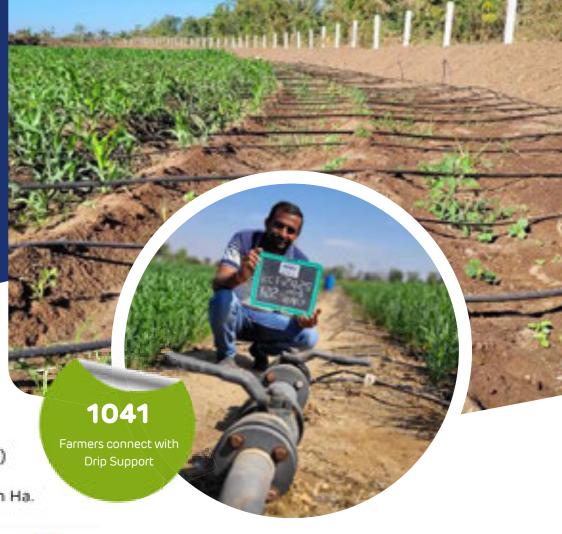


DRIP IRRIGATION: ENHANCING LIVELIHOODS IN KUTCH

The Drip Irrigation Initiative by Adani Foundation promotes efficient water use in farming by providing financial support to farmers for installing drip systems. It helps conserve water, improve crop yield, and encourage sustainable agriculture in Kutch.

Adani Foundation's Drip Support in FY - 2024-25





In 2024-25, Adani Foundation supported sustainable water management in Kutch by Promoting drip irrigation across 490 villages in Abdasa, Lakhpat, Mandvi, Mundra, and Nakhtrana talukas. Covering a total area of 2,074.53 hectares, the initiative benefited 1,041 farmers. This effort enhanced irrigation efficiency, boosted agricultural productivity, and contributed to water conservation and eco-friendly farming practices in the region.

Natural Farming

As part of our commitment to sustainable agriculture, we have focused on promoting natural farming practices to conserve soil health and enhance environmental sustainability.

Till Date

2,275

Farmers trained in Natural Farming

226

Farmers successfully transformed to 100% Natural Farming

857

Farmers linked with GOG to support cattle welfare scheme



Green Carnival

Organized an annual Green Carnival, providing farmers with a dedicated marketplace to sell their organic produce directly to consumers. This event is hosted by our employee company and attracts many buyers interested in organic products.

Sales Achievements

This year, the Green Carnival was a resounding success, with farmers selling a total of **16,241 kg** of organically grown vegetables and fruits at the event.

Rs. 6,49,640+ Total revenue

SLD - Women Empowerment

The Adani Foundation places women's empowerment at the heart of its initiatives, focusing on skill development, entrepreneurship, and self-reliance. By providing training, essential materials, and market linkages, it creates opportunities for women to enhance their livelihoods. In collaboration with government programs, the foundation strengthens Self-Help Groups (SHGs), promoting savings and sustainable businesses. It also prioritizes women's health and hygiene through targeted awareness initiatives. This holistic approach fosters economic independence, social inclusion, and overall well-being among Women in its project areas.





Self Help Groups

- 88 Self Help Groups in coordination with National Rural Livlihood Mission.
- 920+ Members
- Over Rs.39 Lacs Saving Amount Corpus



Job Sourcing - Govt

- 11 Women supported for application and process of Gram Rakshak Dal, Bank Sakhi, Bima Sakhi and Professional Resource Person.
- Average income Rs.7500 Per Month



Making SHG Self Reliant

- 16 SHG are making strides towards self-reliance. Various handicraft, dry and fresh food making, stitching, tie and die etc.
- 175+ women Monthly average income @ Rs.7000 of each member/Month



Social Empowerment

- 4 Livelihood Enhancement Training through RSETI
- Financial support for business set up
- Legal rights and domestic violence workshops
- Family counselling for Job sourcing



Job Sourcing - Private

- Coordination for Job by Unnati Portal with Adani Group company companies, Britania, B Medical and Emphazer company
- 758 Women supported till date for job sourcing.
- Average income Rs.10,800 Per Month





Name of IG activity of SHOW/JUNFFO's	Income 2023- 24 (INR)	Cumulative income (INF)
Sonal Saheti	338700	3378700
Sanitary Pad Saheli	25,600	282,266
Tejasvi Saheli	149200	4,454,250
Umang Saheli	54300	291100
Madhay Saheli	39600	549200
Soof Saheli	92000	153000
Meghadhanush Sahati	458000	685090
Saheli Swa sahay Juth	105425	902850
Radhe Saheli	44500	924918
Shrddha Sahali	2600000	5179000
Chamunda Saheli	26900	1755700
Food Sister Sahlei	1755700	2640200
Jyot Saheli	44199	89199
Pantjanpir gay Sahali	467000	1658000
Total	6201124	98 443473

"CHETNA"

Initiative with gender diversity

The Adani Foundation, in partnership with Unnati Portal and Adani Solar, launched the "CHETNA" initiative, aimed at promoting gender diversity by creating equal opportunities for women from Kutch to pursue employment and personal development.

Understanding the cultural and social barriers faced by women in the region, the Foundation took proactive steps to mobilize and counsel potential women candidates. Special efforts were made to engage with their parents, addressing concerns and building trust to encourage families to support women's participation in interviews and formal employment. To ensure smooth onboarding, the Foundation also provided travel assistance and interview support. As a result of these focused efforts, today 614 women from Kutch are successfully employed at Adani Solar, marking a significant step towards their economic empowerment and fostering gender diversity in the workforce.

₹ 1.8 Lakhs/annum
12th pass candidates

₹ 2.16 Lakhs/annum Graduate candidates

Technical Associates



Highlights of the Work done by our SHG!

Sathwaro'24

Powering Art, Empowering Artisans

3 women SHGs from Adani Foundation Mundra participated in the prestigious Sathwaro Mela at the Belvedere Club, Ahmedabad, showcasing Mud Art, Bead Art, and Soof Art, along with two artisans specializing in Rabari and Doori work, achieving an impressive turnover of Rs.1,30,000/-





New Stitching Centre

Livelihood opportunities for local women

In Vandh Village, by providing advanced stitching and embroidery training, the new stitching center empowers women with skills and employment. Equipped with 11 modern machines, women are producing 5,000 bags, gaining financial independence and professional confidence.

Women empowerment initiative

Adani Foundation is empowering rural women through skill training, exposure visits, and SHG formation, enabling them to achieve financial independence and entrepreneurship.



Skill Training

Stone Dust Art Training Mud Art Training Beauty & wellness Training

@ 100+ Local women empowered



Exposure Visit

Visit to Welspun Stitching Centre for women to learn about stitching enterprises



New SHG Formation

"Madhav Saheli" a Food service SHG
"Gopinath Saheli" a Tailoring SHG
"Suidhaga" a Tailoring SHG





CELEBRATED INTERNATIONAL WOMEN'S DAY WITH

1,000 LAKHPATI DIDIS

On 5th March, Adani Foundation celebrated the strength and resilience of women by marking International Women's Day with 1,000 Lakhpati Didis. The event highlighted the Foundation's ongoing efforts to empower rural women through meaningful livelihood opportunities. Over 614 women have been connected with job opportunities at Adani Solar, while 850+ women entrepreneurs received support to grow their businesses.

Women from across Kutch shared their inspiring journeys of transformation, made possible by the Foundation's initiatives.

The celebration was graced by 9 international ambassadors who applauded the impact of these programs. Chief Guest Manisha Chandra - IAS (Principal secretary, Rural Development) had given motivation speech. Ms. Ami Shah (Director, Adani Public school) had appreciated efforts of Adani foundation and Adani solar for supporting Rural women and opportunities to grow as a technical associates in Adani Solar Mundra.

MENSTRUAL HYGIENE AWARENESS

Adani Foundation is dedicated to educating and empowering rural girls and women from marginalized communities about menstrual health.

We aim to break negative social stigmas around menstruation and improve their overall well-being.

61 Villages covered

8300+

School girls & women participated













"A healthy community is a strong community"









Community Health

Good health is the foundation of a progressing community. In Kutch, the Adani Foundation is committed to improving healthcare access through partnerships with Adani G.K. General Hospital in Bhuj and Adani Hospital in Mundra.

For over a decade, we have supported communities with Mobile Health Care Units, Rural Clinics, and Ayushman Card linkages.

In response to rising cases of viral, kidney, and orthopedic diseases caused by salinity ingress, we have organized specialized health camps to provide treatment and raise awareness about prevention. By focusing on both preventive and curative healthcare, we strive to ensure long-term well-being and economic stability for the communities we serve.



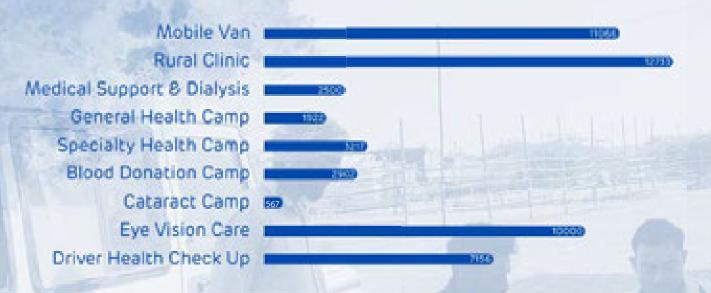








Our Service



Adani Hospital Mundra Pvt. Ltd.

OPD IPD TOTAL
43183 2419 45602



Rural Clinic Services

To enhance healthcare accessibility in rural areas, Rural Clinics have been set up in 5 villages of Mundra and 2 villages of Mandvi Block. These clinics offer regular medical consultations, basic treatments, and preventive care services. They play a crucial role in bringing consistent healthcare support to communities that otherwise have limited access to medical facilities.

12,733 patients benefited



The Adani Foundation operates Mobile Health Care Units that provide essential healthcare services to 29 villages and 7 fishermen settlements in Kutch. These units are equipped with diagnostic tools for blood pressure, sugar testing, and ECG, along with 90+ lifesaving medicines. By offering affordable healthcare at just ₹20 per visit, the MHUs ensure that primary healthcare reaches even the most remote communities.

11,066 patients benefited









Financial Assistance for Critical Illness

Understanding the burden of lifethreatening diseases on economically weaker families, the Foundation provides financial support for patients suffering from heart, liver, kidney diseases, and cancer. In the current year alone, 45,602 patients from Mundra, Mandvi, and Anjar Blocks have received critical medical assistance at Adani Hospital, Mundra, in collaboration with Adani GK General Hospital, Bhuj.

45,602 patients benefited



General Health Camp

It aims to make quality healthcare accessible to underserved communities by providing free consultations and basic medical services. Doctors conducted health check-ups, including blood pressure monitoring, respiratory assessments, and screening for seasonal illnesses. Patients were also provided with necessary medicines on the spot, ensuring timely treatment and care. Such camps play a vital role in promoting health awareness and addressing common health issues in rural areas where access to healthcare is limited.

1922 patients benefited



Specialty Health Camp

It organizes to support focused medical care to rural communities through consultations from specialists such as gynecologists, pediatricians, orthopedists, ophthalmologists, and physicians. The primary objective is to address critical health issues among women and children, particularly during pregnancy, to prevent maternal and infant mortality. Additionally, Specialty Health Camps are organized promptly in response to disease outbreaks in villages, ensuring quick medical support and controlling the spread of illnesses.

3217 patients benefited







Eye Vision Care Initiative

This year, Adani Foundation, in collaboration with Vision Spring, has launched a comprehensive Eye Vision Care program to address uncorrected refractive errors and improve eye health in the community. The initiative focuses on students ("See to Learn"), SHG women ("See to Earn"), and APSEZ drivers ("See to Be Safe"), ensuring better education, livelihood, and road safety. It also promotes "Vision for All" across the community. It is a holistic eye care campaign starting from the process of registration to eyeglass dispensing, and cataract surgery support.

10,000 patients benefited



Menstrual Hygiene Awareness Camps

Promoting health and dignity among adolescent girls and women, menstrual hygiene awareness camps are regularly organized in schools and community centers. These sessions focus on educating participants about menstrual health, hygiene practices, and breaking cultural taboos. Sanitary pads are also distributed to encourage proper menstrual care and improve overall health outcomes for women and girls.

Cataract-Free Mundra Initiative

To combat vision loss among the elderly, the Cataract-Free Mundra campaign has screened 567 individuals at the village level. Patients identified with cataracts are referred to GK General Hospital, Bhuj, for surgery, followed by post-operative care and follow-ups. This initiative has restored vision for many senior citizens, helping them regain independence and quality of life.

68 successful cataract operations







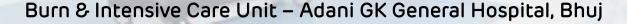
Facility Highlights of Burn Care Center

- 26 General Beds + 4 ICU Beds.
- Major & Minor OT (Operation Theatres).
- Dressing Room for burn wound management.
- 24×7 Emergency Services.
- Built as per Government District Hospital Standards.



INCREASE THE SURVIVAL RATES





The Adani Foundation, with funding support from Mundra Petrochem Limited (MPL) and Kutch Copper Limited (KCL), has established Kutch's **first-ever Burn & Intensive Care Unit** at Adani GK General Hospital, Bhuj. This state-of-the-art facility addresses a critical healthcare gap in India's largest district, where no specialized burn care previously existed. The center offers immediate and affordable treatment for burn injuries and plastic surgeries, reducing the risk of infections and saving lives by eliminating the need for patients to travel long distances to cities like Ahmedabad or Mumbai.

It is a significant step toward strengthening healthcare infrastructure, benefiting over 22 lakh people in Kutch by providing timely, quality care and easing financial burdens on affected families.





Community Infrastructure Development

"Infrastructure that connects, empowers, and sustains"







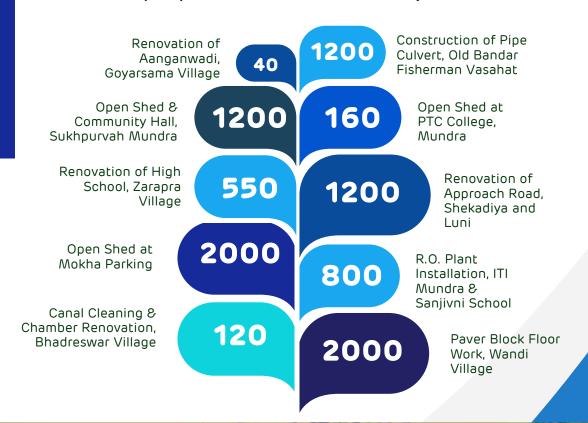


Community Infrastructure Development



The Adani Foundation has been actively engaged in enhancing community infrastructure through various civil development projects. significantly improving the quality of life for residents. Key initiatives include the renovation of educational facilities, the construction of community gathering spaces, and strategic water management solutions. Upgraded schools now provide better learning environments, while newly built community halls and open sheds serve as essential spaces for social and cultural gatherings. Water infrastructure improvements, such as pipe culverts, have mitigated flooding risks and enhanced accessibility. Additionally, the installation of R.O. plants in educational institutions ensures access to clean drinking water. These initiatives align with global sustainability goals, fostering long-term community resilience and inclusive development.

CID projects & its beneficiary's tree





CID - Key Community Infrastructure Developments







Educational Facility Renovations

- High School, Zarapra: 550 students benefited.
- Aanganwadi, Goyarsama:
 40 students benefited.
- High School, Desalpar: 550 students benefited.
- Kasturba Girls Hostel, Desalpar: 150 girls benefited.

1290



Community Gathering Spaces

- Open Shed & Hall, Sukhpurvah Mundra: 1200 people benefited.
- Gathering Place, Wandi: 2000 people benefited.
- Open Shed, Mokha Parking: 2000 people benefited.
- Open Shed, Tuna: 600 people benefited.

5800



Infrastructure Improvements

- Pipe Culvert, Old Bandar:
 1200 people benefited.
- Box Culvert & CC Road, Zarpara: 12000 people benefited.
- Approach Road, Shekadiya
 Luni: 1200 people
 benefited.
- Approach Road, Vadi Vistar: 800 farmers benefited.

15200



Water Management Projects

- Percolation Well, Mota Bhadiya: 80 farmers benefited.
- Percolation Bore Cleaning, GPVC Villages: 3150 farmers benefited.
- Pond Deepening & Road Cleaning, GPVC Villages: 6KM cleaned.

3230



Sanitation and Health Initiatives

- R.O. Plant, ITI Mundra 8 Sanjivni School: 800 students benefited.
- Toilet Block for Disabled GPVC Villages: 5 families benefited.
- Painting & Office Work CHC Mundra: 14600 people benefited.

15430

Community Resource Centre

The Community Resource Centre (CRC), located at the Adani Field Office in Baroi, serves as a vital bridge between government schemes and the beneficiaries who need them most. Functioning as a single-window solution, the CRC provides support for online applications and documentation, ensuring that eligible individuals can access various welfare schemes with ease.

Through the facilitation efforts of the Adani Foundation, a total of 2,334 beneficiaries are currently receiving aid under multiple government programs, including Widow Pension, Senior Citizen and Divyang Pension, and the Palak Mata Pita Scheme. This support results in a combined aid of Rs. 3.37 crore monthly.



Rs. 3.37 crore
monthly aid to
2,334
beneficiaries







	1 Widow Pension 1250 762 24785100 2 Bal seva Ayog 2000 49 3430000 3 Divyang pension 1000 35 670000 5 Niradhar Pension 1000 160 4163000 6 Palak Mata Pita 3000 5 696000 7 Bus pas Free ST 481 Disyang Govt											
Sr. No	Scheme Detail		The second secon									
111	Widow Pension	1250	762	24785100								
2	Bal seva Ayog	2000	49	3430000								
3	Divyang pension	1000	35	670000								
5		1000	160	4163000								
6	Palak Mata Pita	3000	5	696000								
7	Bus pas	Free ST	481									
8	Divyang Govt sadhan sahay	14.5	175	-								
9	Divyang certificate		667	*								
	Total		2334	31244100								

Swavlamban

"A step towards inclusivity"

'Mangal Seva' for Divyang Women

What is 'Mangal Seva' initiative?

On the auspicious occasion of Jeet Adani Sir's wedding, Adani Foundation launched Mangal Seva, a meaningful initiative aimed at empowering differently-abled married women. This transformative program is a reflection of the Foundation's commitment to inclusive and sustainable development.





Under this initiative,
the Adani foundation
has pledged annual
financial assistance of
₹10 lakh to 500
married female
divyangs.



₹10 lakh support to 500 female divyangs



Impact

- Ensuring a future of dignity, security, and stability for beneficiaries.
- Strengthening inclusivity and social upliftment through impactful support.

Advancing Sustainable Mobility: Electric Vehicle Initiative

Adani Foundation has introduced a highly advanced electric vehicle (New Motion Company) support program, a significant step towards sustainable and inclusive mobility.

Advance Electric vehicle support to

48 Divyangs



Livelihood tools support to divyangs

Independence, dignity, and sustainable income opportunities to

50 Divyangs

Through community outreach,
50 beneficiaries were
identified and supported
through electric tricycles,
wheelchairs, and manual
tricycles to enhance mobility,
along with other livelihood
support such as sewing
machines, electrician kits, and
handcarts to promote selfemployment. Customized
support ensured tools
matched individual needs.



AF livelihood support to 1140+ Divyangs

Supported
2104 divyangs
in availing 3144
Government services





On the occasion of World Divyang Day, Adani Foundation celebrated the spirit of empowerment at the Swavlamban event held at Gujarat National Law University, Gandhinagar.

The Adani Foundation announced the **support of 1,152 technical kits to divyang students across all ITIs in Gujarat** and showcased its decadelong journey of supporting divyang individuals, particularly in Kutch. As part of this significant event, we also launched the book Swavalamban, which captures the entire journey of the Adani Foundation's initiatives for people with disabilities. The book also features the inspiring case studies of individuals who, with our support, have achieved financial self-sustainability.

Chief guest Bhanuben Babariya (Cabinet minister, Social Justice & Empowerment, Gujarat), along with other dignitaries, praised the Foundation's efforts.

Mr. Jeet Adani sir, Director of Adani Group, emphasized the group's unwavering dedication to empowering divyang persons through sustainable initiatives in areas like education, skill development, and livelihood opportunities.



World Divyang

2024

Day Celebration

ADANI SKILL DEVELOPMENT CENTER

The Adani Skill Development Center (ASDC) in Bhuj and Mundra is dedicated to creating a future fueled by a skilled and empowered Indian workforce, driving economic growth. Focused on bridging the gap between industry demands and workforce capabilities, ASDC offers high-quality vocational training, fosters innovation, and promotes entrepreneurship. The center's impact is significant, with 887 students in Bhuj & Mundra, where 70% of participants are female, and 258 technical trainees already placed in diverse roles such as General Duty Assistant and Domestic Data Entry Operator etc. Six placement drives and 24 quest lectures have further supported career opportunities. In Mundra, courses like RTG Crane Operator, Tally with GST, and Beauty Therapist training have drawn strong participation, especially among women, resulting in 135 placements in beauty therapy alone. By equipping youth with relevant skills, facilitating job opportunities, and empowering women, ASDC plays a vital role in driving inclusive growth, promoting gender equality, and contributing to the region's economic progress.



Catalysts of Change: Empowering Lives, Creating Opportunities



Vision and Mission

Awareness and Outreach Comprehensive Training

Strategic Implementation

Job Placement and Impact

ASDC aims to empower youth with essential skills, fostering economic growth and enhancing employability through strategic training programs.

Educating youth on the importance of skill development through workshops, seminars, and community engagement initiatives.

Offering a variety of skill enhancement programs tailored to industry needs, ensuring participants gain relevant and practical skills.

Utilizing a professional framework to design and deliver training, ensuring quality and consistency across all programs

Facilitating job placements for trained individuals, measuring the impact on local employment rates and economic development.



ASDC - MUNDRA

Course Name	Female	Male	Total
JOC (RTG Crane Operator)	00	140	140
DDEO	30	14	44
Tally with GST	01	00	01
Beauty Therapist	134	00	134
Painting/Drawing Training	06	09	15
German Language	02	00	02
Advance Excel	01	10	11
Mud Work	40	00	40
Dori Work	40	00	40
Total	254	173	427

ASDC - BHUJ

Course Name	Female	Male	Total
GDA	140	20	140
DL	07	00	07
EDP – Tie up with CED	40	05	45
Skill Up gradation	90	60	150
Domestic Data Entry Operator	61	01	62
First Aid	31	05	36
Total	369	91	460

Empowering Skillsfor a Brighter Future

RTG Crane Operation Data & Financial Management Skill Enhancement Programs 02 03 Includes DDEO & Tally with Encompasses all the above Essential for port operations, GST, critical for accurate data programs, ensuring a wellensuring safe and efficient management and financial rounded skill set for various cargo handling. compliance. industries. **Artistic and Craftsmanship** Language and Software Personal Care and Safety **Proficiency** Development 04 06 Covers Beauty Therapist and Includes Painting/Drawing Covers German Language, Advance Excel, and EDP – Tie up First Aid, important for Training, Mud Work, and Dori with CED, boosting communicpersonal care industry and Work, enhancing creativity ation and technical skills. essential safety knowledge. and traditional crafts.

Adani Foundation's Flood Relief Efforts in Mundra Taluka

In late August 2024, Gujarat faced severe flooding caused by a deep depression that intensified into Cyclonic Storm Asna. The Mundra region of Kutch was severely affected by this natural disaster. In response to the critical situation, the Adani Foundation initiated an extensive relief operation to support the communities in Mundra Taluka.





Emergency Food Aid



- 1,000 food packets distributed to stranded truck drivers in the APSEZ area.
- 500 food packets provided to 6 labor colonies, supporting workers and their families.
- 1,000 food packets delivered to the Sub-District Magistrate's office for the local population.
- 1,200 ration kits supplied to the Municipality of Mundra.



Health Care Support

- Medical camps organized to address flood-related health issues.
- 157 patients treated for skin diseases, fever, and cold in labor colonies and affected areas.
- Health awareness sessions conducted to prevent the spread of diseases.



Civil Work & infrastructure Recovery

- Machinery and logistical support provided to the Municipality and Farmer groups.
- Assistance accelerated debris clearance and infrastructure restoration efforts.

The Adani Foundation's quick response and comprehensive relief efforts provided much-needed support to the people of Mundra Taluka, helping them recover from the devastation caused by the floods. Through food distribution, health care, and civil work, the foundation played a vital role in rebuilding the community.

Employee Volunteer Program

Caring for Thalassemia Children

On the occasion of the Adani Foundation's 28th anniversary, employees came together in a heartfelt gesture to support children battling thalassemia. As part of the Employee Volunteer Program, nutritional kits were distributed to **153 thalassemia patients** on August 11, 2024, bringing comfort and hope to these young fighters. This initiative highlights the power of collective compassion, with employees extending their care beyond the workplace to make a meaningful difference in the lives of vulnerable children.

The event was graced by Mr. Dipeshbhai Shroff (President, Kutch Navnirman Abhiyan) and Mr. Dilipbhai Deshmukh (Social Leader and Organ Donor), who applauded the spirit of volunteerism and community service demonstrated by Adani employees.



Annexure – 3

REGIONAL LEVEL POLLUTION RESPONSE EXERCISE REPORT

OFF VADINAR ON 14-15 OCT 24

TABLETOP EXERCISE- 14TH OCT 2024

Below team members participated in Tabletop exercise organized by ICGS Vadinar at Hotel Vishal International, Jamnagar on 14th Oct-24:

- 1. Vikram Pratap Singh Radio Officer
- 2. Ramdas Pawale Marine Diver

AT SEA PR EXERCISE- 15TH OCT 2024

Venue: Off Vadinar

Exercise conducted by: Indian Coast guard

Resource agencies and stake holders involved:

- 1. M/S Adani Port & SEZ, Mundra
- 2. Indian Oil Corporation LTD, Jamnagar
- 3. M/S Nayara Energy LTD VOTL, Vadinar
- 4. M/S Reliance Industries LTD, Sikka Jamnagar
- 5. M/S Essar Bulk Terminal, Salaya

Manpower Attendees:

- 1. Capt. Prasoon Roy Marine Pilot
- 2. Ayush Jha SPM Maint. (Assist. Manager)
- 3. Mr. MP Choudhary Diving In charge
- 4. Vikram Pratap Singh Radio Officer
- 5. Yugul Kishor Sharma Mooring Master
- 6. Pradeep Pandey Supervisor
- 7. Shashikant Padave Tanker Seaman
- 8. Narayan Tamhankar Tanker Seaman
- 9. Dhruvas Patekar Tanker Seaman
- 10. Monu Rai Tanker Seaman
- 11. Santosh Rasam Tanker Seaman
- 12. Sandeep Kumar Diver
- 13. Som Kumar Diver
- 14. Ajay Kumar Diver
- 15. Suresh Kumar Diver
- 16. Khagendra Dewangan HMEL
- 17. Shashi Kumar HMEL/VIRAJ
- 18. Kuldeep HMEL/VIRAJ
- 19. Pavan Sharma HMEL/VIRAJ
- 20. Kulbir Singh HMEL/VIRAJ
- 21. Sunil K Maurya Sea Care
- 22. Rakesh Kumar Sea Care
- 23. Swapnil Sutar Sea Care
- 24. Sunil Gupta Sea Care

Tugs & Crafts

- 1. Dol 11 Crew with Master
- 2. Tug KB 48

Statement of facts

0500 hrs.: Tug KB 48 left SPM & started proceeding to Vadinar for exercise.

0548 hrs.: Tug Dol 11 with crew and attendees left for Vadinar for Regional Level Pollution Response exercise from Ro-Ro pontoon.

0642 hrs.: Tug Dol 11 informed Vadinar Port Control that Tug Dol 11 & Victor will be entering Vadinar port limit for Regional Level Pollution Response exercise.

0700 hrs.: Tug Dol 11 arrived at coast guard given position.

0710 hrs.: Briefing of drill carried out.

0750 hrs.: Informed ICG vessel Samudra Pawak (Victor1) on VHF Ch-67 that Tug Dol 11 arrived at specified location 2 cable south of 22 34.00 N 069 43.10 E. Samudra Pawak (Victor1) advised to keep watch on VHF CH 67 for further communication.

0930 hrs.: Tug Dol 11 communicated with ICG vessel Samudra Pawak (Victor1) for launching boom to demonstrate 'U' shape boom configuration. ICG vessel Samudra Pawak (Victor1) advised to commence launching boom.

0932 hrs.: Commence lowering boom.

0950 hrs.: Completed lowering boom (5 section 250 m in length).

1005 hrs.: U-formation of boom completed. Same informed to ICG vessel Samudra Pawak (Victor1) . Victor 1 advised maintaining position with 'U' shape boom configuration.

1015 hrs.: Skimmer & floating storage tank deployed in water.

1150 hrs.: The whole operation observed by ICG vessel Samudra Pawak (Victor1) and appreciated the quick and professional response from Dol-11. The Coast guard advised to start securing gears & break off from position.

1200 hrs.: Drill called off.

1205 hrs.: Secured all deployed equipment and started recovering boom.

1235 hrs.: Completed recovering boom and vessel started proceeding to Mundra. Same informed to Vadinar port control and ICG vessel Samudra Pawak (Victor1).

1240 hrs.: Debriefing of drill carried out.

1400 hrs.: Dol 11 arrived Mundra port. Tug KB 48 arrived at IOCL SPM.

Tabletop & Drill Exercise Snap - 14th-15th Oct 2024

TABLETOP EXERCISE AT HOTEL VISHAL INTERNATIONL, JMANAGAR ON 14TH OCT 2024

Tabletop exercise





DRILL EXERCISE OFF VADINAR ON 15 OCT 2024

Initial debriefing of drill







Lowering boom (5 section 250 m in length)

U- formtion making in progress

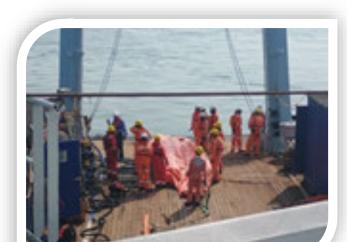




U-formation completed



Brush skimmer operation



Floating storage tank deploying

Operation observed by ICG vessel Samudra Pawak (Victor1)



Commence recovering of boom



Completed recovering of boom





APSEZL Mundra PR Team on Tug Dolphin -11

Annexure – 4

MOCK DRILL POLLUTION RESPONSE TRAINING/EXERCISE- 2025 REPORT 06 FEB 2025

Date : 06 Feb 2025	Exercise: PR Exercise
Name: Mr. Saket Kumar	Position: Radio Officer
Contact Number: 7874604321	Location: APSEZL, Mundra

Date: 06 Feb 2025: Final Planning of Exercise

0900-1030~hrs: Pre Exercise briefing carried out at SPM Store to all participants of APSEZ Mundra .

Date: 06 Feb 2025 - Mock OSR drill

Location- Near MICT TURNING CIRCLE (22° 44.63'N 069° 43.1' E)/APSEZL, Mundra

Drill Activity Timeline:

- 1100 hrs.: Tug KB 48 reported to Marine Control and Dol 11 that an Oil patch observed in MICT Turning Circle.
- 1101 hrs.: Marine Control informed Marine HOD/HOS and all concerned departments.
- 1102 hrs.: Dol 11 was informed to pick up OSR team from RORO and proceed to sight immediately.
- 1115 hrs.: Dol 11 reached on site and commenced boom deployment.
- 1015 hrs.: Informed commercial team (Mr. Jagdish Rabadia), environment cell (Mr. Radhe Shyam Singh) and Liquid Control Room by Mr. Sudhakar Singh about the drill/incident to be in immediate readiness.
- 1120 hrs.: All vessels and crafts movements suspended in effected area.
- 1125 hrs.: Marine Control informed Tug Dol 17 & 18 to standby with OSD for spraying.
- 1130 hrs.: Marine Control informed Barge BB-10 along with Tug Dol 10 to be stand by.
- 1130 hrs.: Security department were informed to allow entry of authorized persons, emergency vehicles without any delay and OHS/Adani hospital to be on alert.
- 1145 hrs.: Dol 11 informed that spill is spread in an area of around 35-50 m^2 .
- 1200 hrs.: Dol 11 reported 150m boom deployed and continued to deploy the remaining 100 meters and reported wind Ely 5-6 knots.

- 1215 hrs.: Dol 11 reported 250 m boom deployment completed and commenced J-formation.
- 1245 hrs.: Dol 11 reported J-formation completed, and oil containment is in progress and commenced skimmer deployment and this is HSD so it is volatile in nature, hence deploying resources to contain.
- 1255 hrs.: Liquid team informed Marine Control that the motor pump and other equipment is standby at RORO.
- 1305 hrs.: Recovery of 50 Ltrs spilled oil completed.
- 1310 hrs: Recovered oil stored in Drum.
- 1315 hrs.: Drill called off and at the same time informed all concerns.
- 1320 hrs.: Boom recovery started.
- 1325 hrs.: Area assessed by diving team for recovered oil and confirmed all clear.
- 1330 hrs.: Informed environment team for water sampling of spillage area.
- 1345 hrs.: Environment team informed that area is clear of oil and no harm for sea.
- 1345 1415 hrs.: De-briefing carried out onboard Dol 11.

Personnel & Boats Participated in Drill

- 1. Capt. Hemant Dhruv-APSEZL
- 2. Capt. Prasoon Roy-APSEZL
- 3. Ayush Jha-APSEZL
- 4. Yugul Kishor Sharma-APSEZL
- 5. Ramdas Pawale-APSEZL
- 6. Shubham Sonagara-APSEZL
- 7. Meet Patel-APSEZL
- 8. Saket Kumar APSEZL
- 9. Vikram Pratap Singh-APSEZL
- 10. Prem Kumar Pabbisetty-APSEZL
- 11. Abhishek Panda-APSEZL
- 12. Shubham Agre-APSEZL
- 13. Radheshyam Singh-APSEZL
- 14. Javesh Parmar-APSEZL
- 15. Harsh Parmar-APSEZL
- 16. Members from M/s Sea Care 02
- 17. Crew of Tug Dol 11
- 18. Crew of Tug KB 48
- 19. Tug Dol 10 17 and 18.

Drill Performance Monitoring:

SI. No	Activity	Time Taken
1.	Time taken to shift OSR	NA / 200-meter Fence boom and
	equipment from SPM Store to	1- skimmer is kept 24 x 7 on Tug
	load on DSV tugs	Dol 11.
2.	Time taken for Tug cast off from	NA
	time information given.	
3.	Time taken from tug cast off to	NA
	Reach at Location.	
4.	Time taken for deploying 250-	30 min.
	meter boom and skimmer after	
	reaching at site.	
5	Time taken for J/U formation and	11 min.
	deployment of skimmer.	

Observations:

SR. NO	POINTS	ACTION TAKEN	TARGET DATE	RESPONSI BILITY	REMARKS
1	Internal communication between Dol 11 and KB48 should be streamlined.	Point discussed during de-brief	10.02.2025	Dol 11	
2	The Boom laying area to be clear of obstruction	Point discussed during de-brief	10.02.2025	Dol 11	
3					

Pre Exercise Briefing - 06 Feb 2025

Pre Exercise briefing at SPM Store



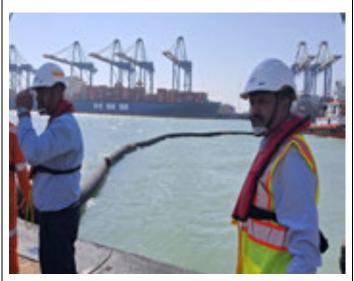


PR Drill snap - 06 Feb 2025

Boom laying from Tug Dol 11



J formtion making in progress







De-briefing onboard Dol 11



Annexure – 5



Mottlett Beeng Environmental Laboratory under The EPA, 1366-(02.04.3023 to 29.03.2038)

NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Tening Laboratory (TC-1):3450 (22.0); 2023 to 22.00,2024)

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Email: response@uerl.in Website: www.uerl.in

Plot No.54; Wireld Business Perk. NH NO.48. GLDC., Vept-356395 Drist-Valuari (Gugarat), India Phone + 91 260 2411966/2425610

INCH STORY . INCH 4500X: JULIE CAVERAGE

MARINE WATER MONITORING SUMMARY REPORT

RESULTS OF MARINE WATER [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR.	TEST	UNIT								- 14 22 4			Mar-2) F	TEST METHOD
NO.	PARAMETERS	0.1.	Oct-		Nov-2		Dec-2		Jan-25		Feb-25				. 137 111211130
			SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
1.	рН		2.7	BDL(MDL	2.8	BDL(MDL	2.5	BDL(MDL	2.7	BDL(MDL	2.8	BDL(MDL	3.1	BDL(MDL	IS 3025(Part 11)
				:1.0)		:1.0)		:1.0)		:1.0)		:1.0)		:1.0)	:2022
2.	Temperature	°C	7.04	6.73	6.9	6.8	6.82	6.72	6.75	6.65	6.81	6.71	6.66	6.57	IS 3025
															(Part 9):2023
3.	Total Suspended Solids	mg/L	35.65	36.71	35.74	36.51	36.02	36.74	36.12	36.81	36.18	36.88	36.22	36.94	APHA 24th Ed., 2023,2540- D
4.	BOD	mg/L	BDL(MDL	BDL(MDL	BDL(MDL	BDL(MDL	BDL(MDL	IS 3025							
	(3 Days @ 27°C)	6/ =	:2.0)	:2.0)	:2.0)	:2.0)	:2.0)	:2.0)	:2.0)	:2.0)	:2.0)	:2.0)	:2.0)	:2.0)	(Part 44):2023
5.	Dissolved	mg/L	2.42	2.1	2.32	2.93	2.74	2.58	2.9	2.74	2.74	2.58	2.58	2.26	APHA 24th
	Oxygen				2.32	2.33	2.,, 4	2.30	2.3	2.,,4	2.,4	2.30	2.30	2.20	Ed.2023,4500-O, B
6.	Salinity	ppt	0.391	0.348	0.379	0.31	0.413	0.391	0.348	0.304	0.326	0.304	0.304	0.283	By Calculation
7.	Oil & Grease	mg/L	3.39	3.32	2.59	2.32	3.39	3.26	3.9	3.8	3.59	3.48	3.64	3.53	IS 3025 (Part 39)
		<u> </u>													:2021
8.	Nitrate as NO ₃	μmol/L	1.37	1.26	1.16	1.05	1.37	1.26	1.05	BDL(MDL	1.37	1.16	1.16	1.05	APHA 24th Ed.
										:0.4)					2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	6.201	5.768	5.289	5.56	6.543	6.231	7.148	6.844	6.656	6.364	6.524	6.073	APHA 24th
															Ed.2023,4500NO ₂ B
10.	Ammonical	μmol/L	ND	ND	ND	ND	ND	APHA 24th Ed.							
	Nitrogen as NH₃														2023,4500- NH3 B
11.	Phosphates as	μmol/L	34820	35760	34620	35420	34840	35510	35130	35720	35140	35746	35160	35780	APHA 24th
	PO ₄														Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	28.3	16.2	20.2	8.1	24	8	20.1	16.1	32	20	28.6	16.3	APHA 24th Ed. 2023,4500 NH3 - B
13.	Petroleum	μg/L	2.7	BDL(MDL	2.8	BDL(MDL	2.5	BDL(MDL	2.7	BDL(MDL	2.8	BDL(MDL	3.1	BDL(MDL	APHA 24th
	Hydrocarbon	F-07 -		:1.0)		:1.0)		:1.0)	,	:1.0)		:1.0)	J.1	:1.0)	ED.2023,5520 F
14.	Total Dissolved	mg/L	7.04	6.73	6.9	6.8	6.82	6.72	6.75	6.65	6.81	6.71	6.66	6.57	IS 3025(Part
	Solids	<u> </u>													16):2023
15.	COD	mg/L	35.65	36.71	35.74	36.51	36.02	36.74	36.12	36.81	36.18	36.88	36.22	36.94	IS 3025(Part
															58):2023

Continue...

Mottlett Beeng Environmental Laboratory under The EPA, 1966, 102.04.3023 to 29.09.2028) NAME ORIGINAL STREET STREET ACCOUNTS Tenting Laboratory (TC-13.945) (22.01.2023 to 22.00.2024)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO	TEST PARAMETER	UNIT	Oct	-24	Nov	-24	Dec-	24	Jan-2	25	Feb-2	25	Mar-	-25	TEST METHOD
•	S		SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	
			E	M	E	M	E	M	E	M	E	M	E	М	
Α								Phytoplani	kton						
1.	Chlorophyll	mg/m³	3.06	3.26	3.07	3.24	3.06	3.28	3.07	3.27	3.06	3.26	3.07	3.27	APHA (24th Ed. 2023)10200A-G
2.	Phaeophytin	mg/m³	7	1.55	8	1.59	9	1.57	8	1.55	7	1.54	6	1.55	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	114	91	112	92	113	91	112	91	114	92	112	91	APHA (24th Ed. 2023)10200A-G
4	Name of Group		Coscinodi scus	Odentell a	Nitzschia	Biddulphi a	Nitzschia	Biddulphi a	Thalassio thrix	Dinophys is	Thalassio thrix	Dinophys is	Thalassio thrix	Dinophys is	APHA (24th Ed. 2023)10200A-G
	Number and name of		Diploneis	Rhizosole nia	Diploneis	Rhizosole nia	Pinnulari a	Rhizosole nia	Surirella	Pinnulari a	Surirella	Pinnulari a	Biddulphi a	Pinnulari a	
	group		Rhizosole nia	Coscinodi scus	Rhizosole nia	Coscinodi scus	Rhizosole nia	Coscinodi scus	Navicula	Thalassio thrix	Navicula	Thalassio thrix	Navicula	Thalassio thrix	
	species of each group		Dinophys is	Gramma tophora	Dinophys is	Gramma tophora	Dinophys is	Gramma tophora	Thallassi osira	Gramma tophora	Nitzschia	Gramma tophora	Nitzschia	Grammat ophora	
			Thalassio nema	Thallassi osira	Biddulphi a	Navicula	Biddulphi a	Navicula	Skeleton ema	Ceratium	Skeleton ema	Ceratium	Skeleton ema	Ceratium	

В					Zoop	lankton			
1	Abudance(P opulation)	noX103/ 100 m3	65	66	67	65	66	64	APHA (24rd Ed. 2023)10200 G
2	Name of Group		Crustacean Larvae	Oikoplura	Oikoplura	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	
	Number and name of		Egg(Fish and Shrimps)	Pinnularia	Pinnularia	Oikoplura	Oikoplura	Oikoplura	
	group		Copepods	Copepods	Copepods	Copepods nauplii	Copepods nauplii	Copepods nauplii	
	species of		Crustacean	Copepods nauplii	Copepods nauplii	Crustacean	Crustacean	Crustacean	
	each group		Bivalve Larvae	Thalassionema	Thalassionema	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	
3	Total Biomass	ml/100 m ³	13.66	13.65	13.66	13.67	13.68	13.67	

Continue...



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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR.	TEST	UNIT	Oct-2	24	Nov-2	4	Dec-2	4	Jan-2	25	Feb-	25	Mar	-25	
NO	PARAME		SURFAC	вотто	SURFAC	BOTTO	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	BOTTO	TEST METHOD
•	TERS		E	M	E	M	E	M	E	M	E	M	E	M	
С								Microbiolo	gical						
1	Total	CFU/ml													APHA 24 th
	Bacterial		11	12	11	L 4	1:	L2	1:	11	1:	12	11	L4	Ed.2023,9215-
	Count														С
2	Total	/100ml													APHA
	Coliform		1.	4	1	3	1	2	1	.3	1	2	1	3	24thEd.2023,9
															222-B
3	Ecoli	/100ml	g	•	8	3		•	8		87		88		IS :15185:2016
4	Enteroco	/100ml	Δhs	ent	Absent		Absent		Δhs	sent	Δhs	ent	Abs	ent	IS:15186:2002
	ccus		7,03		7103		Augent		71000110		71000111		7103		
5	Salmone	/100ml	Δhs	ent	Abs	ent	Δhs	ent	Δhs	sent	Δhs	ent	Δhs	ent	IS:15187:2016
	lla		703	CIIC	7.03		70.	CIIC	70.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	705	CIIC	703		
6	Shigella	/100ml													APHA
			Abs	ent	Abs	ent	Abs	ent	Abs	sent	Abs	ent	Abs	ent	24thEd.2023,9
															260-E
7	Vibrio	/100ml	Absent		Absent		Absent		Absent		Absent		Absent		IS: 5887 (Part
			Aus	CIIL	AUS	CIIC	AUS	CIIL	AUS	SCIIC	Abs	CIIL	AUS	CIIC	V):1976

Reses

Mr. Nilesh Patel Sr. Chemist

Mr. Nitin Tandel **Technical Manager**

Mottlett Beeng Environmental Laboratory under The EPA, 1966, 102.04.3023 to 29.09.2028) NAME ORIGINAL STREET STREET ACCOUNTS Tenting Laboratory (TC-13.945) (22.01.2023 to 22.00.2024)

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INC 9003 2015 | ISC 45002 2018 Cartified

RESULTS OF SEDIMENT ANALYSIS [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.48	0.44	0.48	0.46	0.49	0.44	IS: 2720 (Part 22):1972
2.	Phosphorus as P	μg/g	532.5	542.3	535.3	540.6	562.1	542.5	IS: 10158 :1982,
									Method B
3.	Texture		Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	μg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	3.91	3.88	3.92	3.96	3.95	3.98	IS3025(Part 55):2003
5.2	Total Chromium as	μg/g	135.2	142.3	146.2	142.4	148.6	152.5	EPA 3050B/7000B (Extraction
	Cr+3								&Analytical Method):2007
5.3	Manganese as Mn	μg/g	684.2	702.5	686	702.2	690.8	650.8	EPA 3050B/7000B (Extraction
	_								&Analytical Method):2007
5.4	Iron as Fe	%	4.12	3.94	3.95	3.98	3.91	3.88	EPA 3050B/7000B (Extraction
									&Analytical Method):2007
5.5	Nickel as Ni	μg/g	48.62	44.25	42.3	44.5	46.2	42.6	EPA 3050B/7000B (Extraction
		, 5, 5							&Analytical Method):2007
5.6	Copper as Cu	μg/g	52.21	46.35	44.6	48.6	52.1	54.2	EPA 3050B/7000B (Extraction
		, 5, 5							&Analytical Method):2007
5.7	Zinc as Zn	μg/g	111.4	102.5	110.5	114.5	120.5	106.2	EPA 3050B/7000B (Extraction
		10.0							&Analytical Method):2007
5.8	Lead as Pb	μg/g	2.41	2.24	2.22	2.29	2.11	1.86	EPA 3050B/7000B (Extraction
		1 0, 0							&Analytical Method):2007
5.9	Mercury as Hg	μg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction & Analytical
	, ,	, 3.0						· ·	Method) :2007

Continue...

Motther being townsomertal Laboratory under The EPA, 1966, 102.04.3023 to 29.09.2028) NAME ORIGINAL APRESS - BOARD ACCORDING Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3026)

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INC 9003 2015 | ISC 45002 2018 Cartified

RESULTS OF SEDIMENT ANALYSIS [M1 LEFT SIDE OF BOCHA CREEK - N 22°45'183" E 069°43'241"]

SR.	TEST	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D					Benthi	c Organisms			
1	Macrobenthos		Isopods	Isopods	Isopods	Foraminiferan	Foraminiferan	Foraminiferan	APHA (24th Ed.
			Polychates	Polychates	Polychates	Decapods Larvae	Decapods Larvae	Decapods Larvae	2023)10500
			Sipunculids	Sipunculids	Sipunculids	Amphipods	Gastropods	Gastropods	
			Amphipods	Foraminiferan	Foraminiferan	Polychates	Polychates	Polychates	
2	MeioBenthos		Herpectacoids	Gastropods	Herpectacoids	Turbellarians	Turbellarians	Turbellarians	
			Decapods Larvae	Decapods Larvae	Decapods Larvae	Foraminiferan	Foraminiferan	Foraminiferan	
3	Population	no/m²	366	367	368	367	368	367	

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Mr. Nilesh Patel Sr. Chemist

CULIARAT

Mr. Nitin Tandel **Technical Manager**

Mottlett Beeng Environmental Laboratory under The EPA, 1966. (OX OH JOJS to 29 CO.2028)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR.	TEST	TEST UNIT		Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		r-25	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом											
1.	рН		8.11	8.01	8.09	7.94	8.15	7.99	8.17	8.03	8.15	8.04	8.18	8.08	IS 3025(Part 11):2022
2.	Temperature	°C	29.9	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.8	29.7	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	128	102	142	114	132	102	142	114	130	116	124	106	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.6	BDL(MDL :1.0)	2.5	BDL(MDL:1.0)	2.9	BDL(MDL :1.0)	2.6	BDL(MDL :1.0)	2.7	BDL(MDL :1.0)	2.9	BDL(MDL :1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	6.84	6.53	6.7	6.6	6.62	6.52	6.45	6.35	6.71	6.5	6.57	6.37	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.64	36.88	35.28	36.65	35.42	36.72	35.56	36.81	35.67	36.84	35.72	36.89	By Calculation
7.	Oil & Grease	mg/L	BDL(MDL :2.0)	IS 3025(Part 39):2021											
8.	Nitrate as NO ₃	μmol/L	2.26	1.94	2.76	2.59	3.23	3.06	3.39	3.06	3.23	3.06	3.06	2.9	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.261	0.239	0.379	0.276	0.37	0.348	0.413	0.391	0.456	0.413	0.413	0.391	APHA 24th Ed.2023,4500NO₂B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.42	3.32	2.32	1.56	3.42	3.39	4.01	3.9	3.74	3.64	3.64	3.59	APHA 24th Ed.2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	1.26	1.16	1.37	1.26	1.58	1.47	1.16	BDL(MDL :0.4)	1.05	BDL(MDL :0.4)	1.16	BDL(MDL :0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	5.941	5.499	5.459	4.426	7.02	6.798	7.813	7.351	7.426	7.113	7.113	6.881	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	ND	APHA 24th ED.2023,5520 F											
14.	Total Dissolved Solids	mg/L	35810	36550	35640	36120	35550	36080	35840	36240	35910	36264	36010	36310	IS 3025(Part 16):2023
15.	COD	mg/L	32.4	20.2	24.2	12.1	27.9	12	32.1	20.1	36	24	32.7	20.4	IS 3025(Part 58):2023

Continue...

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR.	TEST	UNIT	Oct	:-24	Nov	<i>ı</i> -24	Dec	:-24	Jan	-25	Feb	-25	Ma	r-25	TEST METHOD
NO.	PARAMET		SURFA	вотто	SURFA	вотто	SURFA	вотто	SURFA	вотто	SURFA	вотто	SURFA	вотто	
	ERS		CE	М	CE	М	CE	М	CE	М	CE	М	CE	М	
Α								Phyto	plankton						
1.	Chloroph yll	mg/m³	2.97	2.67	2.98	2.68	2.97	2.69	2.98	2.68	2.97	2.67	2.96	2.66	APHA (24th Ed. 2023)10200A-G
2.	Phaeophy tin	mg/m ³	2.05	2.03	2.06	2.03	2.07	2.04	2.06	2.03	2.07	2.02	2.06	2.01	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	93	148	92	147	91	148	92	147	91	145	92	144	APHA (24th Ed. 2023)10200A-G
4	Name of		Thalass	Pinnula	Thalass	Pinnula	Dinoph	Pinnula	Navicul	Thalass	Surirell	Thalass	Surirell	Thalass	APHA (24th Ed.
	Group		iothrix	ria	iothrix	ria	ysis	ria	а	iothrix	а	iothrix	а	iothrix	2023)10200A-G
	Number		Surirell	Biddulp	Surirell	Biddulp	Surirell	Biddulp	Skeleto	Surirell	Pinnula	Surirell	Pinnula	Surirell	
	and name		а	hia	а	hia	а	hia	nema	а	ria	а	ria	а	
	of group		Navicul	Navicul	Navicul	Navicul	Nitzschi	Navicul	Rhizoso	Navicul	Rhizoso	Navicul	Melosir	Navicul	
	species of		а	а	а	а	а	а	lenia	а	lenia	а	а	а	
	each		Thallas	Rhizoso	Cyclotel	Rhizoso	Cyclotel	Rhizoso	Dinoph	Thallas	Dinoph	Thallas	Dinoph	Thallas	
	group		siosira	lenia	la	lenia	la	lenia	ysis	siosira	ysis	siosira	ysis	siosira	
			Skeleto	Skeleto	Skeleto	Thallas	Skeleto	Thallas	Thalass	Skeleto	Thalass	Skeleto	Thalass	Skeleto	
			nema	nema	nema	siosira	nema	siosira	ionema	nema	ionema	nema	ionema	nema	

В					Zoor	olankton			
1	Abudance (Populati on)	noX10 3/ 100 m3	44	43	44	43	42	41	APHA (24rd Ed. 2023)10200 G
2	Name of Group		Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	
	Number and name		Copepods	Oikoplura	Nitzschia	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	
	of group		Copepods nauplii	Copepods nauplii	Copepods nauplii	Copepods	Copepods	Copepods	
	species of		Crustacean	Crustacean	Pinnularia	Crustacean	Crustacean	Copepods nauplii	
	each group	Bivalve Larvae		Bivalve Larvae					
3	Total Biomass	ml/10 0 m ³	15.2	15.1	15.2	15.2	15.1	15.2	



Motther being townsomertal Laboratory under The EPA, 1966, 102.04.3023 to 29.09.2028) NAME OROUGH & PROPER DO NOT ACCOMPDISE Tenting Laboratory (TC-13.945) (33.04.3033 to 23.00.3034)

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RESULTS OF MARINE WATER [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO	TEST PARAMETER	UNIT	Oct-24	1	Nov-24	D	ec-24	Jan-2	5	Feb-25	N	Mar-25	TEST METHOD
	S		SURFACE	воттом	SURFACE E	воттом	SURFACE	воттом	SURFACI	Е ВОТТОМ	SURFACE	воттом	
С							Microbiologi	cal					
1	Total	CFU/m											APHA 24 th
	Bacterial	I	124		126		128	127		128		130	Ed.2023,9215
	Count												-C
2	Total	/100m											APHA
	Coliform	I	35		36		35	36		37		37	24thEd.2023,
													9222-В
3	E.coli	/100m	13		12		11	10		11		13	IS
		I	13										:15185:2016
4	Enterococcus	/100m	Absen	+	Absent	Δ	bsent	Abser	nt	Absent		bsent	IS:15186:200
		I	Absen		Absent	^		718361		Absent	,		2
5	Salmonella	/100m	Absen	+	Absent	Δ	bsent	Abser	n t	Absent		bsent	IS:15187:201
		I	Abscii		Abscrit	^	b sciit	Absci		Abscrit	,	ib 3Ciit	6
6	Shigella	/100m											APHA
		I	Absen	t	Absent	Α	bsent	Abser	nt	Absent	Α.	bsent	24thEd.2023,
													9260-E
7	Vibrio	/100ml	Absen	+	Absent	Δ	bsent	Abser	+	Absent		bsent	IS: 5887 (Part
			Absell		Ansent	_ A	D3CIIL	Ausei		Absent	, , , , , , , , , , , , , , , , , , ,	waeiit	V):1976

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Mr. Nilesh Patel Sr. Chemist

Mottlett Beeng Environmental Laboratory under The EPA, 1966, 102.04.3023 to 29.09.2028) NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Tenting Laboratory (TC-13.945) (33.04.3033 to 23.00.3034)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF SEDIMENT ANALYSIS [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.52	0.48	0.52	0.48	0.41	0.48	IS: 2720 (Part 22):1972
2.	Phosphorus as P	μg/g	602.2	582.4	594.2	602.8	596.2	580.3	IS: 10158 :1982, Method B
3.	Texture		Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	μg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	3.92	3.84	3.86	3.89	4.04	3.92	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	μg/g	144.3	135.2	142.3	146.7	138.4	142.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	μg/g	702.4	672.4	682.6	694.3	702.5	680.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.11	3.87	4.01	4.06	4.11	4.06	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	μg/g	42.25	48.65	49.36	50.34	48.2	44.1	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	μg/g	42.65	51.35	52.3	48.36	46.9	44.8	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	μg/g	122.5	106.5	110.4	113.4	118.4	104.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	μg/g	1.95	2.02	2.12	2.09	2.14	1.96	EPA 3050B/7000B (Extraction & Analytical Method):2007
5.9	Mercury as Hg	μg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction & Analytical Method) :2007



Mottlett Beeng Environmental Laboratory under The EPA, 1966. (03.04.3023 to 29.09.2038)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF SEDIMENT ANALYSIS [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"1

SR.	TEST	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D						Benthic Organism	ıs		
1	Macrobenthos		Decapods Larvae	Polychates	Polychates	Foraminiferan	Foraminiferan	Foraminiferan	APHA (24th Ed.
			Isopods	Isopods	Isopods	Gastropods	Gastropods	Gastropods	2023)10500
			Amphipods	Amphipods	Gastropods	Isopods	Isopods	Isopods	
			Sipunculids	Sipunculids	Sipunculids	Sipunculids	Amphipods	Amphipods	
2	MeioBenthos		Foraminiferan	Foraminiferan	Decapods Larvae	Herpectacoids	Sipunculids	Sipunculids	
			Herpectacoids	Herpectacoids	Herpectacoids	Polychates	Polychates	Polychates	
3	Population	no/m²	302	303	301	302	301	302	

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Mr. Nilesh Patel Sr. Chemist

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MotPhill Being Environmental 102.04.3023 to 29.03.2028) NAME ORIGINAL STREET STREET ACCOUNTS Tenting Laboratory (TC-15.945) (22.01.2023 to 22.00.2024)

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RESULTS OF MARINE WATER [M3 EAST OF BOCHAISLANOT DETECTED - N 22°46'530" E 069°41'690"]

		RESOLIS OF MARKINE WATER INS EAST OF BOCHAISEAROT BETECTED - N 22 40 550 E 005 41 050													
SR.	TEST	UNIT		t-24	Nov	/-24	Dec	:-24	Jan	-25	Feb	-25	Ma	r-25	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом											
1.	рН		8.21	7.98	8.18	8.03	8.27	8.09	8.23	8.04	8.19	8.09	8.22	8.05	IS 3025(Part 11):2022
2.	Temperature	°C	30	29.9	29.9	29.8	29.8	29.7	29.7	29.6	29.8	29.7	29.7	29.6	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	134	106	102	88	110	92	124	88	118	96	126	98	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.8	BDL(MDL: 1.0)	2.7	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	6.94	6.73	6.8	6.7	6.72	6.62	6.65	6.55	6.71	6.6	6.57	6.47	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.29	36.54	35.33	36.12	35.42	36.22	35.62	36.38	35.74	36.52	35.79	36.64	By Calculation
7.	Oil & Grease	mg/L	BDL(MDL: 2.0)	IS 3025(Part 39):2021											
8.	Nitrate as NO₃	μmol/L	2.58	2.26	2.67	2.41	2.42	2.26	3.23	2.9	3.55	3.23	3.39	3.06	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.37	0.326	0.475	0.365	0.326	0.304	0.37	0.326	0.435	0.391	0.456	0.435	APHA 24th Ed.2023,4500NO₂B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.42	3.26	2.62	2.58	3.59	3.53	3.85	3.8	4.06	3.95	3.8	3.74	APHA 24th Ed.2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	1.16	1.05	1.26	1.16	1.26	1.05	1.37	1.26	1.47	1.26	1.37	1.26	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	6.37	5.846	5.765	5.355	6.336	6.094	7.45	7.026	8.045	7.571	7.646	7.235	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	ND	APHA 24th ED.2023,5520 F											
14.	Total Dissolved Solids	mg/L	35230	36610	35290	36080	35430	36140	35524	36180	35540	36218	35460	36180	IS 3025(Part 16):2023
15.	COD	mg/L	24.3	12.1	16.1	4	20	8	24.1	12	28	16	24.5	12.3	IS 3025(Part 58):2023

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M3 EAST OF BOCHAISLANOT DETECTED - N 22°46'530" E 069°41'690"]

	RESOLUTION WATER INITIALITY OF DOCUMENTATION DETECTED IN 22 40 330 E 003 4.												000 .= 0	<u> </u>	
SR.	TEST	UNIT	Oct	:-24	Nov	<i>ı</i> -24	Dec	:-24	Jan	-25	Feb	-25	Mai	⁻ -25	TEST METHOD
NO.	PARAMET		SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	
	ERS		E	М	E	М	E	M	E	М	E	М	E	М	
Α									Phytopl	ankton					
1.	Chloroph yll	mg/m³	2.42	2.45	2.44	2.47	2.43	2.46	2.42	2.47	2.41	2.48	2.42	2.47	APHA (24th Ed. 2023)10200A-G
2.	Phaeophy tin	mg/m³	1.66	1.43	1.67	1.42	1.65	1.41	1.66	1.42	1.65	1.41	1.66	1.42	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	156	96	155	97	154	96	155	97	154	98	155	97	APHA (24th Ed. 2023)10200A-G
4	Name of		Pinnula	Coscino	Pinnula	Coscino	Pinnula	Coscino	Melosir	Cyclotel	Melosir	Cyclotel	Melosir	Cyclotel	APHA (24th Ed.
	Group		ria	discus	ria	discus	ria	discus	а	la	а	la	а	la	2023)10200A-G
	Number		Biddulp	Pinnula	Biddulp	Pinnula	Biddulp	Pinnula							
	and name		hia	ria	hia	ria	hia	ria							
	of group		Navicul	Rhizosol	Navicul	Rhizosol	Navicul	Rhizosol	Skeleto	Skeleto	Rhizosol	Skeleto	Rhizosol	Skeleto	
	species of		а	enia	а	enia	а	enia	nema	nema	enia	nema	enia	nema	
	each		Thallass	Dinoph	Thallass	Dinoph	Thallass	Dinoph	Thallass	Thallass	Thallass	Thallass	Thallass	Thallass	
	group		iosira	ysis	iosira	ysis	iosira	ysis	iosira	iosira	iosira	iosira	iosira	iosira	
			Skeleto	Thalassi	Skeleto	Thalassi	Skeleto	Thalassi							
			nema	onema	nema	onema	nema	onema							

В						Zooplankton			
1	Abudance (Populati on)	noX10 3/ 100 m3	43	41	43	41	42	43	APHA (24rd Ed. 2023)10200 G
2	Name of		Copepods	Copepods	Rhizosolenia	Crustacean	Crustacean	Crustacean	
	Group		Copepods nauplii	Copepods nauplii	Crustacean Larvae	Copepods nauplii	Copepods nauplii	Copepods nauplii	
	Number and name		Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	
	of group species of		Crustacean	Pinnularia	Oikoplura	Crustacean	Crustacean	Egg(Fish and Shrimps)	
	each group		Bivalve Larvae	Bivalve Larvae	Thalassionema	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	
3	Total Biomass	ml/10 0 m ³	15.4	15.3	15.1	15.1	15.3	15.4	



Mottlett Beeng Environmental Laboratory under The EPA, 1969; (03.04.302) to 29.09.2038)

NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Tening Laboratory CTC-13:3450 (22.01.2023 to 22.00.2024)

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INC 9003 2015 | ISC 45002 2018 Cartified

RESULTS OF MARINE WATER [M3 EAST OF BOCHAISLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO	TEST PARAMETER	UNIT	Oct	-24	Nov-	-24	Dec-2	24	Jan-25		Feb-25	Ma	r-25	TEST METHOD
•	S		SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	воттом	SURFACE	BOTTO M	SURFACE	BOTTO M		
С								IV	1icrobiological					
1	Total Bacterial Count	CFU/m I	13	34	136	6	137		136		138	1	40	APHA 24 th Ed.2023,9215 -C
2	Total Coliform	/100m l	3	1	32		33		31		32	\$	33	APHA 24thEd.2023, 9222-B
3	E.coli	/100m l	2	0	21		22		21		20	7	22	IS :15185:2016
4	Enterococcus	/100m l	Abs	ent	Abse	ent	Abse	nt	Absent		Absent	Ab	sent	IS:15186:200 2
5	Salmonella	/100m l	Abs	ent	Abse	ent	Abse	nt	Absent		Absent	Ab	sent	IS:15187:201 6
6	Shigella	/100m l	Abs	ent	Abse	ent	Abse	nt	Absent		Absent	Ab	sent	APHA 24thEd.2023, 9260-E
7	Vibrio	/100m l	Abs	ent	Abse	ent	Abse	nt	Absent		Absent	Ab	sent	IS: 5887 (Part V):1976

Reset

Mr. Nilesh Patel Sr. Chemist

CAUJARAT

Mr. Nitin Tandel **Technical Manager**

Mottlett Beeng Environmental Laboratory under The EPA, 1966, 102.04.3023 to 29.09.2028) NAME ORIGINAL STREET STREET ACCOUNTS Tening Laboratory CTC-13:3450 122.01.2023 to 22.00.20243

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF SEDIMENT ANALYSIS [M3 EAST OF BOCHAISLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR. NO.	TEST PARAMETERS	UNIT	Oct-24 SEDIMENT	Nov-24 SEDIMENT	Dec-24 SEDIMENT	Jan-25 SEDIMENT	Feb-25 SEDIMENT	Mar-25 SEDIMENT	TEST METHOD
1.	Organic Matter	%	0.54	0.58	0.62	0.58	0.55	0.58	IS: 2720 (Part 22):1972
2.	Phosphorus as P	μg/g	624.2	610.2	611.4	590.5	608.4	598.5	IS: 10158 :1982, Method B
3.	Texture		Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	μg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								1
5.1	Aluminum as Al	%	3.95	3.82	3.86	3.94	3.97	4.08	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	μg/g	143.5	132.4	134.2	128.4	113.5	124.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	μg/g	546.5	542.2	544.3	536.4	498.6	510.6	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.05	3.95	3.98	4.08	4.12	3.82	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	μg/g	35.94	36.25	37.2	38.4	42.44	40.39	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	μg/g	38.24	34.22	34.35	35.26	36.28	37.88	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	μg/g	124.3	108.5	112.4	118.4	122.2	120.21	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	μg/g	2.11	1.98	2.03	2.14	2.09	2.14	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	μg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007



Mottlett Beeng Environmental Laboratory under The EPA, 1966. (03.04.302) to 29.09.2038)

NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Tening Laboratory CTC-13:3450 (22.01.2023 to 22.00.2024)

DEP-RABET ASSESSMENT DA & DW

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF SEDIMENT ANALYSIS [M3 EAST OF BOCHAISLANOT DETECTED - N 22°46'530" E 069°41'690"]

SR.	TEST	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D					Benthic Or	rganisms			
1	Macrobenthos		Polychates	Polychates	Amphipods	Gastropods	Gastropods	Decapods Larvae	APHA (24th Ed.
			Gastropods	Gastropods	Gastropods	Isopods	Isopods	Isopods	2023)10500
			Isopods	Isopods	Isopods	Amphipods	Amphipods	Amphipods	·
			Sipunculids	Sipunculids	Sipunculids	Sipunculids	Sipunculids	Sipunculids	
2	MeioBenthos		Herpectacoids	Herpectacoids	Herpectacoids	Polychates	Polychates	Foraminiferan	
			Polychates	Polychates	Polychates	Herpectacoids	Herpectacoids	Herpectacoids	
3	Population	no/m²	298	296	298	297	295	294	

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Mr. Nilesh Patel Sr. Chemist

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MotPhill Being Environmental Laboratory under The EPA, 1986. (DZ.04.3023 to 29.09.2028) NAME ORIGINAL STREET STREET ACCOUNTS Textory Laboratory CTC-13:3451 [22.01.2023 to 22.00.2024]

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RESULTS OF MARINE WATER [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

	RESULTS OF IVIANINE WATER IVI4 JUNA BANOT DETECTEDAR IN 22 47 577 E 005 45 020														
SR.	TEST	UNIT	Oct	t-24	Nov		Dec	c-24		-25	Feb	-25	Ma	r-25	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом											
1.	рН		8.22	8.06	8.21	8.02	8.22	8.06	8.16	8	8.21	8.04	8.24	8.09	IS 3025(Part 11):2022
2.	Temperature	°C	30	29.9	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.6	29.5	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	122	104	116	94	106	88	128	114	122	108	132	114	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3.1	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	2.7	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	2.9	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	7.04	6.84	6.9	6.8	6.82	6.72	6.75	6.55	6.91	6.71	6.76	6.57	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.88	36.74	35.64	36.74	35.71	36.81	35.89	36.98	36.02	37.11	36.12	37.18	By Calculation
7.	Oil & Grease	mg/L	BDL(MDL: 2.0)	IS 3025(Part 39):2021											
8.	Nitrate as NO₃	μmol/L	2.1	1.77	3.45	2.59	3.39	3.23	3.23	2.9	3.39	3.06	3.23	2.9	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.196	0.174	0.431	0.328	0.391	0.37	0.435	0.391	0.391	0.37	0.456	0.413	APHA 24th Ed.2023,4500NO₂B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.32	3.26	2.84	2.62	3.69	3.64	4.11	4.06	4.22	4.11	3.95	3.9	APHA 24th Ed.2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	1.05	BDL(MDL: 0.4)	1.16	BDL(MDL: 0.4)	1.26	1.16	1.47	1.37	1.05	BDL(MDL: 0.4)	1.05	BDL(MDL: 0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	5.616	5.204	6.721	5.538	7.471	7.24	7.775	7.351	8.001	7.54	7.636	7.213	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	ND	APHA 24th ED.2023,5520 F											
14.	Total Dissolved Solids	mg/L	35590	36720	35160	35920	35240	36100	35610	36210	36642	36228	36320	36710	IS 3025(Part 16):2023
15.	COD	mg/L	28.3	16.2	20.2	8.1	24	12	28.1	16.1	32	20	28.6	16.3	IS 3025(Part 58):2023

NAME ORIGINAL STORYS SOLETY ACCORDING Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR.	TEST	UNIT	Oct	-24	Nov	<i>ı</i> -24	Dec	:-24	Jan	-25	Feb	-25	Ma	r-25	TEST METHOD
NO.	PARAMET		SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	
	ERS		E	M	E	M	E	М	E	М	E	М	E	М	
Α								Phytopl	ankton						
1.	Chloroph yll	mg/m³	2.34	3.1	2.33	3.2	2.36	3.1	2.35	3.2	2.36	3.1	2.37	3.2	APHA (24th Ed. 2023)10200A-G
2.	Phaeophy tin	mg/m³	2.4	5	2.3	6	2.2	7	2.1	8	2.2	9	2.1	8	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	157	87	158	88	157	89	156	88	157	87	156	88	APHA (24th Ed. 2023)10200A-G
4	Name of		Coscino	Surirell	Surirell	Surirell	Coscino	Surirell	Thallass	Coscino	Thallass	Coscino	Thallass	Coscino	APHA (24th Ed.
	Group		discus	а	а	а	discus	а	iosira	discus	iosira	discus	iosira	discus	2023)10200A-G
	Number		Diplone	Biddulp	Diplone	Biddulp	Diplone	Biddulp	Melosir	Diplonei	Melosir	Diplonei	Melosir	Diplonei	
	and name		is	hia	is	hia	is	hia	а	s	а	s	а	s	
	of group		Rhizosol	Navicul	Thalassi	Coscino	Skeleto	Coscino	Nitzschi	Rhizosol	Nitzschi	Rhizosol	Nitzschi	Rhizosol	
	species of		enia	а	othrix	discus	nema	discus	а	enia	а	enia	а	enia	
	each		Dinoph	Thallass	Navicul	Thallass	Navicul	Thallass	Rhizosol	Dinoph	Rhizosol	Dinoph	Rhizosol	Dinoph	
	group		ysis	iosira	а	iosira	а	iosira	enia	ysis	enia	ysis	enia	ysis	
			Thalassi	Skeleto	Thalassi	Skeleto	Thalassi	Skeleto	Pleurosi	Thalassi	Pleurosi	Thalassi	Pleurosi	Thalassi	
			onema	nema	onema	nema	onema	nema	gma	onema	gma	onema	gma	onema	

В						Zooplankton			
1	Abudance (Populati on)	noX10 3/ 100 m3	37	38	39	38	37	36	APHA (24rd Ed. 2023)10200 G
2	Name of		Oikoplura	Oikoplura	Copepods nauplii	Copepods nauplii	Copepods nauplii	Copepods nauplii	
	Group Number		Copepods nauplii	Rhizosolenia	Rhizosolenia	Crustacean Larvae	Crustacean Larvae	Egg(Fish and Shrimps)	
	and name of group		Crustacean Larvae	Crustacean Larvae	Egg(Fish and Shrimps)	Oikoplura	Oikoplura	Oikoplura	
	species of		Crustacean	Crustacean	Crustacean	Bivalve Larvae	Bivalve Larvae	Copepods nauplii	
	each group		Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Oikoplura	Oikoplura	Oikoplura	
3	Total Biomass	ml/10 0 m ³	14.26	14.27	14.26	14.25	14.26	14.27	

NAME ORIGINAL APRESS - BOARD ACCORDING Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3004)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR. NO	TEST PARAMETER	UNIT	Oct-	24	Nov-2	4	Dec-24		Jan-25		Feb-25	Ma	ar-25	TEST METHOD
•	S		SURFACE	воттом	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	воттом		
С								Mic	robiological					
1	Total	CFU/ml												APHA 24 th
	Bacterial		102	2	103		104		103		102	1	L 04	Ed.2023,9215
	Count													-C
2	Total	/100ml												APHA
	Coliform		42	2	43		44		42		41		40	24thEd.2023,
														9222-B
3	E.coli	/100ml	11		12		11		12		11		12	IS
					12				12				12	:15185:2016
4	Enterococcus	/100ml	Abse	nt	Absent		Absent		Absent		Absent	۸۵	sent	IS:15186:200
			Ause	ent.	Absen	•	Absent		Ausent		Absent	Au	Sent	2
5	Salmonella	/100ml	Abse	nt	Absen		Absent		Absent		Absent	۸۸	sent	IS:15187:201
			Ause	ent	Absen	•	Absent		Absent		Absent	Au	Sent	6
6	Shigella	/100ml												APHA
			Abse	ent	Absent	t	Absent		Absent		Absent	Ab	sent	24thEd.2023,
														9260-E
7	Vibrio	/100ml	Abse	nt	Absen		Absent		Absent		Absent	۸۸	sent	IS: 5887 (Part
			Ause	-110	Ausen	•	Ausent		Absent		Absent	Au	SCIIL	V):1976

Reset

Mr. Nilesh Patel Sr. Chemist

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Mottlett Beeng Environmental Laboratory under The EPA, 1969. (DX 04.3023 to 29.03.2028) NAME ORIGINAL STREET STREET ACCOUNTS Tenting Laboratory (TC-13.945) (33.04.3033 to 23.00.3034)

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INC 9003 2015 | ISC 45002 2018 Cartified

RESULTS OF SEDIMENT ANALYSIS [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR.	TEST	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	ĺ
1.	Organic Matter	%	0.46	0.43	0.51	0.48	0.42	0.46	IS: 2720 (Part 22):1972
2.	Phosphorus as P	μg/g	544.6	541.3	562.2	544.6	562.3	550.2	IS: 10158 :1982, Method B
3.	Texture		Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	μg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	4.06	3.99	4.02	4.08	4.01	4.09	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	μg/g	144.5	151.2	142.3	148.6	139.8	146.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	μg/g	512.4	524.3	530.4	518.6	512.2	521.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	3.91	3.97	4.03	3.92	3.98	4.06	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	μg/g	45.6	44.2	45.8	44.2	48.6	44.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	μg/g	42.8	49.8	50.6	46.8	48.2	52.36	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	μg/g	152.3	142.6	148.6	438.5	444.2	435.2	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	μg/g	2.22	2.02	2.11	1.86	1.88	1.96	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	μg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007



NAME ORIGINAL APRESS - BOARD ACCORDING Tening Laboratory (TC-15365) (22.01.2023 to 22.00.2024)

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INC 9003 2015 | ISC 45002 2018 Cartified

RESULTS OF SEDIMENT ANALYSIS [M4 JUNA BANOT DETECTEDAR N 22°47'577" E 069°43'620"]

SR.	TEST	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D					Benthi	ic Organisms			
1	Macrobenthos		Foraminiferan	Amphipods	Amphipods	Sipunculids	Sipunculids	Sipunculids	APHA (24th Ed.
			Gastropods	Gastropods	Gastropods	Decapods Larvae	Decapods Larvae	Decapods Larvae	2023)10500
			Isopods	Isopods	Isopods	Polychates	Polychates	Polychates	Í
			Sipunculids	Sipunculids	Turbellarians	Isopods	Isopods	Foraminiferan	
2	MeioBenthos		Herpectacoids	Herpectacoids	Herpectacoids	Turbellarians	Gastropods	Gastropods	
			Polychates	Turbellarians	Decapods Larvae	Herpectacoids	Herpectacoids	Herpectacoids	
3	Population	no/m²	307	306	305	304	303	302	

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Mr. Nilesh Patel Sr. Chemist

CULIARAT



Mottlett Beeng Environmental Laboratory under The EPA, 1966. (03.04.3023 to 29.09.2028) NAME ORIGINAL STREET STREET ACCOUNTS Tenting Laboratory (TC-15.945) (22.01.2023 to 22.00.2024)

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RESULTS OF MARINE WATER [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

CD	TECT			O							1 22 40 0				TECT NACTUOS
SR.	TEST	UNIT	Oct	t-24	Nov	/-24	Dec	:-24	Jan	1-25	Feb	-25	Ma	r-25	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом											
1.	рН		8.14	7.98	8.21	8.03	8.14	7.98	8.19	8.01	8.24	8.11	8.19	8.03	IS 3025(Part 11):2022
2.	Temperature	۰C	30.1	29.9	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.6	29.5	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	132	110	124	104	136	112	126	108	132	112	126	108	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27oC)	mg/L	2.9	BDL(MDL: 1.0)	2.5	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	2.6	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	6.84	6.63	6.7	6.6	6.62	6.52	6.65	6.45	6.6	6.5	6.47	6.37	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.12	36.33	35.19	36.48	35.28	36.52	35.44	36.66	35.56	36.71	35.42	36.74	By Calculation
7.	Oil & Grease	mg/L	BDL(MDL: 2.0)	IS 3025(Part 39):2021											
8.	Nitrate as NO3	μmol/L	2.74	2.42	2.8	2.37	2.9	2.74	3.23	2.9	3.71	3.39	3.55	3.39	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO2	μmol/L	0.283	0.239	0.259	0.189	0.304	0.261	0.348	0.326	0.391	0.37	0.37	0.348	APHA 24th Ed.2023,4500NO2 B
10.	Ammonical Nitrogen as NH3	μmol/L	3.74	3.59	4.05	3.83	3.74	3.69	4.11	4.01	3.95	3.85	4.11	4.06	APHA 24th Ed.2023,4500- NH3 B
11.	Phosphates as PO4	μmol/L	1.05	BDL(MDL: 0.4)	1.05	BDL(MDL: 0.4)	1.16	1.05	1.05	BDL(MDL: 0.4)	1.16	1.05	1.37	1.26	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	6.763	6.249	7.109	6.389	6.944	6.691	7.688	7.236	8.051	7.61	8.03	7.798	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	ND	APHA 24th ED.2023,5520 F											
14.	Total Dissolved Solids	mg/L	34840	35980	34560	35230	34620	35180	34980	35640	35060	35710	35140	35742	IS 3025(Part 16):2023
15.	COD	mg/L	16.2	12.1	8.1	4	12	8	16.1	12	20	16	16.3	12.3	IS 3025(Part 58):2023



Mottlett Beeng Environmental Laboratory under The EPA, 1966. (03.04.3023 to 29.09.2028) NAME ORIGINAL EPIERS - 2015 O ALCOHOUSE Tenlong Laboratory (TC-13:345) 122.01.2023 to 22.00.20243

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR.	TEST	UNIT	Oct	- 24	No	, 24	Dog	. 24	lan	. 2 E	Eah) T	Ma	r 2E	TEST METHOD
NO.	PARAMET	Civil		:-24		<i>ı</i> -24		:-24		-25		-25		r-25	IEST WIETHOD
NO.			SURFAC	BOTTO	SURFAC	вотто	SURFAC	BOTTO	SURFAC	вотто	SURFAC	BOTTO	SURFAC	вотто	
	ERS		Е	M	E	М	E	М	E	М	E	M	E	M	
Α									Phytopl	ankton					
1.	Chloroph yll	mg/m ³	3.11	3.16	3.12	3.15	3.13	3.14	3.12	3.13	3.11	3.12	3.12	3.13	APHA (24th Ed. 2023)10200A-G
2.	Phaeophy tin	mg/m³	2.2	1.21	2.1	1.21	2.2	1.22	2.1	1.21	2.2	1.22	2.1	1.23	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	124	112	123	113	124	112	123	113	122	112	121	113	APHA (24th Ed. 2023)10200A-G
4	Name of		Diplone	Navicul	Diplone	Navicul	Navicul	Navicul	Navicul	Pinnula	Navicul	Pinnula	Navicul	Pinnula	APHA (24th Ed.
	Group		is	а	is	а	а	а	а	ria	а	ria	а	ria	2023)10200A-G
	Number		Rhizosol	Skeleto	Rhizosol	Skeleto	Biddulp	Skeleto	Biddulp	Biddulp	Biddulp	Biddulp	Biddulp	Rhizosol	
	and name		enia	nema	enia	nema	hia	nema	hia	hia	hia	hia	hia	enia	
	of group		Nitzschi	Rhizosol	Nitzschi	Rhizosol	Nitzschi	Rhizosol	Nitzschi	Navicul	Nitzschi	Navicul	Odentel	Dinoph	
	species of		а	enia	а	enia	а	enia	а	а	а	а	la	ysis	
	each		Cyclotel	Dinoph	Cyclotel	Biddulp	Cyclotel	Biddulp	Cyclotel	Thallass	Cyclotel	Thallass	Cyclotel	Coscino	
	group		la	ysis	la	hia	la	hia	la	iosira	la	iosira	la	discus	
			Pleurosi	Thalassi	Pleurosi	Thalassi	Pleurosi	Thalassi	Pleurosi	Skeleto	Pleurosi	Skeleto	Pleurosi	Skeleto	
			gma	onema	gma	onema	gma	onema	gma	nema	gma	nema	gma	nema	

В						Zooplankton			
1	Abudance (Populati on)	noX10 3/ 100 m3	52	51	52	51	52	51	APHA (24rd Ed. 2023)10200 G
2	Name of		Copepods nauplii	Nitzschia	Nitzschia	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	
	Group Number		Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	
	and name		Oikoplura	Oikoplura	Oikoplura	Copepods	Copepods	Copepods nauplii	
	of group		Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Crustacean	Crustacean	Crustacean	
	species of each group		Oikoplura	Oikoplura	Oikoplura	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	
3	Total Biomass	ml/10 0 m ³	14.11	14.12	14.11	14.12	14.11	14.12	

MotPhill Being Environmental Laboratory under The EPA, 1966. (03.04.3023 to 29.09.2038)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M5 TOWARDS WESTERN SIDE OF EAST PORT - N 22°46'041" E 069°47'296"]

SR. NO	TEST PARAMETER	UNIT	Oct-2	24	Nov-24	1	Dec-24		Jan-25		Feb-25	M	ar-25	TEST METHOD
	S		SURFACE	воттом	SURFACE	воттом	SURFACE	BOTTOM	SURFACE	воттом	SURFACE	воттом		
С								Mic	robiological					
1	Total	CFU/ml												APHA 24 th
	Bacterial		142		144		144		143		144		148	Ed.2023,9215
	Count													-C
2	Total	/100ml												APHA
	Coliform		30		31		32		31		32		31	24thEd.2023,
														9222-B
3	E.coli	/100ml	16		17		18		17		16		17	IS
														:15185:2016
4	Enterococcus	/100ml	Abse	nt	Absent	t l	Absent		Absent		Absent	Ał	sent	IS:15186:200
			1.000											2
5	Salmonella	/100ml	Abse	nt	Absent	t l	Absent		Absent		Absent	Ał	sent	IS:15187:201
														6
6	Shigella	/100ml	_		_		_		_		_			APHA
			Abse	nt	Absent	t	Absent		Absent		Absent	At	sent	24thEd.2023,
														9260-E
7	Vibrio	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Δł	sent	IS: 5887 (Part
			Absc		Absent		7.030110		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	V):1976

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Mr. Nilesh Patel Sr. Chemist

Mottlett Beeng Environmental Laboratory under The EPA, 1966. (OX OH JOJS to 29 CO.2028) NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Tenting Laboratory (TC-15.945) (22.01.2023 to 22.00.2024)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF SEDIMENT ANALYSIS [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR.	TEST PARAMETERS	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
NO.			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	[
1.	Organic Matter	%	0.42	0.48	0.44	0.48	0.52	0.56	IS: 2720 (Part 22):1972
2.	Phosphorus as P	μg/g	608	612.2	602	586	594.2	612.3	IS: 10158 :1982, Method B
3.	Texture		Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	μg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	3.99	4.06	4.02	3.86	4.05	4.11	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	μg/g	142.6	135.6	144.2	136	142.2	140.6	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	μg/g	574.2	602.2	610.8	596.5	614.2	610.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.16	4.03	4.06	3.74	3.86	4.01	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	μg/g	44.82	42.1	48.6	46.2	42.5	44.6	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	μg/g	42.9	44.8	52.4	54.3	51.2	55.9	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	μg/g	124.3	131.2	142.6	140.5	124.6	103.5	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	μg/g	2.16	2.18	2.09	2.11	2.02	1.75	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	μg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007



Mottlett Beeng Environmental Laboratory under The EPA, 1366-(02.04.3023 to 29.03.2038)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF SEDIMENT ANALYSIS [M5 TOWARDS WESTERN SIDE OF EAST PORT – N 22°46'041" E 069°47'296"]

SR.	TEST	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D						Benthic Organism	is		
1	Macrobenthos		Amphipods	Amphipods	Amphipods	Isopods	Isopods	Isopods	APHA (24th Ed.
			Polychates	Sipunculids	Polychates	Polychates	Polychates	Gastropods	2023)10500
			Isopods	Isopods	Isopods	Sipunculids	Sipunculids	Sipunculids	
			Gastropods	Gastropods	Gastropods	Amphipods	Amphipods	Amphipods	
2	MeioBenthos		Decapods Larvae	Decapods Larvae	Foraminiferan	Polychates	Herpectacoids	Herpectacoids	
			Herpectacoids	Gastropods	Herpectacoids	Foraminiferan	Foraminiferan	Polychates	
3	Population	no/m²	306	307	308	307	306	307	

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Mr. Nilesh Patel Sr. Chemist

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NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

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RESULTS OF MARINE WATER [M7 EAST PORT N 22°47'120" E 069°47'110"]

	RESOLIS OF WARRIE WATER IN EAST FOR IN 22 47 120 E 003 47 110														
SR.	TEST	UNIT	Oct	t-24	Nov	<i>ı</i> -24	Dec	:-24	Jan	-25	Feb	-25	Ma	r-25	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	TEST WILLIAM										
1.	рН		8.05	7.86	8.17	7.98	7.98	7.86	8.26	8.04	8.18	8.06	8.24	8.11	IS 3025(Part 11):2022
2.	Temperature	°C	29.9	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.6	29.5	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	118	90	108	94	114	98	109	86	120	96	118	99	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.8	BDL(MDL: 1.0)	2.9	BDL(MDL: 1.0)	3	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	7.04	6.73	6.9	6.8	6.82	6.72	6.65	6.55	6.81	6.71	6.66	6.57	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.72	36.47	35.64	36.25	35.76	36.35	35.82	36.44	35.74	36.48	35.65	36.49	By Calculation
7.	Oil & Grease	mg/L	BDL(MDL: 2.0)	IS 3025(Part 39):2021											
8.	Nitrate as NO₃	μmol/L	3.06	2.74	3.23	2.59	3.06	2.9	2.74	2.42	3.23	3.06	3.55	3.23	APHA 24th Ed.2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.348	0.326	0.293	0.259	0.283	0.261	0.326	0.304	0.348	0.326	0.391	0.37	APHA 24th Ed.2023,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.85	3.74	3.97	3.84	3.64	3.59	3.9	3.8	4.16	4.06	3.95	3.9	APHA 24th Ed.2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	1.16	BDL(MDL: 0.4)	1.16	1.05	1.16	BDL(MDL: 0.4)	1.05	BDL(MDL: 0.4)	1.16	BDL(MDL: 0.4)	1.05	BDL(MDL: 0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	7.258	6.806	7.493	6.689	6.983	6.751	6.966	6.524	7.738	7.446	7.891	7.5	APHA 24th Ed.2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	ND	APHA 24th ED.2023,5520 F											
14.	Total Dissolved Solids	mg/L	35470	36240	35410	36320	35520	36140	35850	36320	35890	36356	35924	36380	IS 3025(Part 16):2023
15.	COD	mg/L	20.2	16.2	12.1	8.1	16	12	20.1	16.1	24	20	20.4	16.3	IS 3025(Part 58):2023

NAME ORIGINAL STREET STREET ACCOUNTS Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3004)

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INC 9003 2015 | ISC 45002 2018 Cartified Environmental Auditor (Sch-II) Certified Company CHI, Management System

RESULTS OF MARINE WATER [M7 EAST PORT N 22°47'120" E 069°47'110"]

SR.	TEST	UNIT	Oct	-24	Nov	<i>ı</i> -24	Dec	:-24	Jan	ı-25	Feb	-25	Ma	r-25	TEST METHOD
NO.	PARAMET		SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	
	ERS		E	М	E	M	E	М	E	М	E	М	E	М	
Α									Phytop	lankton					
1.	Chloroph yll	mg/m³	3.06	2.7	3.07	2.6	3.08	2.7	3.07	2.6	3.06	2.7	3.07	2.6	APHA (24th Ed. 2023)10200A-G
2.	Phaeophy tin	mg/m ³	2.7	1.77	2.6	1.78	2.7	1.77	2.6	1.78	2.7	1.77	2.6	1.76	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	91	121	92	122	91	121	92	122	91	123	92	122	APHA (24th Ed. 2023)10200A-G
4	Name of		Nitzschi	Thalassi	Nitzschi	Rhizosol	Nitzschi	Rhizosol	Diplone	Coscino	Diplone	Coscino	Diplone	Coscino	APHA (24th Ed.
	Group		а	othrix	а	enia	а	enia	is	discus	is	discus	is	discus	2023)10200A-G
	Number		Pinnula	Surirell	Pinnula	Surirell	Odentel	Surirell	Rhizosol	Diplonei	Rhizosol	Diplonei	Rhizosol	Diplonei	
	and name		ria	а	ria	а	la	а	enia	s	enia	s	enia	s	
	of group		Odontel	Navicul	Dinoph	Navicul	Dinoph	Navicul	Nitzschi	Rhizosol	Nitzschi	Rhizosol	Nitzschi	Rhizosol	
	species of		la	а	ysis	а	ysis	а	а	enia	а	enia	а	enia	
	each		Dinoph	Thallass	Pleurosi	Thalassi	Pleurosi	Thalassi	Thalassi	Dinoph	Thalassi	Dinoph	Thalassi	Dinoph	
	group		ysis	iosira	gma	onema	gma	onema	othrix	ysis	othrix	ysis	othrix	ysis	
			Surirell	Skeleto	Surirell	Skeleto	Cyclotel	Skeleto	Pleurosi	Thalassi	Pleurosi	Thalassi	Cyclotel	Thalassi	
			а	nema	а	nema	la	nema	gma	onema	gma	onema	la	onema	

В					Zoopla	nkton			
1	Abudance (Populati on)	noX10 3/ 100 m3	41	44	43	42	41	42	APHA (24rd Ed. 2023)10200 G
2	Name of Group		Nitzschia	Nitzschia	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	
	Number		Pinnularia	Pinnularia	Coscinodiscus	Oikoplura	Oikoplura	Oikoplura	
	and name		Odontella	Odontella	Odontella	Copepods nauplii	Copepods nauplii	Copepods nauplii	
	of group		Dinophysis	Dinophysis	Dinophysis	Crustacean	Crustacean	Crustacean	
	species of each group		Surirella	Surirella	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	
3	Total Biomass	ml/10 0 m ³	16.58	16.57	16.58	16.57	16.58	16.59	

Abstracts and The EPA, 1986 (02.04.302) to 29.03.2028

NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3004)

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RESULTS OF MARINE WATER [M7 EAST PORT N 22°47'120" E 069°47'110"]

SR. NO	TEST PARAMETER	UNIT	Oct-	24	Nov-2	4	Dec-24		Jan-25		Feb-25	М	ar-25	TEST METHOD
•	S		SURFACE	воттом	SURFACE	BOTTOM	SURFACE	BOTTON	/I SURFACE	воттом	SURFACE	воттом		
С								Mic	crobiological					
1	Total	CFU/ml												APHA 24 th
	Bacterial Count		94	l	96		98		99		98		96	Ed.2023,9215 -C
2	Total	/100ml												АРНА
	Coliform		24	ļ.	26		27		26		27		26	24thEd.2023, 9222-B
3	E.coli	/100ml	13		11		12		11		12		11	IS :15185:2016
4	Enterococcus	/100ml	Abse	ent	Absen	t	Absent		Absent		Absent	Al	sent	IS:15186:200 2
5	Salmonella	/100ml	Abse	ent	Absen	t	Absent		Absent		Absent	Al	sent	IS:15187:201 6
6	Shigella	/100ml	Abse	ent	Absent	t	Absent		Absent		Absent	Ab	sent	APHA 24thEd.2023, 9260-E
7	Vibrio	/100ml	Abse	ent	Absent	:	Absent		Absent		Absent	Ab	sent	IS: 5887 (Part V):1976

Best 1

Mr. Nilesh Patel Sr. Chemist



MotPhill Being Environmental Laboratory under The EPA, 1966, 102.04.3023 to 29.09.2028) NAME ORIGINAL STREET STREET ACCOUNTS Tenting Laboratory (TC-15.945) (22.01.2023 to 22.00.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR.	TEST	UNIT	Oct	t-24	Nov	<i>ı</i> -24	Dec	c-24	Jan	-25	Feb	-25	Ma	r-25	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	TEST WILTHOD										
1.	рН		8.24	8.08	8.18	8.01	8.06	7.85	8.11	7.95	8.17	7.99	8.14	7.96	IS 3025(Part 11):2022
2.	Temperature	°C	30	29.9	29.9	29.8	29.8	29.7	29.7	29.6	29.8	29.7	29.7	29.6	IS 3025(Part 9):2023
3.	Total Suspended Solids	mg/L	128	98	116	84	122	80	128	86	124	104	132	112	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3.4	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	2.9	BDL(MDL: 1.0)	2.6	BDL(MDL: 1.0)	IS 3025(Part 44):2023
5.	Dissolved Oxygen	mg/L	7.04	6.84	6.9	6.8	6.82	6.72	6.85	6.65	6.91	6.71	6.76	6.57	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.55	36.62	35.62	36.74	35.74	36.82	35.83	36.94	35.75	36.97	35.78	37.02	By Calculation
7.	Oil & Grease	mg/L	BDL(MDL: 2.0)	IS 3025(Part 39):2021											
8.	Nitrate as NO ₃	μmol/L	3.23	2.9	3.02	2.59	2.74	2.42	3.06	2.9	2.9	2.58	3.23	3.06	APHA 24th Ed.2023,4500 NO3-
9.	Nitrite as NO ₂	μmol/L	0.348	0.326	0.276	0.215	0.304	0.283	0.391	0.37	0.413	0.37	0.391	0.37	APHA 24th Ed.2023,4500NO₂B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.95	3.8	3.79	3.36	3.8	3.74	3.9	3.74	4.11	4.01	4.16	4.06	APHA 24th Ed.2023,4500- NH3
11.	Phosphates as PO ₄	μmol/L	1.16	BDL(MDL: 0.4)	1.05	BDL(MDL: 0.4)	1.16	BDL(MDL: 0.4)	1.16	1.05	1.37	1.16	1.05	BDL(MDL: 0.4)	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	7.528	7.026	7.086	6.165	6.844	6.443	7.351	7.01	7.423	6.96	7.781	7.49	APHA 24th Ed.2023,4500 NH3 -
13.	Petroleum Hydrocarbon	μg/L	ND	APHA 24th ED.2023,5520 F											
14.	Total Dissolved Solids	mg/L	35120	36250	34830	35640	35090	35840	35420	36204	35440	36340	35390	36388	IS 3025(Part 16):2023
15.	COD	mg/L	20.2	12.1	12.1	4	16	8	20.1	12	24	16	20.4	12.3	IS 3025(Part 58):2023

Mottlett Beeng Environmental Laboratory under The EPA, 1966, 102.04.3023 to 29.09.2028) NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Tenting Laboratory (TC-13.945) (33.04.3033 to 23.00.3034)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR.	TEST	UNIT	Oct	:-24	Nov	<i>ı</i> -24	Dec	:-24	Jan	-25	Feb	-25	Ma	r-25	TEST METHOD
NO.	PARAMET ERS		SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	вотто М	SURFAC E	BOTTO M	SURFAC E	BOTTO M	
Α									Phytopl	ankton				'	
1.	Chloroph yll	mg/m ³	3.3	3.12	3.2	3.14	3.1	3.12	3.2	3.11	3.1	3.12	3.2	3.11	APHA (24th Ed. 2023)10200A-G
2.	Phaeophy tin	mg/m³	1.7	1.6	1.8	1.38	1.7	1.8	1.6	1.7	1.7	1.6	1.6	1.7	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	114	107	113	109	114	107	113	106	112	107	113	106	APHA (24th Ed. 2023)10200A-G
4	Name of Group		Odentel la	Cyclotel la	Odentel la	Cyclotel la	Odentel la	Cyclotel Ia	Nitzschi a	Diplonei s	Nitzschi a	Diplonei s	Nitzschi a	Diplonei s	APHA (24th Ed. 2023)10200A-G
	Number and name of group		Rhizosol enia	Pinnula ria	Rhizosol enia	Pinnula ria	Rhizosol enia	Pinnula ria	Gramm atophor a	Rhizosol enia	Gramm atophor a	Rhizosol enia	Gramm atophor a	Rhizosol enia	
	species of each		Coscino discus	Skeleto nema	Coscino discus	Skeleto nema	Coscino discus	Skeleto nema	Diplone is	Nitzschi a	Diplone is	Nitzschi a	Diplone is	Nitzschi a	
	group		Gramm atophor a	Thallass iosira	Gramm atophor a	Thallass iosira	Gramm atophor a	Thallass iosira	Thalassi othrix	Cyclotel la	Thalassi othrix	Cyclotel la	Thalassi othrix	Gramm atophor a	
			Thallass iosira	Thalassi onema	Thallass iosira	Thalassi onema	Thallass iosira	Thalassi onema	Pleurosi gma	Pleurosi gma	Pleurosi gma	Pleurosi gma	Pleurosi gma	Pleurosi gma	
В								Zoopla	nkton						
1	Abudance (Populati on)	noX10 3/ 100 m3	3	2	3	1	3	2	3	1	3	2	3	30	APHA (24rd Ed. 2023)10200 G
2	Name of		Coscine	odiscus	Coscine	odiscus	Odor		Oiko	plura	Oiko	plura	Oiko	plura	
	Group Number		•	oneis	Shrii		Egg(Fi Shrii	mps)	Сорерос	ls nauplii	Сорерос	ls nauplii	33.	ish and mps)	
	and name		Rhizos		Rhizos			olenia		an Larvae		an Larvae		an Larvae	
	of group species of		Dinop	ohysis	Bivalve	Larvae	Bivalve	Larvae	Crust	acean	Crust	acean	Crust	acean	
	each group		Thalass	ionema	Thalass	ionema	Thalass	ionema	Bivalve	Larvae	Bivalve	Larvae	Bivalve	: Larvae	
3	Total Biomass	ml/10 0 m ³	14	.77	14	.76	14	.77	14	.76	14	.77	14	.78	



MotPhick being Environmental Laboratory under The EPA, 1966, 102.04.3023 to 29.09.2028) NAME OROUGH & PROPER DO NOT ACCOMPDISE Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3004)

DEP-RABET ASSESSMENT DA & DW

GPCS Revegenzed Environmental Auditor (Sch-II) Certified Company CHI, Management System

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INC 9003 2015 | ISC 45002 2018 Cartified

RESULTS OF MARINE WATER [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR. NO	TEST PARAMETER	UNIT	Oct-	24	Nov-2	4	Dec-24		Jan-25		Feb-25	Ma	ar-25	TEST METHOD
	S		SURFACE	воттом	SURFACE	воттом	SURFACE	BOTTON	/I SURFACE	воттом	SURFACE	воттом		
С								Mi	crobiological					
1	Total	CFU/ml												APHA 24 th
	Bacterial		92	2	94		10		11		12		16	Ed.2023,9215
	Count													-C
2	Total	/100ml												APHA
	Coliform		12	2	13		14		13		12		14	24thEd.2023,
														9222-B
3	E.coli	/100ml	11		12		11		10		11		11	IS
			- 11		12				10		11		11	:15185:2016
4	Enterococcus	/100ml	6		5		6		5		6		5	IS:15186:200
			0										<u> </u>	2
5	Salmonella	/100ml	Abse	+	Absent		Absent		Absent		Absent	Ab	sent	IS:15187:201
			Abse	ent	Absem									6
6	Shigella	/100ml					Absent		Absent		Absent	Ab	sent	АРНА
			Abse	ent	Absent	:								24thEd.2023,
														9260-E
7	Vibrio	/100ml	Abse		Absort		Absent		Absent		Absent	Ab	sent	IS: 5887 (Part
			Abse	:110	Absent	•								V):1976

Reses

Mr. Nilesh Patel Sr. Chemist

Mr. Nitin Tandel

Technical Manager

MotPhill Being Environmental NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Laboratory under The EPA, 1366 (OX.04.3023 to 29.03.2028)

Tenting Laboratory (TC-15.945) (22.01.2023 to 22.00.2024)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF SEDIMENT ANALYSIS [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

DEP-RABET ASSESSMENT DA & DW

Consultant Organization

		11201	DEIO OI GEBIIVII	LIVI AIVALISIS [VIO IXIGITI GIBL	OT DOCTOR CITE	-IX IX EE 15 567	<u> </u>	·
SR.	TEST PARAMETERS	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
NO.			SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.51	0.48	0.52	0.46	0.51	0.56	IS: 2720 (Part 22):1972
2.	Phosphorus as P	μg/g	578.6	602.4	610.8	598.4	618.4	620.3	IS: 10158 :1982, Method B
3.	Texture		Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No. UERL/CHM/LTM/108
4.	Petroleum Hydrocarbon	μg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 24th Ed.2023,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	4.12	4.15	4.09	4.12	4.1	4.11	IS3025(Part 55):2003
5.2	Total Chromium as Cr+3	μg/g	138.5	132.2	138.4	146.2	134.6	142.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.3	Manganese as Mn	μg/g	602.5	594.2	576.2	608.4	588.5	602.8	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.4	Iron as Fe	%	4.11	3.89	3.48	3.69	3.88	4.03	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.5	Nickel as Ni	μg/g	44.6	42.2	38.9	42.2	44.6	45	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.6	Copper as Cu	μg/g	54.2	52.4	49.9	45.8	48.9	48.1	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.7	Zinc as Zn	μg/g	134	124.2	120.3	115.2	124.3	116.3	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.8	Lead as Pb	μg/g	2.38	2.12	2.09	2.14	2.16	1.95	EPA 3050B/7000B (Extraction &Analytical Method):2007
5.9	Mercury as Hg	μg/g	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	EPA 7471B (Extraction &Analytical Method) :2007



MotPhill Brong Environmental Laboratory under The EPA, 1966, 102.04.JOJS to 29.09.2028) NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Tening Laboratory (TC-15345) (22.01.2023 to 22.00.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organisation

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INC 9003 2015 | ISC 45002 2018 Cartified

RESULTS OF SEDIMENT ANALYSIS [M8 RIGHT SIDE OF BOCHA CREEK N 22°45'987" E 069°43'119"]

SR.	TEST	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D						Benthic Organism	ıs		
1	Macrobenthos		Polychates	Gastropods	Gastropods	Polychates	Polychates	Polychates	APHA (24th Ed.
			Decapods Larvae	Decapods Larvae	Decapods Larvae	Amphipods	Amphipods	Amphipods	2023)10500
			Isopods	Isopods	Isopods	Isopods	Isopods	Sipunculids	·
			Sipunculids	Sipunculids	Sipunculids	Sipunculids	Herpectacoids	Herpectacoids	
2	MeioBenthos		Herpectacoids	Herpectacoids	Herpectacoids	Foraminiferan	Foraminiferan	Foraminiferan	
			Turbellarians	Turbellarians	Turbellarians	Turbellarians	Turbellarians	Turbellarians	
3	Population	no/m²	365	364	366	367	368	367	

Reses

Mr. Nilesh Patel Sr. Chemist

NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3004)

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INCH STORY . INCH 4500X: JULIE CAVERAGE Environmental Auditor (Sch. II) Certified Company CHI, Wanagement System

RESULTS OF MARINE WATER [M11 MPT T1 JETTY N 22°42'278" E 069°43'450"]

SR.	TEST	UNIT	Oct	:-24	Nov	<i>ı</i> -24	Dec	:-24	Jan	-25	Feb	-25	Ma	r-25	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	1231 111211102										
1.	рН		8.17	7.99	8.24	8.04	8.33	8.12	8.34	8.06	8.27	8.11	8.21	8.02	IS 3025 (Part 11):2022
2.	Temperature	°C	29.9	29.8	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.8	29.7	IS 3025 (Part 9):2023
3.	Total Suspended Solids	mg/L	136	120	132	114	144	128	126	102	122	110	118	104	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.6	BDL(MDL: 1.0)	2.8	BDL(MDL: 1.0)	3.4	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	3.1	BDL(MDL: 1.0)	3.2	BDL(MDL: 1.0)	IS 3025 (Part 44):2023
5.	Dissolved Oxygen	mg/L	6.94	6.73	6.8	6.7	6.72	6.62	6.55	6.45	6.6	6.5	6.47	6.37	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.75	36.81	35.81	36.74	36.08	37.2	36.14	37.35	36.21	37.12	36.34	37.14	By Calculation
7.	Oil & Grease	mg/L	BDL(MDL: 2.0)	IS 3025 (Part 39):2021											
8.	Nitrate as NO ₃	μmol/L	3.39	3.06	3.36	2.8	3.23	3.06	3.71	3.55	3.55	3.23	3.39	3.23	APHA 24th Ed. 2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.283	0.261	0.328	0.276	0.326	0.283	0.456	0.435	0.435	0.413	0.413	0.391	APHA 24th Ed.2023,4500NO₂B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.8	3.69	3.62	3.32	3.69	3.64	4.01	3.9	4.27	4.16	4.27	4.11	APHA 24th Ed. 2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	BDL(MDL: 0.4)	BDL(MDL: 0.4)	1.26	1.16	1.05	BDL(MDL: 0.4)	1.58	1.37	1.16	BDL(MDL: 0.4)	1.16	1.05	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	7.473	7.011	7.308	6.396	7.246	6.983	8.176	7.885	8.255	7.803	8.073	7.731	APHA 24th Ed. 2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	ND	APHA 24th ED.2023,5520 F											
14.	Total Dissolved Solids	mg/L	35460	36710	35190	35960	35210	35850	35490	36310	35410	36280	35480	36310	IS 3025(Part 16):2023
15.	COD	mg/L	20.2	16.2	12.1	8.1	16	12	20.1	16.1	24	20	20.4	16.3	IS 3025(Part 58):2023

NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3004)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INCH STORY . INCH 4500X: JULIE CAVERAGE

RESULTS OF MARINE WATER [M11 MPT T1 JETTY N 22°42'278" E 069°43'450"]

SR.	TEST	UNIT	Oct	-24	Nov	ı-24	Dec	:-24	Jan	-25	Feb	-25	Mai	r-25	TEST METHOD
NO.	PARAMET		SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	
	ERS		E	M	E	M	E	M	E	M	E	M	E	M	
Α									Phytopl	ankton					
1.	Chloroph yll	mg/m ³	2.8	2.7	2.7	2.6	2.6	2.7	2.5	2.6	2.6	2.7	2.7	2.8	APHA (24th Ed. 2023)10200A-G
2.	Phaeophy tin	mg/m ³	2.6	1.5	2.7	1.6	2.5	1.5	2.4	1.4	2.3	1.3	2.4	1.2	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	131	119	132	120	133	122	132	121	131	122	132	123	APHA (24th Ed. 2023)10200A-G
4	Name of		Dinoph	Navicul	Odentel	Cyclotel	Cyclotel	Surirell	Odentel	Nitzschi	Odentel	Nitzschi	Odentel	Nitzschi	APHA (24th Ed.
	Group		ysis	а	la	la	la	а	la	а	la	а	la	а	2023)10200A-G
	Number		Pinnula	Skeleto	Rhizosol	Pinnula	Pinnula	Skeleto	Rhizosol	Pinnula	Rhizosol	Pinnula	Rhizosol	Pinnula	
	and name		ria	nema	enia	ria	ria	nema	enia	ria	enia	ria	enia	ria	
	of group		Thalassi	Rhizosol	Coscino	Skeleto	Thalassi	Rhizosol	Coscino	Odontel	Coscino	Odontel	Coscino	Odontel	
	species of		othrix	enia	discus	nema	othrix	enia	discus	la	discus	la	discus	la	
	each group		Gramm atophor	Dinoph	Gramm atophor	Thallass	Rhizosol	Cyclotel	Gramm atophor	Dinoph	Gramm atophor	Dinoph	Pleurosi	Dinoph	
			a	ysis	a	iosira	enia	la	a	ysis	a	ysis	gma	ysis	
			Ceratiu	Thalassi	Thallass	Thalassi	Ceratiu	Thalassi	Thallass	Surirell	Thallass	Surirell	Thallass	Surirell	
			m	onema	iosira	onema	m	onema	iosira	а	iosira	а	iosira	а	

В					Zoopla	nkton			
1	Abudance (Populati on)	noX10 3/ 100 m3	35	34	33	32	33	31	APHA (24rd Ed. 2023)10200 G
2	Name of		Diploneis	Diploneis	Diploneis	Decapoda	Decapoda	Decapoda	
	Group		Rhizosolenia	Rhizosolenia	Rhizosolenia	Copepods	Copepods	Oikoplura	
	Number and name of group		Nitzschia	Nitzschia	Nitzschia	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	
	species of		Thalassiothrix	Coscinodiscus	Coscinodiscus	Crustacean	Crustacean	Bivalve Larvae	
	each group		Pleurosigma	Pleurosigma	Pleurosigma	Oikoplura	Oikoplura	Oikoplura	
3	Total Biomass	ml/10 0 m ³	15.24	15.23	15.22	15.21	15.22	15.21	



NAME OROUGH & PROPER DO NOT ACCOMPDISE Tening Laboratory (TC-15365) (22.0), 2023 to 22.00, 2024)

DEP-NAMET ANY AND ROBBERT DAY & GOV

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RESULTS OF MARINE WATER [M11 MPT T1 JETTY N 22°42'278" E 069°43'450"]

SR. NO	TEST PARAMETER	UNIT	Oct-	24	Nov-2	4	Dec-24		Jan-25		Feb-25	Ma	ır-25	TEST METHOD
	S		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом		
С								Mic	robiological					
1	Total	CFU/ml												APHA 24 th
	Bacterial		232	2	234		236		235		234	2	234	Ed.2023,9215
	Count													-C
2	Total	/100ml												APHA
	Coliform		42	2	41		42		41		42		41	24thEd.2023,
														9222-B
3	E.coli	/100ml	30		33		34		33		32		31	IS
														:15185:2016
4	Enterococcus	/100ml	12		11		12		11		12		11	IS:15186:200
														2
5	Salmonella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Ab	sent	IS:15187:201
			71250		7123011									6
6	Shigella	/100ml					Absent		Absent		Absent	Ab	sent	APHA
			Abse	ent	Absent	:								24thEd.2023,
														9260-E
7	Vibrio	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Ab	sent	IS: 5887 (Part
			Absc		Absciii									V):1976

Reses

Mr. Nilesh Patel Sr. Chemist



NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3004)

DEP-RABET ASSESSMENT DA & DW Consultant Organisation

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RESULTS OF MARINE WATER [M12 SPM N 22°40'938" E 069°39'191"]

	RESULTS OF MARINE WATER WITZ SPIN IN 22 40 938 E 069 39 191														
SR.	TEST	UNIT		t-24	Nov			:-24		-25	Feb			r-25	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	BOTTOM	SURFACE	воттом	SURFACE	воттом	
1.	рН		8.21	8.03	8.12	7.95	8.26	8.09	8.21	8.05	8.24	8.08	8.19	8.04	IS 3025 (Part 11):2022
2.	Temperature	°C	30	29.9	29.8	29.7	29.7	29.6	29.6	29.5	29.7	29.6	29.8	29.7	IS 3025 (Part 9):2023
3.	Total Suspended Solids	mg/L	122	90	110	88	114	90	138	110	132	118	126	104	APHA 24th Ed.,2023,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.7	BDL(MDL :1.0)	3.1	BDL(MDL:1.0)	2.9	BDL(MDL :1.0)	2.8	BDL(MDL :1.0)	2.9	BDL(MDL :1.0)	3.2	BDL(MDL :1.0)	IS 3025 (Part 44):2023
5.	Dissolved Oxygen	mg/L	7.04	6.84	6.9	6.8	6.82	6.72	6.75	6.65	6.81	6.71	6.66	6.57	APHA 24th Ed.2023,4500-O, B
6.	Salinity	ppt	35.72	36.58	35.62	36.54	35.94	36.82	36.08	37.21	36.14	37.02	36.25	37.14	By Calculation
7.	Oil & Grease	mg/L	BDL(MDL :2.0)	IS 3025 (Part 39):2021											
8.	Nitrate as NO₃	μmol/L	2.74	2.42	3.45	2.8	3.39	3.23	3.55	3.39	3.87	3.71	3.71	3.55	APHA 24th Ed. 2023,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.413	0.37	0.345	0.276	0.348	0.326	0.413	0.37	0.478	0.456	0.37	0.348	APHA 24th Ed.2023,4500NO₂B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.9	3.8	3.28	3.1	3.59	3.53	4.06	3.9	4.27	4.16	4.22	4.16	APHA 24th Ed. 2023,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	1.37	1.16	1.16	1.05	1.26	1.16	1.26	BDL(MDL :0.4)	1.58	1.47	1.47	1.37	APHA 24th Ed.2023,4500-P, D
12.	Total Nitrogen	μmol/L	7.053	6.59	7.075	6.176	7.328	7.086	8.023	7.66	8.618	8.326	8.3	8.058	APHA 24th Ed. 2023,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	ND	APHA 24th ED.2023,5520 F											
14.	Total Dissolved Solids	mg/L	35460	36140	35510	36140	35430	36100	35760	36420	35680	36450	35720	36520	IS 3025(Part 16):2023
15.	COD	mg/L	24.3	20.2	16.1	12.1	20	16	24.1	20.1	28	24	24.5	20.4	IS 3025(Part 58):2023

NAME ORIGINAL STREET STREET ACCOUNTS Tenting Laboratory (TC-15.945) (22.01.2023 to 22.00.2024)

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INCO SOUS JUSTS 150 45003; JUST CHARLES

RESULTS OF MARINE WATER [M12 SPM N 22°40'938" E 069°39'191"]

									W N 22°4						
SR.	TEST	UNIT	Oct	:-24	Nov	<i>ı</i> -24	Dec	:-24	Jan	-25	Feb	-25	Ma	r-25	TEST METHOD
NO.	PARAMET ERS		SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	SURFAC E	BOTTO M	
Α									Phytopl	ankton					
1.	Chloroph yll	mg/m³	2.2	2.3	2.3	2.2	2.4	2.1	2.3	2.1	2.2	2.2	2.1	2.1	APHA (24th Ed. 2023)10200A-G
2.	Phaeophy tin	mg/m³	1.16	1.48	1.17	1.47	1.18	1.46	1.17	1.47	1.18	1.48	1.19	1.49	APHA (24th Ed. 2023)10200A-G
3.	Cell Count	No. x 10³/L	78	133	77	132	76	131	77	132	78	131	77	132	APHA (24th Ed. 2023)10200A-G
4	Name of Group		Ceratiu m	Melosir a	Ceratiu m	Rhizosol enia	Surirell a	Rhizosol enia	Skeleto nema	Odentel la	Skeleto nema	Odentel la	Skeleto nema	Odentel la	APHA (24th Ed. 2023)10200A-G
	Number and name of group species of each group		Pinnula ria	Dinoph ysis	Pinnula ria	Dinoph ysis	Pinnula ria	Dinoph ysis	Gramm atophor a	Rhizosol enia	Gramm atophor a	Rhizosol enia	Gramm atophor a	Rhizosol enia	
		ach	Odontel la	Skeleto nema	Odontel la	Skeleto nema	Gramm atophor a	Skeleto nema	Nitzschi a	Coscino discus	Nitzschi a	Coscino discus	Nitzschi a	Coscino discus	
			Thalassi othrix	Thallass iosira	Thalassi othrix	Thallass iosira	Thalassi othrix	Thallass iosira	Thalassi othrix	Gramm atophor a	Thalassi othrix	Gramm atophor a	Coscino discus	Pinnula ria	
			Thallass iosira	Thalassi onema	Thallass iosira	Melosir a	Rhizosol enia	Melosir a	Pleurosi gma	Thallass iosira	Pleurosi gma	Thallass iosira	Pleurosi gma	Thallass iosira	
В									Zoopla	ınkton					
1	Abudance (Populati on)	noX10 3/ 100 m3	7:	2	7:	3	7	2	7	' 1	7	2	7	' 1	APHA (24rd Ed. 2023)10200 G
2	Name of		Nitzs	chia	Nitzs	chia	Nitz	schia	Соре	pods	Соре	pods	Соре	pods	
	Group		Gramma	tophora	Gramma	tophora	Grammo	ntophora	Oiko	plura	Oiko	plura	Oiko	plura	
	Number and name	Diploneis		Diplo	neis		sh and mps)		acean vae	Crustacean Larvae			acean vae		
	of group species of		Thalassiothrix		Thalassiothrix		Thalas	siothrix	Crustacean		Crustacean		Crust	acean	
	each group	each Pleurosia		sigma	Pleurosigma		Pleurosigma		Bivalve Larvae		Bivalve Larvae		Egg(Fish and Shrimps)		
3	Total Biomass	ml/10 0 m ³	14.	56	14.	57	14	.58	14	.57	14	.56	14	.57	

Abstracts and The EPA, 1986 (02.04.302) to 29.03.2028

NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Tening Laboratory (TC-15 945) (22.01.2023 to 22.00.2024)

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RESULTS OF MARINE WATER [M12 SPM N 22°40'938" E 069°39'191"]

SR. NO	TEST PARAMETER	UNIT	Oct-24		ct-24 Nov-24		Dec-24		Jan-25		Feb-25		ar-25	TEST METHOD
•	S		SURFACE	воттом	SURFACE	воттом	SURFACE	BOTTOM	1 SURFACE	воттом	SURFACE	воттом		
С								Mic	robiological					
1	Total	CFU/ml												APHA 24 th
	Bacterial		25	6	51		260		262		264		266	Ed.2023,9215
	Count													-C
2	Total	/100ml												APHA
	Coliform		52	2	43		52		51		50		52	24thEd.2023,
														9222-B
3	E.coli	/100ml	42		42 33		41		40		41		40	IS
			42	-	33		41		40		41		40	:15185:2016
4	Enterococcus	/100ml	32	,	Absent		34		33		34		33	IS:15186:200
			32	-	Absent	•	34		33		3 4		33	2
5	Salmonella	/100ml	۸haa		Abson		Absout		Absout		Absout	Λ.		IS:15187:201
			Abse	ent	Absen	L	Absent		Absent		Absent	A	sent	6
6	Shigella	/100ml												АРНА
			Abse	ent	Absent	t	Absent		Absent		Absent	Al	sent	24thEd.2023,
														9260-E
7	Vibrio	/100ml	A bas	4	Absorb		Absout		Absout		A l			IS: 5887 (Part
			Abse	ent	Absent	L .	Absent		Absent		Absent	A	osent	V):1976

Reset

Mr. Nilesh Patel Sr. Chemist



Mr. Nitin Tandel **Technical Manager**

NAME ORIGINAL STREET STREET ACCOUNTS Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3004)

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INCH STORY . INCH 4500X: JULIE CAVERAGE Environmental Auditor (Sch-II) Certified Company CHI, Wanagement System

RESULTS OF ETP OUTLET WATER

				T	•	ERMINAL		T		
SR.NO.	TEST	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	GPCB	TEST METHOD
	PARAMETERS		24-10-2024	25-11-2024	25-12-2024	24-01-2025	18-02-2025	06-03-2025	Limit	
1.	Colour	Pt. Co. Scale	40	50	40	40	40	40	100	IS 3025(Part 4):2021
2.	pH @ 27 ° C		7.64	7.28	7.14	7.22	7.34	7.42	6.5 to 8.5	IS 3025(Part 11):2022
3.	Temperature	°C	30	30	29	29	30	30.5	40	IS 3025(Part 9):2023
4.	Total Suspended Solid	mg/L	54	36	18	26	24	36	100	APHA 24th Ed.2023,2540 –D
5.	Total Dissolved Solids	mg/L	648	622	580	628	610	644	2100	APHA 24th Ed.2023,2540- C
6.	COD	mg/L	92.2	88.5	78.4	82.2	86.1	81.2	100	IS 3025(Part 58):2023
7.	BOD (3 days at 27 °C)	mg/L	27	26	23	25	26	24	30	IS 3025(Part 44):2023
8.	Chloride (as Cl)	mg/L	242.2	262.2	302	280	294	274.5	600	IS 3025(Part 32):1988
9.	Oil & Grease	mg/L	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	BDL(MDL:4.0)	10	IS 3025(Part 39):2021
10.	Sulphate (as SO ₄)	mg/L	42	48	52	26	32	42	1000	IS 3025(Part 24):2022
11.	Ammonical Nitrogen	mg/L	22.2	15.6	19.8	12.1	18.6	22.4	50	IS 3025(Part 34):1988,
12.	Phenolic Compound	mg/L	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	1	IS 3025(Part 43):2022
13.	Copper as Cu	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	3	IS 3025(Part 42):1992
14.	Lead as Pb	mg/L	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	0.1	APHA 24th Ed.2023,3111-B



NAME OROUGE A PROPERTURE OF A COMMON REPORT OF THE PARTY Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

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SR.NO.	TEST PARAMETERS	UNIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	GPCB Limit	TEST METHOD
			24-10-2024	25-11-2024	25-12-2024	24-01-2025	18-02-2025	06-03-2025	Limit	
15.	Sulphide as S	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	2	APHA 24th Ed.2023,4500 S ⁻² F
16.	Cadmium as Cd	mg/L	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	2	APHA 24th Ed.2023,3111-B
17.	Fluoride as F	mg/L	1.91	1.28	0.82	0.45	0.37	0.56	2	APHA 24th Ed.2023,4500 F, D
18.	Residual Chlorine	mg/L	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	0.5 Min.	APHA 24th Ed.2023,4500-Cl-G
19.	Percent Sodium	%	47.64	47.49	46.15	46.86	46.05	47.13	60	By Calculation
20.	Sodium Absorption ratio		3.20	3.2	3.3	3.4	3.1	2.9	26	By Calculation

Dese!

Mr. Nilesh Patel Sr. Chemist

CULIARAT



NAME ORIGINAL STREET STREET ACCOUNTS Teniong Laboratory (TC-13:345) (22.01.2023 to 22.00.2024)

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INC 9003 2015 | ISC 45002 2018 Cartified

	Results of Ambient Air Quality Monitoring												
Name	of Location	CT3 RMU-2											
	Date of			Pa	rameter with Re	sults							
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO ₂ μg/m³	CO mg/m ³	HC µg/m³	Benzene μg/m³					
1.	03-10-2024	73.58	29.12	23.37	26.41	1.06		NOT DETECTED					
2.	07-10-2024	77.65	30.21	24.73	27.14	1.08	4.64	NOT DETECTED					
3.	10-10-2024	80.42	31.46	25.08	29.14	1.05	4.59	NOT DETECTED					
4.	14-10-2024	83.48	34.81	25.79	30.11	1.09	4.68	NOT DETECTED					
5.	17-10-2024	85.13	35.5	26	30.84	1.12	4.74	NOT DETECTED					
6.	21-10-2024	81.32	33.98	25.63	29.37	1.16	4.81	NOT DETECTED					
7.	24-10-2024	76.59	30.43	23.25	27.51	1.13	4.72	NOT DETECTED					
8.	28-10-2024	78.65	31.52	24.36	28.49	1.1	4.86	NOT DETECTED					
9.	31-10-2024	81.26	33.54	25.31	29.16	1.11	4.76	NOT DETECTED					
10.	04-11-2024	80.73	32.15	25.53	29.37	1.08	4.71	NOT DETECTED					
11.	07-11-2024	83.15	34.82	26.48	30.52	1.14	4.86	NOT DETECTED					
12.	11-11-2024	79.74	31.93	24.78	28.64	1.11	4.78	NOT DETECTED					
13.	14-11-2024	82.37	33.25	25.57	29.48	1.13	4.84	NOT DETECTED					
14.	18-11-2024	84.59	36.74	27.15	31.28	1.19	4.91	NOT DETECTED					
15.	21-11-2024	81.36	34.89	26.43	30.86	1.15	4.85	NOT DETECTED					



MotPh() Borng Environmental Laboratory under The EPA, 1965 (02.04.3025 to 29.09.2028)

NAME ORIGINAL STREET SPECTS ACCORDING Textong Laboratory (TC-15345) (22.01.2023 to 22.09.2024)

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INC 9003 2015 | ISC 45002 2018 Cartified

Name	e of Location	CT3 RMU-2						
	Date of			Pa	rameter with Re	esults		
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO₂ μg/m³	NO ₂ μg/m ³	CO mg/m ³	HC μg/m³	Benzene µg/m³ NOT DETECTED NOT DETECTED
16.	25-11-2024	83.48	35.71	28.16	32.12	1.17	4.78	NOT DETECTED
17.	28-11-2024	80.94	33.47	25.29	29.64	1.14	4.82	NOT DETECTED
18.	02-12-2024	82.18	35.42	27.37	31.84	1.13	4.85	NOT DETECTED
19.	05-12-2024	79.64	34.12	26.31	29.97	1.10	4.73	NOT DETECTED
20.	09-12-2024	76.38	32.85	23.97	28.53	1.07	4.61	NOT DETECTED
21.	12-12-2024	78.16	35.25	24.37	29.13	1.1	4.7	NOT DETECTED
22.	16-12-2024	81.36	36.61	26.78	31.53	1.12	4.75	NOT DETECTED
23.	19-12-2024	84.63	38.05	29.1	34.09	1.16	4.88	NOT DETECTED
24.	23-12-2024	82.49	35.64	27.48	32.26	1.13	4.82	NOT DETECTED
25.	26-12-2024	77.64	32.36	25.84	30.11	1.11	4.75	NOT DETECTED
26.	30-12-2024	80.83	34.28	28.17	32.74	1.14	4.81	NOT DETECTED
27.	02-01-2025	79.85	34.71	26.69	30.84	1.12		NOT DETECTED
28.	06-01-2025	81.53	35.94	28.63	33.18	1.15	4.92	NOT DETECTED
29.	09-01-2025	84.69	38.47	31.6	36.47	1.18	5.18	NOT DETECTED
30.	13-01-2025	79.53	35.13	28.26	33.52	1.13	4.86	NOT DETECTED
31.	16-01-2025	83.8	40.38	30.79	35.48	1.16	4.98	NOT DETECTED



MotPh(C Borog Environmental Laboratory under The EPA, 1968, (02.04.302) to 29.09.2028)

NAME ORIGINAL STREET SPECTS ACCORDING Tening Laboratory (TC-15345) (22.0), 2025 to 23.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INCH STORY . INCH 4500X: JULIE CAVERAGE

Name	of Location	CT3 RMU-2						
	Date of			Pa	arameter with Re	esults		
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO₂ μg/m³	NO ₂ μg/m³	CO mg/m ³	HC μg/m³	Benzene μg/m³
32.	20-01-2025	78.98	36.62	26.35	31.63	1.15	4.8	NOT DETECTED
33.	23-01-2025	83.47	39.89	30.27	35.72	1.18	4.85	NOT DETECTED
34.	27-01-2025	81.53	37.25	27.74	32.35	1.17	4.73	NOT DETECTED
35.	30-01-2025	84.79	40.91	31.16	36.75	1.21	4.93	NOT DETECTED
36.	03-02-2025	83.26	38.13	29.57	33.91	1.16	4.84	NOT DETECTED
37.	06-02-2025	79.75	34.42	26.37	30.46	1.13	4.71	NOT DETECTE
38.	10-02-2025	81.64	36.19	27.35	32.12	1.14	4.77	NOT DETECTE
39.	13-02-2025	84.15	38.91	30.15	34.68	1.18	4.89	NOT DETECTE
40.	17-02-2025	80.81	35.47	26.89	30.52	1.15	4.68	NOT DETECTE
41.	20-02-2025	82.38	37.25	28.64	31.83	1.17	4.74	NOT DETECTE
42.	24-02-2025	84.58	39.32	30.74	34.2	1.13	4.93	NOT DETECTE
43.	27-02-2025	80.42	36.1	27.42	31.64	1.15	4.82	NOT DETECTE
44.	03-03-2024	81.29	39.12	31.62	35.27	1.15	4.87	NOT DETECTE
45.	06-03-2024	77.94	36.37	27.98	31.75	1.12	4.75	NOT DETECTE
46.	10-03-2024	79.42	37.48	28.74	32.36	1.14	4.82	NOT DETECTE
47.	13-03-2024	82.38	39.71	33.24	37.1	1.17	4.91	NOT DETECTE



MotPh(X Borog Environmental Laboratory under The EPA, 1985 (0X.04.3025 to 29.03.2028)

NAME ORIGINAL STREET STREET, ACCOMMISSES Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3026)

CICH NAMET ASSESSMENT DA N. OW. Consultant Organisation

UPCS herogeness Environmental Auditor (Sch-II) Certified Company CHI, Management System

Email: response@uerl.in Website: www.uerl.in

Plot No.54; Wireld Business Perk. NH No.48, GIDC, West-356395 Drist-Valuari (Gugarat), India Phone + 91 260 2483966/2425610

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Name	e of Location	CT3 RMU-2						
	Date of			Pa	rameter with Re	esults		
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO₂ μg/m³	CO mg/m ³	HC μg/m³	Benzene μg/m³
48.	17-03-2024	76.59	33.94	28.13	33.42	1.15	4.8	NOT DETECTED
49.	20-03-2024	81.24	35.58	31.79	36.21	1.16	4.86	NOT DETECTED
50.	24-03-2024	83.49	38.11	33.78	37.01	1.19	4.96	NOT DETECTED
51.	27-03-2024	78.91	34.78	29.19	33.37	1.15	4.84	NOT DETECTED
52.	31-03-2024	82.35	36.27	32.46	36.95	1.17	4.88	NOT DETECTED
	Permissible Value as per NAAQMS		60.0	80.0	80.0	2.0		5.0
Tes	Test Method		UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS – 5182, Part – 11

Rajnish D. Gohil (Chemist)

GUJARAT VAPL



NAME ORIGINAL STREET STREET ACCOUNTS Teniong Laboratory (TC-13:345) (22.01.2023 to 22.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

SATIST THE HIGH STATE OF Environmental Auditor (Sch-II) Certified Company CHI, Management System

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	Results of Ambient Air Quality Monitoring										
Name	of Location	Near Fire Stati	on								
	Date of		Parameter with Results								
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO ₂ μg/m ³	CO mg/m ³	HC µg/m³	Benzene µg/m³ NOT DETECTED NOT DETECTED			
1.	03-10-2024	65.38	22.47	18.29	22.73	0.58		NOT DETECTED			
2.	07-10-2024	69.46	23.83	19.66	24.15	0.62	2.69	NOT DETECTED			
3.	10-10-2024	67.42	22.31	18.63	22.53	0.59	2.76	NOT DETECTED			
4.	14-10-2024	75.38	24.59	21.37	25.48	0.67	2.83	NOT DETECTED			
5.	17-10-2024	72.39	23.64	19.47	23.26	0.62	2.75	NOT DETECTED			
6.	21-10-2024	77.52	25.47	22.04	26.53	0.7	2.93	NOT DETECTED			
7.	24-10-2024	70.15	23.91	19.11	23.41	0.64	2.78	NOT DETECTED			
8.	28-10-2024	73.27	24.68	20.73	24.6	0.66	2.82	NOT DETECTED			
9.	31-10-2024	76.42	26.53	21.91	25.73	0.69	2.94	NOT DETECTED			
10.	04-11-2024	73.26	24.41	20.15	25.32	0.65	2.87	NOT DETECTED			
11.	07-11-2024	76.13	25.32	21.73	27.49	0.71	2.96	NOT DETECTED			
12.	11-11-2024	74.39	24.68	20.39	25.11	0.67	2.84	NOT DETECTED			
13.	14-11-2024	70.84	23.14	19.83	23.94	0.61	2.76	NOT DETECTED			
14.	18-11-2024	73.46	24.17	21.26	25.74	0.64	2.81	NOT DETECTED			
15.	21-11-2024	76.18	25.74	23.06	27.34	0.73	2.93	NOT DETECTED			



MotPh() Borng Environmental Laboratory under The EPA, 1965 (02.04.3025 to 29.09.2028)

NAME ORIGINAL STREET STREET ACCOUNTS Textong Laboratory (TC-15345) (22.01.2023 to 22.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organisation

SATIST THE HIGH STATE OF Environmental Auditor (Sch-II) Certified Company CHI, Management System

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Plot No.54; Wireld Business Perk. NH NO.48. GLDC., Vept-356395 Drist-Valuari (Gugarat), India Phone + 91 260 2411966/2625610

INC 9003 2015 | ISC 45002 2018 Cartified

Name	e of Location	Near Fire Station								
	Date of		Parameter with Results							
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO₂ μg/m³	NO ₂ μg/m ³	CO mg/m ³	HC μg/m³	Benzene µg/m³ NOT DETECTED NOT DETECTED		
16.	25-11-2024	74.38	24.1	22.75	26.15	0.7	2.86	NOT DETECTED		
17.	28-11-2024	71.64	23.53	21.37	24.83	0.66	2.82	NOT DETECTED		
18.	02-12-2024	75.62	23.47	21.28	25.72	0.7	2.88	NOT DETECTED		
19.	05-12-2024	71.28	22.84	20.18	24.11	0.64	2.8	NOT DETECTED		
20.	09-12-2024	73.49	23.37	20.72	25.05	0.67	2.83	NOT DETECTED		
21.	12-12-2024	78.51	26.36	23.53	27.25	0.72	2.9	NOT DETECTED		
22.	16-12-2024	75.24	25.63	22.81	26.42	0.68	2.96	NOT DETECTED		
23.	19-12-2024	80.13	27.16	24.31	28.47	0.76	2.91	NOT DETECTED		
24.	23-12-2024	77.4	26.08	23.64	27.58	0.71	2.83	NOT DETECTED		
25.	26-12-2024	74.38	24.25	21.92	25.31	0.66	2.78	NOT DETECTED		
26.	30-12-2024	76.91	27.29	23.35	27.44	0.69	2.81	NOT DETECTED		
27.	02-01-2025	79.41	28.32	23.75	26.82	0.72		NOT DETECTED		
28.	06-01-2025	82.38	29.74	25.48	29.79	0.77	2.94	NOT DETECTED		
29.	09-01-2025	84.38	31.05	26.81	30.63	0.7	3.15	NOT DETECTED		
30.	13-01-2025	76.87	27.53	23.14	27.36	0.76	2.87	NOT DETECTED		
31.	16-01-2025	73.29	25.48	22.85	25.98	0.81	2.81	NOT DETECTED		



MotPh() Borng Environmental Laboratory under The EPA, 1965 (02.04.3025 to 29.09.2028)

NAME ORIGINAL STREET SPECTS ACCORDING Textong Laboratory (TC-15345) (22.01.2023 to 22.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organisation

SATIST THE HIGH STATE OF Environmental Auditor (Sch-II) Certified Company CHI, Management System

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Plot No.54; Wireld Business Perk. NH NO.48. GLDC., Vept-356395 Drist-Valuari (Gugarat), India Phone + 91 260 2411966/2625610

INC 9003 2015 | ISC 45002 2018 Cartified

Name	of Location	Near Fire Station								
	Date of			Pa	rameter with Re	esults				
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO₂ μg/m³	NO ₂ μg/m ³	CO mg/m ³	HC μg/m³	Benzene µg/m³ NOT DETECTED NOT DETECTED		
32.	20-01-2025	78.52	28.18	23.79	27.25	0.79	2.92	NOT DETECTED		
33.	23-01-2025	81.36	30.67	26.35	30.52	0.85	3.05	NOT DETECTED		
34.	27-01-2025	76.46	27.53	24.16	28.27	0.82	2.9	NOT DETECTED		
35.	30-01-2025	74.94	25.58	23.47	26.59	0.78	2.83	NOT DETECTED		
36.	03-02-2025	75.18	29.32	24.27	28.46	0.75	2.87	NOT DETECTED		
37.	06-02-2025	78.91	30.75	25.81	29.17	0.81	2.94	NOT DETECTED		
38.	10-02-2025	73.48	26.59	24.75	28.46	0.71	2.81	NOT DETECTED		
39.	13-02-2025	76.64	28.25	25.14	29.15	0.77	2.86	NOT DETECTED		
40.	17-02-2025	82.38	31.72	28.64	32.07	0.83	2.95	NOT DETECTED		
41.	20-02-2025	72.39	26.48	24.56	28.28	0.76	2.84	NOT DETECTED		
42.	24-02-2025	76.81	27.98	27.81	31.19	0.8	2.9	NOT DETECTED		
43.	27-02-2025	81.26	30.86	28.42	32.15	0.85	2.93	NOT DETECTED		
44.	03-03-2024	78.63	27.54	25.13	30.42	0.73	2.83	NOT DETECTED		
45.	06-03-2024	80.13	29.71	28.19	32.62	0.79	2.91	NOT DETECTED		
46.	10-03-2024	82.3	31.54	29.05	33.91	0.85	2.96	NOT DETECTED		
47.	13-03-2024	79.71	28.32	26.83	31.31	0.77	2.81	NOT DETECTED		



MotPh(X Sering Environmental Laboratory under The EPA, 1986; (0X.04.3025 to 29.03.2028)

NAME ORIGINAL STREET STREET, ACCOMMISSES Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3026)

CICH NAMET ASSESSMENT DA N. OW. Consultant Organisation

UPCS herogeness Environmental Auditor (Sch-II) Certified Company CHI, Management System

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INC 9003 2015 | ISC 45002 2018 Cartified

Name	e of Location	Near Fire Station								
	Date of		Parameter with Results							
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO₂ μg/m³	CO mg/m ³	HC μg/m³	Benzene μg/m³		
48.	17-03-2024	75.48	27.19	25.61	29.18	0.72	2.85	NOT DETECTED		
49.	20-03-2024	81.32	30.04	27.13	32.42	0.81	2.92	NOT DETECTED		
50.	24-03-2024	74.88	28.64	25.86	30.23	0.78	2.79	NOT DETECTED		
51.	27-03-2024	72.96	27.41	24.99	28.35	0.73	2.76	NOT DETECTED		
52.	31-03-2024	76.59	28.68	26.36	30.21	0.8	2.84	NOT DETECTED		
	Permissible Value as per NAAQMS		60.0	80.0	80.0	2.0		5.0		
Tes	st Method	IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS – 5182, Part – 11		

Rajnish D. Gohil (Chemist)

GUJARAT VAPL



NAME ORIGINAL STREET STREET ACCOUNTS Teniong Laboratory (TC-13:345) (22.01.2023 to 22.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INC 9003 2015 | ISC 45002 2018 Cartified

	Results of Ambient Air Quality Monitoring										
Name	of Location	ADANI PORT –	TUG Berth 600	KL Pupm House							
	Date of			Pa	rameter with Re	esults	ılts				
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO ₂ μg/m ³	CO mg/m ³	HC μg/m³	Benzene μg/m³			
1.	03-10-2024	70.81	26.95	21.79	24.69	0.73		NOT DETECTED			
2.	07-10-2024	72.26	27.85	22.13	25.42	0.77	3.71	NOT DETECTED			
3.	10-10-2024	75.14	28.74	23.62	26.47	0.82	3.75	NOT DETECTED			
4.	14-10-2024	81.27	31.73	25.86	28.42	0.85	3.82	NOT DETECTED			
5.	17-10-2024	77.46	29.94	25.39	29.63	0.79	3.74	NOT DETECTED			
6.	21-10-2024	75.81	28.42	23.16	26.42	0.74	3.77	NOT DETECTED			
7.	24-10-2024	79.73	30.58	24.49	27.68	0.81	3.85	NOT DETECTED			
8.	28-10-2024	84.3	32.68	25.96	29.51	0.84	3.88	NOT DETECTED			
9.	31-10-2024	80.53	30.62	24.73	27.32	0.81	3.82	NOT DETECTED			
10.	04-11-2024	78.63	29.54	23.37	27.13	0.83	3.81	NOT DETECTED			
11.	07-11-2024	80.38	30.47	24.84	28.42	0.87	3.93	NOT DETECTED			
12.	11-11-2024	82.16	32.47	26.13	30.64	0.92	3.98	NOT DETECTED			
13.	14-11-2024	78.37	29.18	23.15	27.55	0.81	3.86	NOT DETECTED			
14.	18-11-2024	80.48	30.72	24.95	28.14	0.85	3.92	NOT DETECTED			
15.	21-11-2024	83.26	33.14	26.31	30.18	0.89	4.12	NOT DETECTED			



NAME ORIGINAL STREET STREET ACCOUNTS Teniong Laboratory (TC-13:345) (22.01.2023 to 22.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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Plot No.54; Wireld Business Perk. NH NO.48. GLDC., Vept-356395 Drist-Valuari (Gugarat), India Phone + 91 260 2411966/2625610

INC 9003 2015 | ISC 45002 2018 Cartified

Name	e of Location	ADANI PORT – TUG Berth 600 KL Pupm House								
	Date of			Pa	rameter with Re	esults				
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO₂ μg/m³	NO ₂ μg/m ³	CO mg/m ³	HC μg/m³	Benzene μg/m³		
16.	25-11-2024	81.64	32.19	24.37	28.53	0.84	4.03	NOT DETECTED		
17.	28-11-2024	79.19	30.63	23.59	27.34	0.82	3.89	NOT DETECTED		
18.	02-12-2024	80.45	32.18	24.52	29.41	0.83	3.96	NOT DETECTED		
19.	05-12-2024	83.47	35.46	26.93	30.79	0.9	3.97	NOT DETECTED		
20.	09-12-2024	81.36	31.93	25.37	30.13	0.85	3.9	NOT DETECTED		
21.	12-12-2024	79.55	30.48	23.73	28.15	0.77	3.86	NOT DETECTED		
22.	16-12-2024	78.38	29.53	22.98	27.46	0.75	3.76	NOT DETECTED		
23.	19-12-2024	83.46	34.8	27.35	32.07	0.86	3.81	NOT DETECTED		
24.	23-12-2024	79.91	31.49	25.35	30.72	0.78	3.74	NOT DETECTED		
25.	26-12-2024	81.81	33.54	26.28	31.17	0.8	3.79	NOT DETECTED		
26.	30-12-2024	83.25	35.74	27.1	32.59	0.87	3.87	NOT DETECTED		
27.	02-01-2025	82.63	36.27	27.84	32.13	0.9		NOT DETECTED		
28.	06-01-2025	76.94	32.15	24.98	29.64	0.81	3.78	NOT DETECTED		
29.	09-01-2025	79.83	34.74	26.39	31.46	0.86	3.83	NOT DETECTED		
30.	13-01-2025	82.62	37.15	29.73	33.28	0.89	3.91	NOT DETECTED		
31.	16-01-2025	84.59	38.35	30.18	34.62	0.93	4.08	NOT DETECTED		



NAME ORIGINAL STREET STREET ACCOUNTS Teniong Laboratory (TC-13:345) (22.01.2023 to 22.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INC 9003 2015 | ISC 45002 2018 Cartified

Name	of Location	ADANI PORT – TUG Berth 600 KL Pupm House								
	Date of			Pa	rameter with Re	esults				
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m ³	NO ₂ μg/m ³	CO mg/m ³	HC μg/m³	Benzene µg/m³ NOT DETECTED NOT DETECTED		
32.	20-01-2025	80.83	36.46	28.35	33.14	0.84	3.96	NOT DETECTED		
33.	23-01-2025	78.42	33.64	26.42	31.26	0.79	3.82	NOT DETECTED		
34.	27-01-2025	76.84	32.69	25.94	30.52	0.77	3.75	NOT DETECTED		
35.	30-01-2025	80.73	35.47	28.31	33.53	0.85	3.81	NOT DETECTED		
36.	03-02-2025	78.51	34.13	28.63	33.26	0.8	3.71	NOT DETECTED		
37.	06-02-2025	82.37	37.74	30.49	35.83	0.84	3.83	NOT DETECTED		
38.	10-02-2025	72.82	32.74	26.85	31.56	0.75	3.67	NOT DETECTED		
39.	13-02-2025	75.48	34.16	26.98	31.72	0.78	3.73	NOT DETECTED		
40.	17-02-2025	81.29	36.93	29.91	34.12	0.83	3.85	NOT DETECTED		
41.	20-02-2025	84.13	38.36	31.53	36.42	0.87	3.94	NOT DETECTED		
42.	24-02-2025	75.49	34.78	26.64	31.72	0.77	3.78	NOT DETECTED		
43.	27-02-2025	79.85	36.62	29.14	34.88	0.82	3.72	NOT DETECTED		
44.	03-03-2024	83.16	37.62	30.85	34.17	0.88	3.82	NOT DETECTED		
45.	06-03-2024	81.39	36.15	27.53	31.46	0.80	3.77	NOT DETECTED		
46.	10-03-2024	75.49	33.96	26.13	30.79	0.76	3.7	NOT DETECTED		
47.	13-03-2024	78.41	34.57	27.98	32.13	0.82	3.74	NOT DETECTED		



MotPh(X Sering Environmental Laboratory under The EPA, 1986; (0X.04.3025 to 29.03.2028)

NAME ORIGINAL STREET STREET, ACCOMMISSES Teniong Laboratory (TC-15345) (22.0), JOSS to 22.00.2024)

CICH NAMET AND VANDOUG DAY ALCOHOL Consultant Organisation

UPCS herogeness Environmental Auditor (Sch-II) Certified Company CHI Management System

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INC 9003 2015 | ISC 45002 2018 Cartified

Name	e of Location	ADANI PORT – TUG Berth 600 KL Pupm House								
	Date of			Pa	rameter with Re	esults				
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO₂ μg/m³	CO mg/m ³	HC μg/m³	Benzene μg/m³		
48.	17-03-2024	82.37	35.14	29.75	34.24	0.86	3.8	NOT DETECTED		
49.	20-03-2024	85.36	39.11	31.45	36.27	0.91	3.86	NOT DETECTED		
50.	24-03-2024	80.71	36.54	27.53	32.47	0.84	3.78	NOT DETECTED		
51.	27-03-2024	83.47	37.17	30.35	34.18	0.89	3.83	NOT DETECTED		
52.	31-03-2024	79.91	35.27	28.31	32.54	0.78	3.8	NOT DETECTED		
Permissible Value as per NAAQMS		100.0	60.0	80.0	80.0	2.0		5.0		
Test Method		IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS – 5182, Part – 11		

Rajnish D. Gohil (Chemist)

GUJARAT VAPL



NAME ORIGINAL STREET STREET ACCOUNTS Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

DEP-RABET ASSESSMENT DA & DW Consultant Organisation

UPCS herogeness Environmental Auditor (Sch-II) Certified Company CHI, Management System

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Plot No.54; Wireld Business Perk. NH No.48, GIDC, West-356395 Drist-Valuari (Gugarat), India Phone + 91 260 2411966/2625610

INC 9003 2015 | ISC 45002 2018 Cartified

	Results of Ambient Air Quality Monitoring										
Name	of Location	PUB / Adani H	ouse								
	Date of			Pa	rameter with Re	esults					
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO ₂ μg/m³	CO mg/m ³	HC µg/m³	Benzene μg/m³			
1.	03-10-2024	56.80	22.15	15.77	18.46	0.52		NOT DETECTED			
2.	07-10-2024	58.63	22.72	16.38	19.62	0.56	1.73	NOT DETECTED			
3.	10-10-2024	62.42	23.19	17.42	20.38	0.59	1.77	NOT DETECTED			
4.	14-10-2024	59.74	22.52	16.46	19.31	0.53	1.70	NOT DETECTED			
5.	17-10-2024	63.27	24.36	17.71	20.88	0.55	1.82	NOT DETECTED			
6.	21-10-2024	66.84	26.31	18.25	22.10	0.61	1.88	NOT DETECTED			
7.	24-10-2024	68.61	26.77	18.69	22.36	0.63	1.94	NOT DETECTED			
8.	28-10-2024	63.28	25.11	16.52	19.83	0.57	1.85	NOT DETECTED			
9.	31-10-2024	66.17	26.32	17.39	20.42	0.60	1.97	NOT DETECTED			
10.	04-11-2024	64.18	24.84	15.93	19.31	0.61	1.93	NOT DETECTED			
11.	07-11-2024	67.27	26.18	17.26	20.64	0.64	2.18	NOT DETECTED			
12.	11-11-2024	69.81	28.26	18.15	22.37	0.70	2.31	NOT DETECTED			
13.	14-11-2024	65.48	27.62	17.13	21.53	0.67	2.15	NOT DETECTED			
14.	18-11-2024	63.21	24.92	16.83	20.42	0.64	2.06	NOT DETECTED			
15.	21-11-2024	66.38	25.46	17.53	21.72	0.68	2.14	NOT DETECTED			



NAME ORIGINAL STREET STREET ACCOUNTS Teniong Laboratory (TC-13:345) (22.01.2023 to 22.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INC 9003 2015 | ISC 45002 2018 Cartified

Name of Location		PUB / Adani H	ouse									
	Date of		Parameter with Results									
Sr. No.	Monitoring	PM ₁₀ μg/m³	PM _{2.5} μg/m ³	SO ₂ μg/m ³	NO ₂ μg/m ³	CO mg/m ³	HC μg/m³	Benzene μg/m³				
16.	25-11-2024	63.40	24.84	16.46	20.34	0.60	2.03	NOT DETECTED				
17.	28-11-2024	65.37	25.19	17.11	20.75	0.66	2.10	NOT DETECTED				
18.	02-12-2024	67.14	26.53	16.32	20.17	0.64	2.06	NOT DETECTED				
19.	05-12-2024	70.37	28.84	17.78	21.43	0.68	2.19	NOT DETECTED				
20.	09-12-2024	72.62	29.91	18.24	22.48	0.71	2.31	NOT DETECTED				
21.	12-12-2024	67.36	26.84	16.60	20.51	0.67	2.27	NOT DETECTED				
22.	16-12-2024	70.41	28.47	17.49	21.37	0.69	2.34	NOT DETECTED				
23.	19-12-2024	73.39	28.72	18.83	22.55	0.73	2.37	NOT DETECTED				
24.	23-12-2024	65.45	25.84	15.91	19.32	0.66	2.26	NOT DETECTED				
25.	26-12-2024	68.42	26.38	17.24	21.84	0.70	2.30	NOT DETECTED				
26.	30-12-2024	66.18	25.97	16.59	20.45	0.67	2.23	NOT DETECTED				
27.	02-01-2025	70.52	25.92	18.13	23.35	0.68		NOT DETECTED				
28.	06-01-2025	66.58	27.51	17.52	21.89	0.65	2.46	NOT DETECTED				
29.	09-01-2025	64.48	24.61	16.94	21.13	0.63	2.31	NOT DETECTED				
30.	13-01-2025	68.26	26.81	17.59	22.64	0.68	2.58	NOT DETECTED				
31.	16-01-2025	71.53	27.14	18.53	23.28	0.72	2.62	NOT DETECTED				



MotPh() Borng Environmental Laboratory under The EPA, 1965 (02.04.3025 to 29.09.2028)

NAME ORIGINAL STREET STREET ACCOUNTS Textong Laboratory (TC-15345) (22.01.2023 to 22.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organisation

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INC 9003 2015 | ISC 45002 2018 Cartified

Name of Location		PUB / Adani H	ouse								
	Date of	Parameter with Results									
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO₂ μg/m³	NO ₂ μg/m ³	CO mg/m ³	HC μg/m³	Benzene μg/m³			
32.	20-01-2025	75.49	29.42	19.39	25.03	0.76	2.68	NOT DETECTED			
33.	23-01-2025	73.49	28.10	18.53	23.74	0.73	2.6	NOT DETECTED			
34.	27-01-2025	68.58	26.35	16.84	21.53	0.68	2.48	NOT DETECTED			
35.	30-01-2025	71.24	27.51	17.46	23.58	0.72	2.54	NOT DETECTED			
36.	03-02-2025	72.71	26.18	17.65	22.11	0.65	2.52	NOT DETECTED			
37.	06-02-2025	76.42	28.53	19.42	24.35	0.68	2.57	NOT DETECTED			
38.	10-02-2025	78.64	29.35	19.97	25.17	0.70	2.64	NOT DETECTED			
39.	13-02-2025	69.53	25.93	17.11	22.64	0.63	2.55	NOT DETECTED			
40.	17-02-2025	66.81	24.76	16.99	22.19	0.62	2.49	NOT DETECTED			
41.	20-02-2025	70.61	26.53	17.84	23.15	0.66	2.57	NOT DETECTED			
42.	24-02-2025	74.58	28.46	19.54	24.63	0.72	2.65	NOT DETECTED			
43.	27-02-2025	68.75	25.11	16.79	21.36	0.68	2.59	NOT DETECTED			
44.	03-03-2024	67.53	23.47	15.93	19.72	0.64	2.46	NOT DETECTED			
45.	06-03-2024	70.23	25.74	18.13	22.45	0.66	2.51	NOT DETECTED			
46.	10-03-2024	73.46	27.91	19.20	23.42	0.71	2.48	NOT DETECTED			
47.	13-03-2024	68.63	23.58	16.24	20.63	0.68	2.55	NOT DETECTED			



MotPh(X Borog Environmental Laboratory under The EPA, 1985 (0X.04.3025 to 29.03.2028)

NAME OROUGH & PROPER DO NOT ACCOMPDISE Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3026)

CICH NAMET ASSESSMENT DA N. OW. Consultant Organisation

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INC 9003 2015 | ISC 45002 2018 Cartified

Name	e of Location	PUB / Adani H	ouse							
	Date of	Parameter with Results								
Sr. No.	Sr. No. Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO₂ μg/m³	CO mg/m ³	HC μg/m³	Benzene μg/m³		
48.	17-03-2024	65.48	23.91	15.97	19.63	0.64	2.45	NOT DETECTED		
49.	20-03-2024	70.13	25.85	16.36	20.11	0.72	2.57	NOT DETECTED		
50.	24-03-2024	74.36	27.54	18.69	22.65	0.75	2.6	NOT DETECTED		
51.	27-03-2024	72.91	25.86	17.64	21.91	0.70	2.53	NOT DETECTED		
52.	31-03-2024	76.14	27.88	19.16	23.45	0.74	2.57	NOT DETECTED		
	ble Value as per IAAQMS	100.0	60.0	80.0	80.0	2.0		5.0		
Tes	st Method	IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS – 5182, Part – 11		

Rajnish D. Gohil (Chemist)

GUJARAT VAPL



NAME ORIGINAL STREET STREET ACCOUNTS Teniong Laboratory (TC-13:345) (22.01.2023 to 22.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INC 9003 2015 | ISC 45002 2018 Cartified

			Results of A	<mark>mbient Air Q</mark> ւ	ality Monitor	ing					
Name	of Location	CT-4 RMU-2									
	Date of	Parameter with Results									
Sr. No.	Monitoring	PM ₁₀ μg/m³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO ₂ μg/m ³	CO mg/m ³	HC µg/m³	Benzene μg/m³			
1.	03-10-2024	70.41	24.22	17.65	20.97	0.60		NOT DETECTED			
2.	07-10-2024	72.38	24.95	18.06	22.24	0.63	3.68	NOT DETECTED			
3.	10-10-2024	75.48	26.15	19.14	23.51	0.62	3.74	NOT DETECTED			
4.	14-10-2024	78.74	28.45	19.88	23.93	0.67	3.79	NOT DETECTED			
5.	17-10-2024	74.39	26.37	18.54	22.48	0.65	3.72	NOT DETECTED			
6.	21-10-2024	76.59	27.79	19.36	23.41	0.68	3.81	NOT DETECTED			
7.	24-10-2024	81.26	29.19	20.58	24.72	0.72	3.87	NOT DETECTED			
8.	28-10-2024	77.64	28.37	19.93	23.32	0.67	3.80	NOT DETECTED			
9.	31-10-2024	75.24	26.44	18.26	21.57	0.68	3.82	NOT DETECTED			
10.	04-11-2024	76.29	26.83	19.14	23.31	0.69	3.78	NOT DETECTED			
11.	07-11-2024	78.63	27.28	19.93	23.78	0.71	3.83	NOT DETECTED			
12.	11-11-2024	80.64	28.13	20.58	24.63	0.76	3.89	NOT DETECTED			
13.	14-11-2024	84.38	30.62	22.13	26.48	0.82	3.96	NOT DETECTED			
14.	18-11-2024	82.47	29.63	21.15	25.24	0.78	3.91	NOT DETECTED			
15.	21-11-2024	75.47	26.39	19.28	23.74	0.73	3.81	NOT DETECTED			



MotPh() Borng Environmental Laboratory under The EPA, 1965 (02.04.3025 to 29.09.2028)

NAME ORIGINAL STREET STREET ACCOUNTS Textong Laboratory (TC-15345) (22.01.2023 to 22.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organisation

SATIST THE HIGH STATE OF Environmental Auditor (Sch-II) Certified Company CHI, Management System

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INC 9003 2015 | ISC 45002 2018 Cartified

Name of Location		CT-4 RMU-2									
	Date of	Parameter with Results									
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO₂ μg/m³	NO₂ μg/m³	CO mg/m ³	HC μg/m³	Benzene μg/m³			
16.	25-11-2024	79.75	27.48	20.26	24.35	0.79	3.90	NOT DETECTED			
17.	28-11-2024	76.18	26.91	19.74	23.19	0.71	3.84	NOT DETECTED			
18.	02-12-2024	78.16	27.53	21.87	25.43	0.74	3.81	NOT DETECTED			
19.	05-12-2024	81.35	28.74	22.46	27.11	0.78	3.89	NOT DETECTED			
20.	09-12-2024	83.29	30.61	23.75	27.94	0.84	3.97	NOT DETECTED			
21.	12-12-2024	77.45	27.49	21.36	25.17	0.75	3.82	NOT DETECTED			
22.	16-12-2024	75.47	26.89	20.07	24.58	0.72	3.76	NOT DETECTED			
23.	19-12-2024	78.52	28.69	21.40	25.55	0.76	3.80	NOT DETECTED			
24.	23-12-2024	81.48	31.34	23.63	27.19	0.81	3.85	NOT DETECTED			
25.	26-12-2024	75.37	27.53	19.97	24.48	0.73	3.77	NOT DETECTED			
26.	30-12-2024	77.19	28.32	20.41	26.13	0.77	3.82	NOT DETECTED			
27.	02-01-2025	80.53	31.48	23.61	27.17	0.85		NOT DETECTED			
28.	06-01-2025	76.49	28.53	22.28	25.83	0.77	3.87	NOT DETECTED			
29.	09-01-2025	74.92	27.73	21.69	26.14	0.75	3.76	NOT DETECTED			
30.	13-01-2025	78.59	29.17	23.42	27.26	0.80	3.92	NOT DETECTED			
31.	16-01-2025	81.64	31.75	25.48	29.06	0.84	4.12	NOT DETECTED			



MotPh() Borng Environmental Laboratory under The EPA, 1965 (02.04.3025 to 29.09.2028)

NAME ORIGINAL STREET STREET ACCOUNTS Textong Laboratory (TC-15345) (22.01.2023 to 22.09.2024)

DEP-RABET ASSESSMENT DA & DW Consultant Organisation

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INC 9003 2015 | ISC 45002 2018 Cartified

Name	of Location	CT-4 RMU-2									
	Date of	Parameter with Results									
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO₂ μg/m³	NO ₂ μg/m ³	CO mg/m ³	HC μg/m³	Benzene μg/m³			
32.	20-01-2025	84.38	33.51	26.30	30.64	0.87	4.18	NOT DETECTED			
33.	23-01-2025	79.47	28.64	23.14	27.53	0.78	3.97	NOT DETECTED			
34.	27-01-2025	82.37	31.78	24.57	28.49	0.84	4.07	NOT DETECTED			
35.	30-01-2025	84.39	32.91	26.37	30.72	0.90	4.16	NOT DETECTED			
36.	03-02-2025	83.16	32.75	26.38	31.29	0.91	3.97	NOT DETECTED			
37.	06-02-2025	80.73	30.82	23.84	28.61	0.84	3.89	NOT DETECTED			
38.	10-02-2025	82.37	31.58	24.14	29.46	0.81	3.84	NOT DETECTED			
39.	13-02-2025	77.95	28.64	23.91	27.87	0.79	3.80	NOT DETECTED			
40.	17-02-2025	81.38	32.16	25.12	30.45	0.85	3.94	NOT DETECTED			
41.	20-02-2025	79.64	30.24	24.86	28.74	0.82	3.84	NOT DETECTED			
42.	24-02-2025	84.63	34.85	26.57	31.65	0.90	3.92	NOT DETECTED			
43.	27-02-2025	81.05	32.48	25.62	30.18	0.86	3.87	NOT DETECTED			
44.	03-03-2024	80.91	30.83	28.13	32.46	0.85	4.13	NOT DETECTED			
45.	06-03-2024	84.36	33.57	30.24	34.83	0.94	4.27	NOT DETECTED			
46.	10-03-2024	78.37	29.96	28.74	33.15	0.81	4.03	NOT DETECTED			
47.	13-03-2024	81.63	30.98	29.64	32.89	0.88	4.15	NOT DETECTED			



MotPh(X Borog Environmental Laboratory under The EPA, 1985 (0X.04.3025 to 29.03.2028)

NAME ORIGINAL STREET STREET, ACCOMMISSES Teniong Laboratory (TC-15345) (22.0), JOSS to 22.00.2024)

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Name	e of Location	CT-4 RMU-2	RMU-2							
	Date of			Pa	rameter with Re	sults				
Sr. No.	Sr. No. Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO₂ μg/m³	CO mg/m ³	HC μg/m³	Benzene μg/m³		
48.	17-03-2024	83.29	34.57	31.51	35.64	0.92	4.23	NOT DETECTED		
49.	20-03-2024	85.91	36.21	34.01	38.46	0.97	4.37	NOT DETECTED		
50.	24-03-2024	81.63	34.79	30.27	34.68	0.84	4.20	NOT DETECTED		
51.	27-03-2024	83.37	36.13	32.41	36.32	0.89	4.12	NOT DETECTED		
52.	31-03-2024	84.89	32.42	33.56	37.54	0.85	4.26	NOT DETECTED		
	ble Value as per	100.0	100.0 60.0 80.0 80.0 2.0							
Tes	st Method	IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS - 5182, Part - 11		

Rajnish D. Gohil (Chemist)

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NAME ORIGINAL STREET STREET ACCOUNTS Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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			Results of No	ise Level Monitorin	ng		
	cation Name	CT3 RMU-2					
Sr.	Sampling Date			Noise Level Leq. d		I	
No.	and Time	14-10-2024	14-11-2024	12-12-2024	13-01-2025	13-02-2025	13-03-2025
1	06:00 to 07:00	63.3	63.8	62.5	63.5	61.9	60.8
2	07:00 to 08:00	65.1	64.3	63.8	62.7	64.7	63.4
3	08:00 to 09:00	64.3	65.7	65.1	63.7	64.2	65.7
4	09:00 to 10:00	64.7	65.9	64.3	66.4	64.3	66.3
5	10:00 to 11:00	65.8	66.7	65.7	67.8	66.7	67.4
6	11:00 to 12:00	68.5	65.8	67.3	65.6	65.8	66.8
7	12:00 to 13:00	67.1	68.3	65.4	67.3	67.2	67.3
8	13:00 to 14:00	68.3	67.5	66.3	65.2	66.4	67.1
9	14:00 to 15:00	64.2	66.4	64.8	65.8	67.5	66.4
10	15:00 to 16:00	65.4	64.8	63.6	64.5	66.5	65.7
11	16:00 to 17:00	68.2	67.5	65.1	64.3	63.4	64.5
12	17:00 to 18:00	67.4	65.8	64.3	65.8	62.8	65.1
13	18:00 to 19:00	67.1	66.3	65.4	62.3	64.6	66.3
14	19:00 to 20:00	65.5	63.2	65.8	63.7	64.1	64.5
15	20:00 to 21:00	65.4	65.7	63.2	64.1	62.3	63.1
16	21:00 to 22:00	62.8	63.4	62.4	62.3	61.8	62.3
	Day Time <75 dB (A)						



NAME ORIGINAL STORYS SOLETY ACCORDING Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3026)

DEP-RABET ASSESSMENT DA & DW Consultant Organisation

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INC 9003 2015 | ISC 45002 2018 Cartified

Lo	cation Name	CT3 RMU-2								
Sr.	Sampling Date	Noise Level Leq. dB(A) – Night Time								
No.	and Time	14-10-2024	14-11-2024	12-12-2024	13-01-2025	13-02-2025	13-03-2025			
1	22:00 to 23:00	63.5	63.2	61.5	60.8	61.3	60.5			
2	23:00 to 24:00	62.4	63.7	62.8	61.4	60.7	62.3			
3	24:00 to 01:00	64.5	65.1	64.3	60.7	61.5	62.7			
4	01:00 to 02:00	63.4	64.8	65.7	62.4	61.8	61.6			
5	02:00 to 03:00	65.4	63.5	64.3	62.8	62.4	63.8			
6	03:00 to 04:00	63.2	64.3	62.3	63.7	63.7	61.5			
7	04:00 to 05:00	62.9	63.4	64.1	61.4	61.3	62.3			
8	05:00 to 06:00	62.5	61.8	62.3	59.8	59.1	59.1			
	Night Time			<70 dI	B (A)					

	Test Method	IS: 9989 : 1981
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Rajnish D. Gohil (Chemist)

GUJARAT



NAME ORIGINAL STREET STREET ACCOUNTS Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INCH STORY . INCH 4500X: JULIE CAVERAGE

			Results of No	ise Level Monitorir	<u>ng</u>					
Lo	cation Name	Near Fire Station								
Sr.	Sampling Date	Noise Level Leq. dB(A) - Day Time								
No.	and Time	07-10-2024	07-11-2024	05-12-2024	06-01-2025	06-02-2025	06-03-2025			
1	06:00 to 07:00	62.6	63.2	64.5	62.3	60.5	62.2			
2	07:00 to 08:00	65.4	64.7	63.2	62.9	63.1	62.8			
3	08:00 to 09:00	67.4	65.3	66.4	66.1	62.8	64.5			
4	09:00 to 10:00	64.3	66.6	65.3	65.8	64.5	63.6			
5	10:00 to 11:00	66.3	64.3	64.1	63.4	67.1	66.1			
6	11:00 to 12:00	68.3	67.5	66.3	66.8	64.3	65.6			
7	12:00 to 13:00	68.9	68.1	67.4	65.4	64.8	64.2			
8	13:00 to 14:00	66.7	66.4	65.4	65.1	63.2	65.8			
9	14:00 to 15:00	64.8	65.7	64.8	65.5	64.7	66.4			
10	15:00 to 16:00	66.3	64.8	66.5	66.8	66.4	65.9			
11	16:00 to 17:00	66.3	67.2	65.4	66.3	64.3	65.1			
12	17:00 to 18:00	67.1	66.3	64.3	65.2	63.1	64.3			
13	18:00 to 19:00	65.9	64.3	65.1	65.8	64.3	63.8			
14	19:00 to 20:00	62.8	64.3	62.3	64.2	62.9	63.5			
15	20:00 to 21:00	64.2	64.6	60.7	63.5	65.1	64.2			
16	21:00 to 22:00	62.6	61.8	62.1	63.1	61.3	60.4			
	Day Time			<75 dE	B (A)					



MotPh(1) Borng Environmental Laboratory under The EPA, 1965 (02.04.3025 to 29.03.2028)

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INC 9003 2015 | ISC 45002 2018 Cartified

Lo	cation Name	Near Fire Station								
Sr.	Sampling Date	Noise Level Leq. dB(A) - Night Time								
No.	and Time	07-10-2024	07-11-2024	05-12-2024	06-01-2025	06-02-2025	06-03-2025			
1	22:00 to 23:00	63.6	62.5	61.5	62.3	63.5	61.4			
2	23:00 to 24:00	61.7	62.7	61.3	64.8	63.1	62.8			
3	24:00 to 01:00	63.5	61.4	63.8	62.8	62.8	64.3			
4	01:00 to 02:00	62.8	63.7	62.5	63.7	63.4	62.7			
5	02:00 to 03:00	64.5	64.3	64.2	62.5	63.7	62.5			
6	03:00 to 04:00	63.1	64.7	63.5	62.4	61.8	63.1			
7	04:00 to 05:00	60.8	63.1	61.8	60.3	60.5	60.5			
8	05:00 to 06:00	61.3	61.6	59.8	61.6	60.3	60.1			
	Night Time			<70 dI	B (A)					

Test Method	IS: 9989 : 1981
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Rajnish D. Gohil (Chemist)

GUJARAT



NAME ORIGINAL STREET STREET ACCOUNTS Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

	Results of Noise Level Monitoring										
Lo	Location Name ADANI PORT – TUG Berth 600 KL Pump House										
Sr.	Sampling Date	Noise Level Leq. dB(A) - Day Time									
No.	and Time	10-10-2024	11-11-2024	09-12-2024	09-01-2025	10-02-2025	10-03-2025				
1	06:00 to 07:00	61.5	61.1	60.8	59.9	57.7	57.3				
2	07:00 to 08:00	63.2	64.5	62.5	60.3	61.4	59.6				
3	08:00 to 09:00	64.8	66.8	63.7	65.1	62.8	60.2				
4	09:00 to 10:00	66.8	65.4	62.5	64.3	65.7	64.5				
5	10:00 to 11:00	68.1	67.3	66.4	65.7	64.3	65.8				
6	11:00 to 12:00	67.3	68.3	65.3	64.2	66.1	64.3				
7	12:00 to 13:00	65.4	65.4	66.3	66.1	64.3	65.7				
8	13:00 to 14:00	67.1	66.7	67.1	67.9	65.8	64.3				
9	14:00 to 15:00	66.2	66.3	65.4	64.3	63.2	65.7				
10	15:00 to 16:00	68.1	67.5	65.7	65.3	64.8	64.2				
11	16:00 to 17:00	64.8	65.7	66.3	65.1	66.1	66.7				
12	17:00 to 18:00	65.3	66.1	65.8	66.7	65.4	63.4				
13	18:00 to 19:00	66.4	65.3	61.7	62.4	63.8	64.9				
14	19:00 to 20:00	64.3	65.8	64.5	65.4	64.7	64.3				
15	20:00 to 21:00	62.5	63.5	62.8	62.9	61.3	60.5				
16	21:00 to 22:00	63.4	63.1	61.7	60.8	58.6	59.2				
	Day Time			<75 d	B (A)						



MotPh(X Sering Environmental Laboratory under The EPA, 1986; (0X.04.3025 to 29.03.2028)

NAME ORIGINAL STORYS SOLETY ACCORDING Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

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INC 9003 2015 | ISC 45002 2018 Cartified

Lo	cation Name	ame ADANI PORT – TUG Berth 600 KL Pump House								
Sr.	Sampling Date	Noise Level Leq. dB(A) - Night Time								
No.	and Time	10-10-2024	11-11-2024	09-12-2024	09-01-2025	10-02-2025	10-03-2025			
1	22:00 to 23:00	60.1	61.3	62.7	61.4	60.9	58.7			
2	23:00 to 24:00	63.2	63.5	64.3	62.8	61.4	60.4			
3	24:00 to 01:00	62.3	64.5	63.5	63.4	62.4	61.8			
4	01:00 to 02:00	64.7	65.2	63.2	64.5	62.7	63.4			
5	02:00 to 03:00	64.1	63.8	65.1	63.2	64.1	64.1			
6	03:00 to 04:00	62.7	62.6	64.3	65.1	64.3	62.4			
7	04:00 to 05:00	63.4	64.1	63.2	62.3	62.7	61.8			
8	05:00 to 06:00	60.2	62.4	61.6	62.4	61.5	58.7			
Day Time <70 dB (A)										

Test Method	IS: 9989 : 1981
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Rajnish D. Gohil (Chemist)

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NAME ORIGINAL STREET STREET ACCOUNTS Teniong Laboratory (TC-13:345) (22.01.2023 to 22.09.2024)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

	Results of Noise Level Monitoring											
Lo	cation Name	PUB/Adani House										
Sr.	Sampling Date	Noise Level Leq. dB(A) - Day Time										
No.	and Time	03-10-2024	04-11-2024	02-12-2024	02-01-2025	03-02-2025	03-03-2025					
1	06:00 to 07:00	63.2	62.7	62.2	63.5	63.9	61.4					
2	07:00 to 08:00	60.7	61.4	62.8	64.2	63.4	64.3					
3	08:00 to 09:00	59.4	58.4	64.7	65.5	64.7	63.8					
4	09:00 to 10:00	61.3	61.8	62.8	64.1	65.1	65.1					
5	10:00 to 11:00	65.4	64.7	66.3	64.8	64.8	64.3					
6	11:00 to 12:00	64.8	65.3	63.6	65.7	67.3	66.3					
7	12:00 to 13:00	67.4	67.3	65.8	66.2	65.4	67.2					
8	13:00 to 14:00	64.3	65.8	66.2	65.8	64.7	65.8					
9	14:00 to 15:00	62.5	62.3	67.5	64.7	63.4	64.5					
10	15:00 to 16:00	64.8	62.4	64.3	67.4	65.2	65.8					
11	16:00 to 17:00	65.5	64.8	63.7	65.9	66.4	67.1					
12	17:00 to 18:00	64.1	63.7	65.1	66.3	65.8	62.3					
13	18:00 to 19:00	61.3	61.6	62.4	64.5	66.1	64.7					
14	19:00 to 20:00	64.6	63.2	64.1	62.8	64.3	65.2					
15	20:00 to 21:00	63.3	62.8	62.3	60.4	62.5	62.5					
16	21:00 to 22:00	60.3	60.6	59.8	60.2	58.7	58.7					
	Day Time			<75 (iB (A)							



NAME ORIGINAL STORYS SOLETY ACCORDING Teniong Laboratory (TC-15345) (22.0), JOSS to 22.00.2024)

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INC 9003 2015 | ISC 45002 2018 Cartified

Lo	cation Name	PUB/Adani House						
Sr.	Sampling Date	Noise Level Leq. dB(A) - Night Time						
No.	and Time	03-10-2024	04-11-2024	02-12-2024	02-01-2025	03-02-2025	03-03-2025	
1	22:00 to 23:00	60.3	60.7	63.2	61.8	61.2	59.8	
2	23:00 to 24:00	62.3	63.4	61.8	61.4	62.7	61.3	
3	24:00 to 01:00	64.3	63.7	62.4	64.3	63.5	61.5	
4	01:00 to 02:00	63.2	64.1	63.7	62.8	64.8	64.2	
5	02:00 to 03:00	62.8	65.4	62.5	63.5	62.3	63.7	
6	03:00 to 04:00	60.4	63.2	64.7	63.2	62.6	61.3	
7	04:00 to 05:00	62.3	62.9	63.1	62.7	61.8	59.7	
8	05:00 to 06:00	60.6	59.7	61.3	60.4	59.5	58.8	
Day Time <70 dB (A)								

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Test Method	IS: 9989 : 1981

Rajnish D. Gohil (Chemist)





NAME ORIGINAL STREET STREET ACCOUNTS Teniong Laboratory (TC-13:345) (22.01.2023 to 22.09.2024)

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INCH STORY . INCH 4500X: JULIE CAVERAGE

Results of Noise Level Monitoring											
Lo	ocation Name	CT-4 RMU-2									
Sr.	Sampling Date	Noise Level Leq. dB(A) - Day Time									
No.	and Time	19-10-2024	26-11-2024	21-12-2024	21-01-2025	22-02-2025					
1	06:00 to 07:00	62.3	62.6	64.1	63.8	63.2					
2	07:00 to 08:00	64.5	61.9	64.3	65.4	66.2					
3	08:00 to 09:00	65.4	63.5	62.8	66.8	64.8					
4	09:00 to 10:00	66.1	64.8	65.6	64.8	65.7					
5	10:00 to 11:00	64.7	67.5	67.8	65.2	67.4					
6	11:00 to 12:00	65.6	67.3	65.4	67.8	67.2					
7	12:00 to 13:00	66.2	68.4	67.5	67.2	65.4					
8	13:00 to 14:00	67.2	64.2	66.9	66.4	65.7					
9	14:00 to 15:00	65.4	65.7	64.3	65.8	63.4					
10	15:00 to 16:00	66.9	68.4	66.9	65.7	65.1					
11	16:00 to 17:00	65.4	66.7	65.2	67.3	66.8					
12	17:00 to 18:00	66.2	64.3	66.4	65.9	66.2					
13	18:00 to 19:00	64.3	65.8	67.8	65.2	63.5					
14	19:00 to 20:00	64.7	62.6	64.3	63.5	64.5					
15	20:00 to 21:00	63.5	65.3	62.8	64.1	63.4					
16	21:00 to 22:00	63.1	62.9	63.1	61.5	62.6					
	Day Time			<75 dB (A)							



MotPh(X Sering Environmental Laboratory under The EPA, 1986; (0X.04.3025 to 29.03.2028)

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Lo	cation Name	CT-4 RMU-2							
Sr.	Sampling Date	Noise Level Leq. dB(A) - Night Time							
No.	and Time	19-10-2024	26-11-2024	21-12-2024	21-01-2025	22-02-2025			
1	22:00 to 23:00	62.3	61.9	61.3	62.5	61.8			
2	23:00 to 24:00	63.5	64.2	63.2	62.4	63.6			
3	24:00 to 01:00	66.4	64.8	61.8	63.7	64.7			
4	01:00 to 02:00	64.3	65.1	64.7	62.5	63.2			
5	02:00 to 03:00	65.8	63.8	62.7	64.5	62.8			
6	03:00 to 04:00	64.3	62.7	63.5	63.1	63.5			
7	04:00 to 05:00	62.1	63.4	61.3	60.8	61.5			
8	05:00 to 06:00	61.5	61.5	60.4	61.4	61.1			
Day Time <70 dB (A)									

	Test Method	IS: 9989 : 1981
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Rajnish D. Gohil (Chemist)



NAME ORIGINAL STREET STREET ACCOUNTS Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

DEP-RABET ASSESSMENT DA & DW Consultant Organization

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INCH STORY . INCH 4500X: JULIE CAVERAGE

	Results of Stack Monitoring									
Sr. No.	Parameter	Unit	Hot Water System-1 (Liquid Terminal)	Hot Water System-2 (Liquid Terminal)	Thermic Fluid Heater (Bitumin-1)	Thermic Fluid Heater (Bitumin-2)	GPCB LIMIT	Method of Test		
			-	Oct-24						
1	Particulate Matter	mg/Nm³	22.15	21.39	22.17	20.19	150	IS 11255 (Part - 1)		
2	Sulphur Dioxide as SO ₂	ppm	7.81	7.37	8.29	7.61	100	IS 11255 (Part - 2)		
3	Oxides of Nitrogen as NO _X	ppm	21.12	22.81	20.41	18.85	50	IS 11255 (Part - 7)		
				Nov-24						
1	Particulate Matter	mg/Nm³	21.96	20.79	21.84	19.11	150	IS 11255 (Part - 1)		
2	Sulphur Dioxide as SO2	ppm	7.26	6.89	8.15	7.45	100	IS 11255 (Part - 2)		
3	Oxides of Nitrogen as NOX	ppm	20.85	21.74	19.17	18.97	50	IS 11255 (Part - 7)		
				Dec-24						
1	Particulate Matter	mg/Nm³	21.28	21.54	22.48	18.86	150	IS 11255 (Part - 1)		
2	Sulphur Dioxide as SO₂	ppm	7.00	6.73	8.09	7.13	100	IS 11255 (Part - 2)		
3	Oxides of Nitrogen as NOx	ppm	19.94	20.96	19.26	19.21	50	IS 11255 (Part - 7)		
				Jan-25						
1	Particulate Matter	mg/Nm³	20.85	22.19	21.11	19.10	150	IS 11255 (Part - 1)		
2	Sulphur Dioxide as SO ₂	ppm	6.90	6.81	7.95	7.36	100	IS 11255 (Part - 2)		
3	Oxides of Nitrogen as NO _x	ppm	18.79	21.07	19.28	19.13	50	IS 11255 (Part - 7)		



MotPh(1) Borng Environmental Laboratory under The EPA, 1965 (02.04.3025 to 29.03.2028)

NAME ORIGINAL STORYS SOLETY ACCORDING Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3026)

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INC 9003 2015 | ISC 45002 2018 Cartified

Sr. No.	Parameter	Unit	Hot Water System-1 (Liquid Terminal)	Hot Water System-2 (Liquid Terminal)	Thermic Fluid Heater (Bitumin-1)	Thermic Fluid Heater (Bitumin-2)	GPCB LIMIT	Method of Test
				Feb-25				
1	Particulate Matter	mg/Nm³	21.63	19.83	20.96	19.83	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.13	6.15	7.64	7.59	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	19.24	20.18	18.95	20.18	50	IS 11255 (Part - 7)
				Mar-25				
1	Particulate Matter	mg/Nm³	21.19	20.23	20.13	19.25	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.42	6.57	8.11	7.41	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _X	ppm	20.61	21.14	19.39	20.48	50	IS 11255 (Part - 7)

Rajnish D. Gohil (Chemist)

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NAME ORIGINAL STREET STREET ACCOUNTS Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

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Results of Stack Monitoring								
Sr. No	Parameter	Unit	D.G. Set-6, 7 & 8 (1250 KVA - CT2) Common Stack	D.G. Set-9 (1500 KVA - CT3)	D.G. Set-10 (1500 KVA - CT3)	D.G. Set-11 (1500 KVA - CT3)	GPC B LIMI	Method of Test
				Mar-25				
			19-03-2025	17-03-2025	17-03-2025	17-03-2025	Т	
1	Particulate Matter	mg/Nm³	27.15	19.31	22.53	20.36	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	11.32	15.69	16.11	15.72	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NOx	ppm	23.58	27.32	29.63	24.91	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	4.19	4.1	3.6	3.5		UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected		UERL/AIR/SOP/27
Sr. No	Parameter	Unit	D.G. Set-12 (1500 KVA) - CT4	D.G. Set-13 (1500 KVA) - CT4	D.G. Set-14 (1500 KVA) - CT4	D.G. Set-1 (500 KVA) - DG House - MPT	GPC B	Method of Test
•			Mar-25				LIMI	
			18-03-2025	18-03-2025	18-03-2025	19-03-2025	Т	
1	Particulate Matter	mg/Nm³	23.81	29.14	21.95	25.26	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	9.42	10.67	9.65	9.7	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NOx	ppm	21.38	25.3	19.47	31.13	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	3.8	4.88	4.2	3.47		UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected		UERL/AIR/SOP/27



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MotPh(X Sering Environmental Laboratory under The EPA, 1986; (0X.04.3025 to 29.03.2028)

NAME ORIGINAL STREET STREET, ACCOMMISSION Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3026)

CICH NAMET ASSESSMENT DA N. OW. Consultant Organisation

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INC 9003 2015 | ISC 45002 2018 Cartified Environmental Auditor (Sch-II) Certified Company CHI, Management System

Sr. No	Parameter Unit		D.G. Set-2 (500 KVA) - DG House - MPT	D.G. Set-3 (500 KVA) - DG House - MPT	D.G. Set-4 (500 KVA) - DG House - MPT	D.G. Set-5 (500 KVA) - DG House - MPT	GPC B LIMI	Method of Test
•			Mar-25					
			19-03-2025	26-03-2025	26-03-2025	26-03-2025	ı	
1	Particulate Matter	mg/Nm³	28.53	23.96	28.15	22.46	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	8.42	10.16	9.37	9.68	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	34.07	29.74	32.12	29.21	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	3.97	4.77	4.64	3.85		UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected		UERL/AIR/SOP/27

Rajnish D. Gohil (Chemist)



Abstracts and The EPA, 1986 (03.04.302) to 29.03.2028)

NAME OROUGH & PROPER DO NOT ACCOMPDISE Ten/org Laboratory (TC-13:365) (33:06:3025 to 23:06:3026)

DEP-NAMET ANY AND ROBBERT DAY & GOV Consultant Organisation

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INC 9003 2015 | ISC 45002 2018 Cartified

RESULTS OF BORE HOLE WATER

SR.NO.	TEST PARAMETERS	UNIT	Pump House-1 05-03-2025	Pump House-2 05-03-2025	Pump House-3 05-03-2025	Near Unloading bays 05-03-2025	Near ETP 05-03-2025	TEST METHOD
1.	pH @ 25 ° C		8.18	7.16	8.22	7.46	8.24	IS 3025(Part 11):2022
2.	Salinity	ppt	3.4	1	1.1	1.2	1.3	APHA 24th Ed.,2023,2520 B
3.	Oil & Grease	mg/L	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	IS 3025(Part 39):2021
4.	Hydrocarbon	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	GC/GCMS
5.	Lead as Pb	mg/L	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	IS 3025 (PART 47) 1994
6.	Arsenic as As	mg/L	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	APHA 24th Ed.,2023,3114-C
7.	Nickel as Ni	mg/L	0.084	0.068	0.079	0.086	0.092	IS 3025 (PART 54) 2003
8.	Total Chromium as Cr	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	IS 3025 (PART 52) 2003
9.	Cadmium as Cd	mg/L	0.038	0.028	0.031	0.026	0.038	IS 3025(PART 41) 1992
10.	Mercury as Hg	mg/L	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	APHA 24th Ed.,2023, 3112-B
11.	Zinc as Zn	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	IS 3025(PART 49) 1994
12.	Copper as Cu	mg/L	0.068	0.062	0.086	0.082	0.111	IS 3025 (PART 42) 1992
13.	Iron as Fe	mg/L	BDL(MDL:0.1)	0.242	0.386	0.588	0.143	IS 3025(PART 53) 2003
14.	Insecticides/Pesticides	μg/L	Absent	Absent	Absent	Absent	Absent	USEPA 8081 B
15.	Depth of Water Level from Ground Level	meter	1.9	2.1	2.1	2.2	2.1	

Best 1

Mr. Nilesh Patel Sr. Chemist

GUJJARAT

Mr. Nitin Tandel **Technical Manager**

Sulphur Dioxide SOX

Oxides of Nitrogen NOX

Mostfield Recog Environmental Laboratory under The EPA, 1965 (0X.04.3025 to 29.09.2028)

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NAME ORIGINAL STREET STREET ACCOUNTS Teniong Laboratory (TC-13:345) (22.0), 2023 to 22.00.2024)

DEP RABET ASSESSMENT DA & DW Consultant Organisation

SPCS Recognized Environmental Auditor (Sch-II) Certified Company CHI, Management System

mg/Nm3

mg/Nm3

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INC 9003 2015 | ISC 45002 2018 Cartified

Minimum Detection Limit							
Ambient Air Quality Monitoring							
Sr. No.	Test Parameter	Unit	MDL				
1	Particulate Matter (PM10)	μg/m3	5 μg/m3				
2	Particulate Matter (PM2.5)	μg/m3	5 μg/m3				
3	Sulphur Dioxide (SO2)	μg/m3	4 μg/m3				
4	Nitrogen Dioxide (NO2)	μg/m3	5 μg/m3				
5	Carbon Monoxide (CO)	mg/m3	0.01 mg/m3				
6	Ammonia (NH3)	μg/m3	5 μg/m3				
7	Ozone (O3)	μg/m3	5 μg/m3				
8	Lead (Pb)	μg/m3	0.5 μg/m3				
9	Nickle (Ni)	ng/m3	1 ng/m3				
10	Arsenic (As)	ng/m3	1 ng/m3				
11	Benzene	μg/m3	1μg/m3				
12	Benzo(o)Pyrene	ng/m3	0.1 ng/m3				
14	Hydro Carbon	μg/m3	1 μg/m3				
Stack Emission Monitoring							
Sr. No.	Test Parameter	Unit	MDL				
1	Suspended particulate matter	mg/Nm3	2 mg/Nm3				

ETP Water

4 mg/Nm3

5 mg/Nm3



NAME ORIGINAL STREET STREET ACCOUNTS Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

DEP-RABET ASSESSMENT DA & DW Consultant Organisation

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INC 9003 2015 | ISC 45002 2018 Cartified

Sr. No.	Test Parameter	Unit	MDL
1	Colour	Pt. Co. Scale	5
2	pH @ 27 ° C		2
3	Temperature	0C	5
4	Total Suspended Solids	mg/L	4
5	Total Dissolved Solids	mg/L	4
6	COD	mg/L	2
7	BOD (3 days at 27 0C)	mg/L	1
8	Chloride (as Cl) -	mg/L	1
9	Oil & Grease	mg/L	4
10	Sulphate (as SO4)	mg/L	1
11	Ammonical Nitrogen	mg/L	5
12	Phenolic Compound	mg/L	0.1
13	Copper as Cu	mg/L	0.05
14	Lead as Pb	mg/L	0.01
15	Sulphide as S	mg/L	0.05
16	Cadmium as Cd	mg/L	0.003
17	Fluoride as F	mg/L	0.2
18	Residual Chlorine	mg/L	0.1
19	Percent Sodium	%	
20	Sodium Absorption ratio		



Motificit Second Environmental Laboratory under The EPA, 1966 (02.04.3025 to 29.03.2028)

NAME ORIGINAL STREET STREET ACCOUNTS Tenting Laboratory (TC-15.945) (22.01.2023 to 22.00.2024)

DEP-NAMET ASSESSMENT DATE ON Consultant Organisation

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IND 9003 2015 IND 45002 2018 CHIEFMAN

	MARINE WATER		
Sr. No.	Test Parameter	Unit	MDL
1	рН		5
2	Temperature	оС	5
3	Total Suspended Solids	mg/L	4
4	BOD (3 Days @ 27oC)	mg/L	1
5	Dissolved Oxygen	mg/L	0.2
6	Salinity	ppt	0.01
7	Oil & Grease	mg/L	2
8	Nitrate as NO ₃	μmol/L	0.4
9	Nitrite as NO ₂	μmol/L	0.04
10	Ammonical Nitrogen as NH₃	μmol/L	0.8
11	Phosphates as PO ₄	μmol/L	0.4
12	Total Nitrogen	μmol/L	2.2
13	Petroleum Hydrocarbon	μg/L	0.1
14	Total Dissolved Solids	mg/L	4
15	COD	mg/L	2



Motificit Second Environmental Laboratory under The EPA, 1966 (02.04.3025 to 29.03.2028)

NAME ORIGINAL STREET STREET ACCOUNTS Ten/org Laboratory (TC-15345) (22.01.2025 to 22.00.2026)

DEP-NAMET ASSESSMENT DATE ON Consultant Organisation

UPCS herogeness Environmental Auditor (Sch. II) Certified Company CHI, Wanagement System

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INCH STORY . INCH 4500X: JULIE CAVERAGE

	Sea SEDIMENT		
Sr. No.	Test Parameter	Unit	MDL
1	Organic Matter	%	0.5
2	Phosphorus as P	μg/g	1
3	Texture		
4	Petroleum Hydrocarbon	μg/g	0.1
5	Aluminum as Al	%	0.1
6	Total Chromium as Cr+3	μg/g	2
7	Manganese as Mn	μg/g	1
8	Iron as Fe	%	0.1
9	Nickel as Ni	μg/g	1
10	Copper as Cu	μg/g	1
11	Zinc as Zn	μg/g	1
12	Lead as Pb	μg/g	1
13	Mercury as Hg	μg/g	0.05



Motificit Second Environmental Laboratory under The EPA, 1966 (02.04.3025 to 29.03.2028)

NAME ORIGINAL STREET STREET ACCOUNTS Tenting Laboratory (TC-15.945) (22.01.2023 to 22.00.2024)

DEP-MARKET ACCOMMISSION DIA N. GW Consultant Organisation

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INCH STORY . INCH 4500X: JULIE CAVERAGE

	BORE HOLE WATER		
Sr. No.	Test Parameter	Unit	MDL
1	pH @ 25 ° C		5
2	Salinity	ppt	
3	Oil & Grease	mg/L	2
4	Hydrocarbon	mg/L	0.1
5	Lead as Pb	mg/L	0.01
6	Arsenic as As	mg/L	0.01
7	Nickel as Ni	mg/L	0.02
8	Total Chromium as Cr	mg/L	0.05
9	Cadmium as Cd	mg/L	0.003
10	Mercury as Hg	mg/L	0.001
11	Zinc as Zn	mg/L	0.05
12	Copper as Cu	mg/L	0.05
13	Iron as Fe	mg/L	0.1
14	Insecticides/Pesticides	μg/L	0.1
15	Depth of Water Level from Ground Level	meter	

adani

FINAL REPORT

PIPELINE INSPECTION AND CATHODIC PROTECTION SURVEYS OF 48" OFFSHORE PIPELINE OFF MUNDRA, GUIARAT, INDIA FOR ADARE PORTS AND SPECIAL ECONOMIC. ZONE LIMITED



PIPELINE INSPECTION AND CATHODIC PROTECTION
SURVEYS OF 48" OFFSHORE PIPELINE
AND SITE SURVEY AT SPM LOCATION,
OFF MUNDRA, GUIARAT STATE
WEST COAST OF INDIA

FOR

ADANI PORTS AND SPECIAL ECONOMIC ZONE LIMITED
(APSEZL)

FINAL REPORT

ON

PIPELINE INSPECTION AND CP SURVEYS

Volume I: Pipeline Inspection and CP Surveys (Offshore Section between LFP & PLEM)



GSIPL DOCUMENT No. GSIPL_3016_2024_FinRep(Rev.0)

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	To the owner of		19/22	4/	floh		
0	18/03/2024	Final Report	RAL	146	PPK	AN AUTOTO	
REV	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	APPROVAL	

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FINAL REPORT PIPELINE INSPECTION AND CATHODIC PROTECTION SURVEYS OF 48" OFFSHORE PIPELINE OFF MUNDRA, GUIARAT, INDIA FOR ADAM PORTS AND SPECIAL ECONOMIC ZONE LIMITED.



Apart from the above, no other features of significance/items of debris were recorded within the survey corridor, which could be hazardous to the existing 46" pipeline route.

1.3 SUB-BOTTOM PROFILER SURVEY

Sub-bottom profiler (pinger) was run across the existing 48" pipeline at 200 meters intervals between KP velocity of propagation of acoustic wave sub-seabed was assumed to be 1600 m/sec for converting twoway-travel time to depth. Pipeline was identified on the survey records with its characteristic hyperbola.

Pipeline's Outer Diameter is assumed as 1.2 meters. Details of the pipeline KP, location co-ordinates and it's status with respect to the ambient seabed are given in the Table 11.

Apart from the above, no other features of significance/items of debris were recorded within the survey consider, which could be hazardous to the existing 48" pipeline route.

L4 COMPARISON OF FREESPANS BETWEEN FEB' 2024 AND FEB' 2023 SURVEYS

The present survey (February 2024) results are compared with the previous survey results during February 2023 carried out by Geostar and following observations are made:

- In general, the horizontal position of the existing 48" pipeline from the present survey are in line with the previous survey and the co-ordinates are matching well.
- Total number of free spans during surveys in (February 2023) were 24 and during the present survey (February 2024) are 24.
- Maximum length of the free span during surveys in Feb' 2023 was 55.3 meters and during the present survey (Feb' 2024) is 52.8 meters.
- It is also observed that considerable amount of deposition and erosion took place between the surveys during Feb' 2023 and Feb' 2024 due to observations below:
 - a) Two free spans during surveys in Feb' 2023 are splitted into four freespans and the heights
 of the freespans are also decreased.
 - b) New freespans were not detected during present surveys which attributes to depositional phase between the surveys.
 - c) Two free spans from previous survey (Feb' 2023) were not detected in the present survey.
 - d) In general, lengths and heights of the free spans also observed to be decreased.

1.5 CATHODIC PROTECTION SURVEY (OFFSHORE & LAND)

CP Survey (Near Shore Bund to PLEM/SPM)

The survey was carried out by implementing Close Interval Potential Logging (CIPL) using Ag-AgCl Reference Cell.

The surveys conducted yield the following observations:

Based on CIPS graphs, Pipe-to-Soil potentials values are satisfactory.

Onshore CP Survey (LFP TLP and near shore (Bund))

The CIPL Surveys were carried out between LFP TLP and near shore (Bund) by implementing Onshore CIP method.

Hence, it is concluded that the pipeline is Cathodically Protected. Refer Appendix 'F' for CP Survey Results.





PIPE - TO - SOIL MONITORING REPORT

MAINTENANCE BASE: MUNDRA

PIPELINE SECTION: 48" X 6.2 KM SPM-IOCL CRUDE OIL PIPELINE AT ADANI PORTS, MUNDRA

CP STATION LOCATION: TP2

CP SYSTEM PARAMETERS : DC Voltage = 3.90 VOLTS; DC Current = 2.30 AMP

DATE: 26.10.2024

REPORT NO: October24/30

DATE OF MONITORING: 26.10.2024

TID NO	TLP NO. Type Chainage	ON PSP	OFF PSP	AC	Casing (-V w.r.t CSE)				Polarization coupon (-V w.r.t CSE)		HT Cro	Crossing Foreign		Isolating Joint (-V w.r.t CSE)		- Remarks	
ILP NO.	туре	KM	(-volt)	(-volt)	-volt) VOLTAGE	Carrier PSP	Casing PSP	Casing Anode Potential (-V)	Casing Anode Current (mA)	ON PSP	OFF PSP	ZN Anode Potential (-V)	ZN Anode Resistance	pipeline PSP (- V w.r.t CSE)	Protected side PSP	Unprotected side PSP	Kemarks
1	Е	0.000	1.258	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	D	0.425	1.254	-	0.019	0.648	1.254	NA	NA	-	-	-	-	-	-	-	
3	Α	1.400	1.250	-	0.015	-	-	-	-	-	-	-	-	-	-	-	
4	Α	2.400	1.247	-	0.009	-	-	-	-	-	-	-	-	-	-	-	
5	Α	3.000	1.217	-	0.000	-	-	-	-	-	-	-	-	-	-	-	
6	D	3.440	1.246	-	0.000	0.541	1.246	NA	NA	-	-	-	-	-	-	-	
7	Α	4.300	1.128	-	0.008	-	-	-	-	-	-	-	-	-	-	-	
8	Α	5.200	1.161	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	Α	5.900	1.225	-	0.011	-	-	-	-	-	-	-	-	-	-	-	
10	E	6.200	1.291	-	0.028	-	-	-	-	-	-	-	-	-	1.291	0.872	
Remarks	;:																

Reviewed by:

Signature

Name:

Disignation:

Monitored by : SAP	ENPROCON PVT	LTD

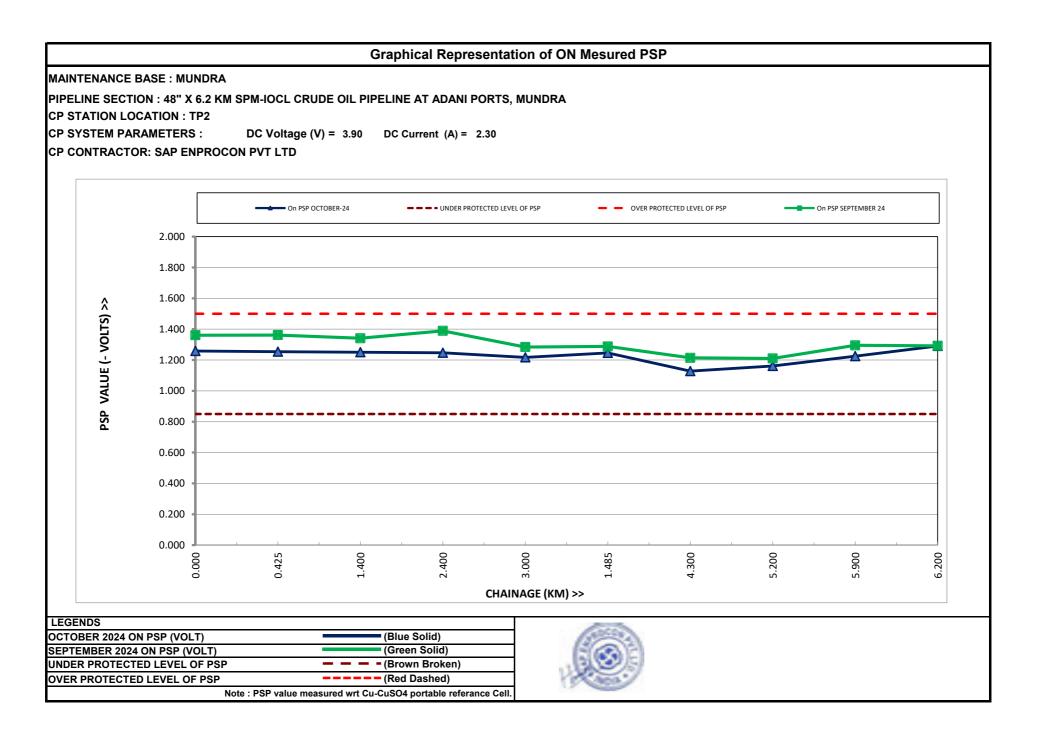
Signature:

Name: Harsh Vardhan Singh

Designation : CP Engineer

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PIPE - TO - SOIL MONITORING REPORT

MAINTENANCE BASE: MUNDRA

PIPELINE SECTION: 48" X 6.2 KM SPM-IOCL CRUDE OIL PIPELINE AT ADANI PORTS, MUNDRA

CP STATION LOCATION: TP2

CP SYSTEM PARAMETERS: DC Voltage = 3.70 VOLTS; DC Current = 2.20 AMP

DATE: 30.11.2024

REPORT NO: NOVEMBER24/31

DATE OF MONITORING: 30.11.2024

TLP NO.	Туре	Chainage KM	ON PSP (-volt)	OFF PSP	AC	Casing (-V w.r.t CSE)				Polarization coupon (-V w.r.t CSE)		HT Crossing		Foreign pipeline PSP (-	Isolating Joint (-V w.r.t CSE)		Remarks
TEP NO.	туре			(-volt)	VOLTAGE	Carrier PSP	Casing PSP	Casing Anode Potential (-V)	Casing Anode Current (mA)	ON PSP	OFF PSP	ZN Anode Potential (-V)	ZN Anode Resistance	V w.r.t CSE)	Protected side PSP	Unprotected side PSP	Remarks
1	Е	0.000	1.288	-	0.027	-	-	-	-	-	-	-	-	-	1.288	0.958	
2	D	0.425	1.318	-	0.027	0.644	1.318	NA	NA	-	-	-	-	-	-	-	
3	Α	1.400	1.278	-	0.020	-	-	-	-	-	-	-	-	-	-	-	
4	Α	2.400	1.263	-	0.011	-	-	-	-	-	-	-	-	-	-	-	
5	Α	3.000	1.253	-	0.001	-	-	-	-	-	-	-	-	-	-	-	
6	D	3.440	1.203	-	0.001	0.370	1.203	NA	NA	-	-	-	-	-	-	-	
7	Α	4.300	1.143	-	0.011	-	-	-	-	-	-	-	-	-	-	-	
8	Α	5.200	1.150	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	Α	5.900	1.167	-	0.019	-	-	-	-	-	-	-	-	-	-	-	
10	Е	6.200	1.185	-	0.021	-	-	-	-	-	-	-	-	-	1.185	0.814	
Remarks	; :		ı		L		L	1	L					•			

Monitored by : SAP	ENPROCON PVT LTD

Signature:

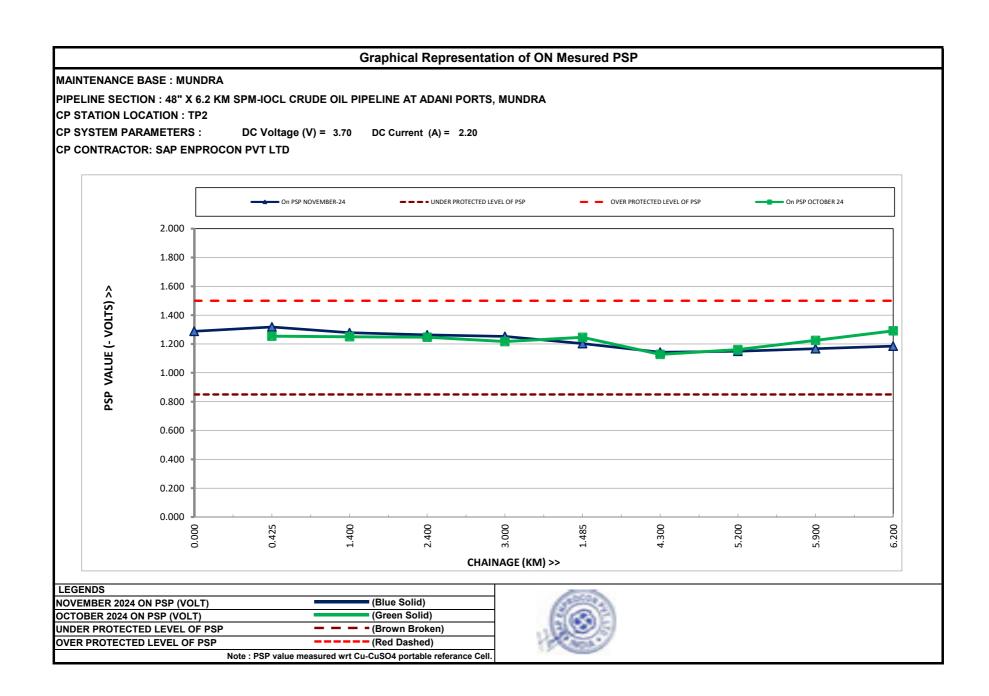
Name: Harsh Vardhan Singh

Designation: CP Engineer

Reviewed by :
Signature

Disignation:

Name:







PIPE - TO - SOIL MONITORING REPORT

MAINTENANCE BASE : MUNDRA

PIPELINE SECTION: 48" X 6.2 KM SPM-IOCL CRUDE OIL PIPELINE AT ADANI PORTS, MUNDRA

CP STATION LOCATION: TP2

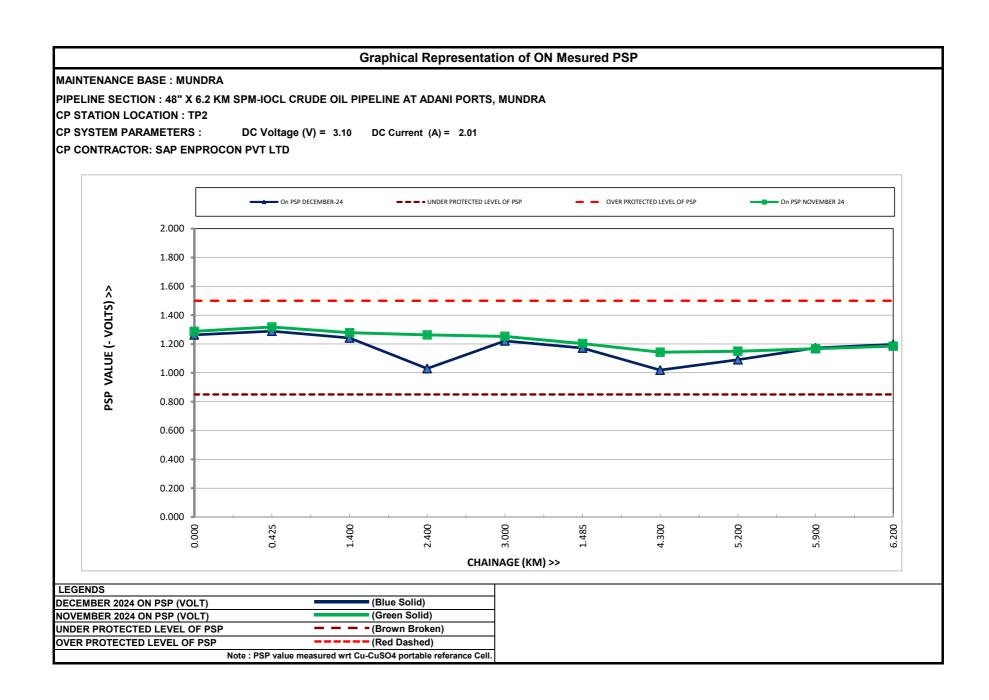
CP SYSTEM PARAMETERS : DC Voltage = 3.10 VOLTS; DC Current = 2.01 AMP

DATE: 31.12.2024

REPORT NO : DECEMBER24/32
DATE OF MONITORING :31.12.2024

TI D NO	TLP NO. Type Chainage ON	ON PSP	OFF PSP	AC		Ca	asing (-V w.r.t CSE)		Polarization coupon (-V w.r.t CSE)		HT Crossing		Foreign	Isolating Joint (-V w.r.t CSE)		Remarks	
	туре	KM	(-volt)	(-volt)	VOLTAGE	Carrier PSP	Casing PSP	Casing Anode Potential (-V)	Casing Anode Current (mA)	ON PSP	OFF PSP	ZN Anode Potential (-V)	ZN Anode Resistance	pipeline PSP (- V w.r.t CSE)	Protected side PSP	Unprotected side PSP	Nemarks
1	E	0.000	1.263	-	0.027	-	-	-	-	-	-	-	-	-	1.263	0.810	
2	D	0.425	1.289	-	0.025	0.431	1.289	NA	NA	-	-	-	-	-	-	-	
3	Α	1.400	1.242	-	0.022	-	-	-	-	-	-	-	-	-	-	-	
4	Α	2.400	1.030	-	0.014	-	-	-	-	-	-	-	-	-	-	-	
5	Α	3.000	1.222	-	0.020	-	-	-	-	-	-	-	-	-	-	-	
6	D	3.440	1.172	-	0.020	0.351	1.172	NA	NA	-	-	-	-	-	-	-	
7	Α	4.300	1.019	-	0.060	-	-	-	-	-	-	-	-	-	-	-	
8	Α	5.200	1.091	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	Α	5.900	1.173	-	0.010	-	-	-	-	-	-	-	-	-	-	-	
10	E	6.200	1.198	-	0.032	-	-	-	-	-	-	-	-	-	1.198	0.840	
Remarks	:	I		I	I	I	I	<u> </u>	L		1	L					

lonitored by : SAP ENPROCON PVT LTD	Reviewed by :
gnature:	Signature
ame : Brijesh Panchal	Name :
esignation : CP Engineer	Disignation :







PIPE - TO - SOIL MONITORING REPORT

MAINTENANCE BASE : MUNDRA

PIPELINE SECTION: 48" X 6.2 KM SPM-IOCL CRUDE OIL PIPELINE AT ADANI PORTS, MUNDRA

CP STATION LOCATION: TP2

CP SYSTEM PARAMETERS : DC Voltage = 4.50 VOLTS; DC Current = 3.10 AMP

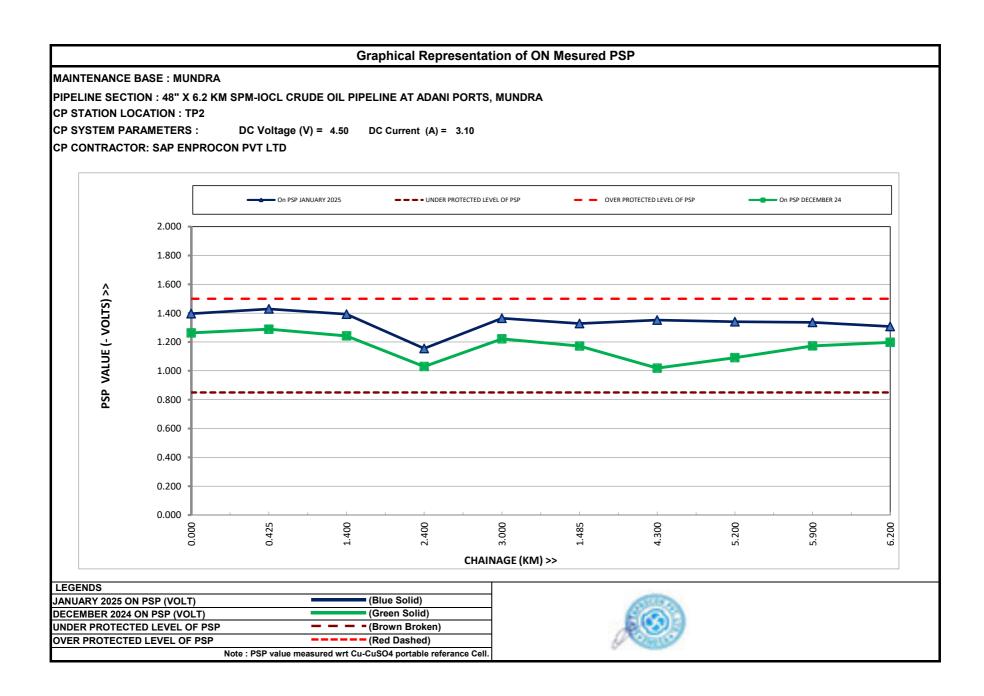
DATE: 28.01.2025

REPORT NO: JANUARY25/33

DATE OF MONITORING: 28.01.2025

TLP NO.	Туре	Chainage	ON PSP	OFF PSP	AC	Casing (-V w.r.t CSE)			Polarization coupon (-V w.r.t CSE) HT Crossing		Foreign pipeline PSP (-	Isolating Joint (-V w.r.t CSE)		- Remarks			
TLP NO.	туре	KM	(-volt)	(-volt)	VOLTAGE	Carrier PSP	Casing PSP	Casing Anode Potential (-V)	Casing Anode Current (mA)	ON PSP	OFF PSP	ZN Anode Potential (-V)	ZN Anode Resistance	V w.r.t CSE)	Protected side PSP	Unprotected side PSP	Kemarks
1	E	0.000	1.397	-	0.028	-	-	-	-	-	-	-	-	-	1.397	1.092	
2	D	0.425	1.429	-	0.027	1.425	0.695	NA	NA	-	-	-	-	-	-	-	
3	Α	1.400	1.393	-	0.026	-	-	-	-	-	-	-	-	-	-	-	
4	Α	2.400	1.155	-	0.010	-	-	-	-	-	-	-	-	-	-	-	
5	Α	3.000	1.365	-	0.002	-	-	-	-	-	-	-	-	-	-	-	
6	D	3.440	1.328	-	0.001	1.328	0.692	NA	NA	-	-	-	-	-	-	-	
7	Α	4.300	1.352	-	0.007	-	-	-	-	-	-	-	-	-	-	-	
8	Α	5.200	1.341	-	0.100	-	-	-	-	-	-	-	-	-	-	-	
9	Α	5.900	1.336	-	0.013	-	-	-	-	-	-	-	-	-	-	-	
10	E	6.200	1.308	-	0.021	-	-	-	-	-	-	-	-	-	1.308	0.928	

cinuro.	
lonitored by : SAP ENPROCON PVT LTD	Reviewed by :
gnature:	Signature
	Name :
esignation : CP Engineer	Disignation :







PIPE - TO - SOIL MONITORING REPORT

MAINTENANCE BASE : MUNDRA

PIPELINE SECTION: 48" X 6.2 KM SPM-IOCL CRUDE OIL PIPELINE AT ADANI PORTS, MUNDRA

CP STATION LOCATION: TP2

CP SYSTEM PARAMETERS : DC Voltage = 4.19 VOLTS; DC Current =3.20 AMP

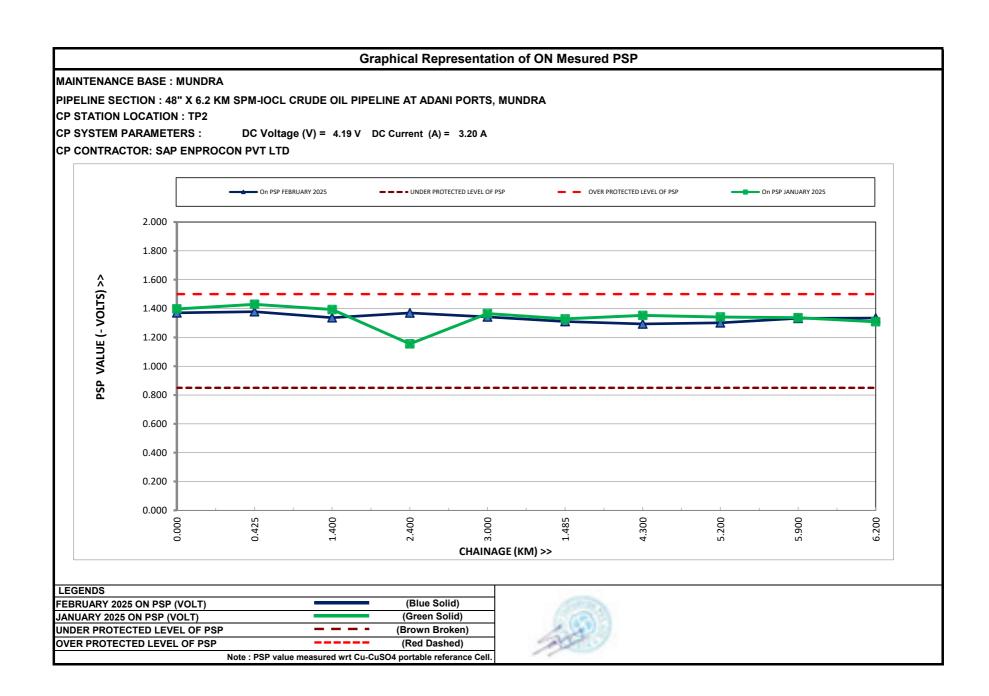
DATE: 20.02.2025

REPORT NO: FEBRUARY25/34

DATE OF MONITORING: 20.02.2025

TLP NO.	Turno	Chainage	ON PSP	OFF PSP	AC		Ca	asing (-V w.r.t CSE)			ntion coupon w.r.t CSE)		Foreign	Isolating Joint (-V w.r.t CSE)		Remarks	
TLP NO.	Type	KM	(-volt)	(-volt)	VOLTAGE	Carrier PSP	Casing PSP	Casing Anode Potential (-V)	Casing Anode Current (mA)	ON PSP	OFF PSP	ZN Anode Potential (-V)	ZN Anode Resistance	pipeline PSP (- V w.r.t CSE)	Protected side PSP	Unprotected side PSP	Remarks
1	Е	0.000	1.370	-	0.028	1	-	-	-	-	-	-	-	-	1.370	1.117	
2	D	0.425	1.378	-	0.027	1.378	0.418	NA	NA	-	-	-	-	-	-	-	
3	Α	1.400	1.336	-	0.020	-	-	-	-	-	-	-	-	-	-	-	
4	Α	2.400	1.369	-	0.012	-	-	-	-	-	-	-	-	-	-	-	
5	Α	3.000	1.342	-	0.002	-	-	-	-	-	-	-	-	-	-	-	
6	D	3.440	1.310	-	0.001	1.310	0.519	NA	NA	-	-	-	-	-	-	-	
7	Α	4.300	1.293	-	0.007	1	-	-	-	-	-	-	-	-	-	-	
8	Α	5.200	1.301	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	Α	5.900	1.332	-	0.016	-	-	-	-	-	-	-	-	-	-	-	
10	E	6.200	1.334	-	0.003	-	-	-	-	-	-	-	-	-	1.334	0.948	

emarks:	
Monitored by : SAP ENPROCON PVT LTD	Reviewed by :
ignature:	Signature
lame :	Name :
esignation : CP Engineer	Disignation :







PIPE - TO - SOIL MONITORING REPORT

MAINTENANCE BASE : MUNDRA

PIPELINE SECTION: 48" X 6.2 KM SPM-IOCL CRUDE OIL PIPELINE AT ADANI PORTS, MUNDRA

CP STATION LOCATION: TP2

CP SYSTEM PARAMETERS : DC Voltage = 3.78 VOLTS; DC Current = 2.45 AMP

DATE: 31.03.2025

REPORT NO: MARCH25/35

DATE OF MONITORING: 31.03.2025

TLP NO.	Туре	Chainage	ON PSP	OFF PSP	AC		Ca	asing (-V w.r.t CSE)		Polarization (-V w.r.	-	HT Cro	ssing	Foreign pipeline PSP (-	Isolating Joint (-V w.r.t CSE)		Remarks
TLP NO.	туре	KM	(-volt)	(-volt)	VOLTAGE	Carrier PSP	Casing PSP	Casing Anode Potential (-V)	Casing Anode Current (mA)	ON PSP	OFF PSP	ZN Anode Potential (-V)	ZN Anode Resistance	V w.r.t CSE)	Protected side PSP	Unprotected side PSP	Kemarks
1	Е	0.000	1.199	-	0.024	-	-	-	-	-	-	-	-	-	1.199	1.019	
2	D	0.425	1.294	-	0.054	1.294	0.756	NA	NA	-	-	-	-	-	-	-	
3	Α	1.400	1.284	-	0.021	-	-	-	-	-	-	-	-	-	-	-	
4	Α	2.400	1.355	-	0.018	-	-	-	-	-	-	-	-	-	-	-	
5	Α	3.000	1.296	-	0.002	-	-	-	-	-	-	-	-	-	-	-	
6	D	3.440	1.311	-	0.002	1.311	0.725	NA	NA	-	-	-	-	-	-	-	
7	Α	4.300	1.288	-	0.009	-	-	-	-	-	-	-	-	-	-	-	
8	Α	5.200	1.329	-	0.069	-	-	-	-	-	-	-	-	-	-	-	
9	Α	5.900	1.285	-	0.021	-	-	-	-	-	-	-	-	-	-	-	
10	E	6.200	1.225	-	0.002	-	-	-	-	-	-	-	-	-	1.225	0.981	
Remarks	;:	1	1						1		1						

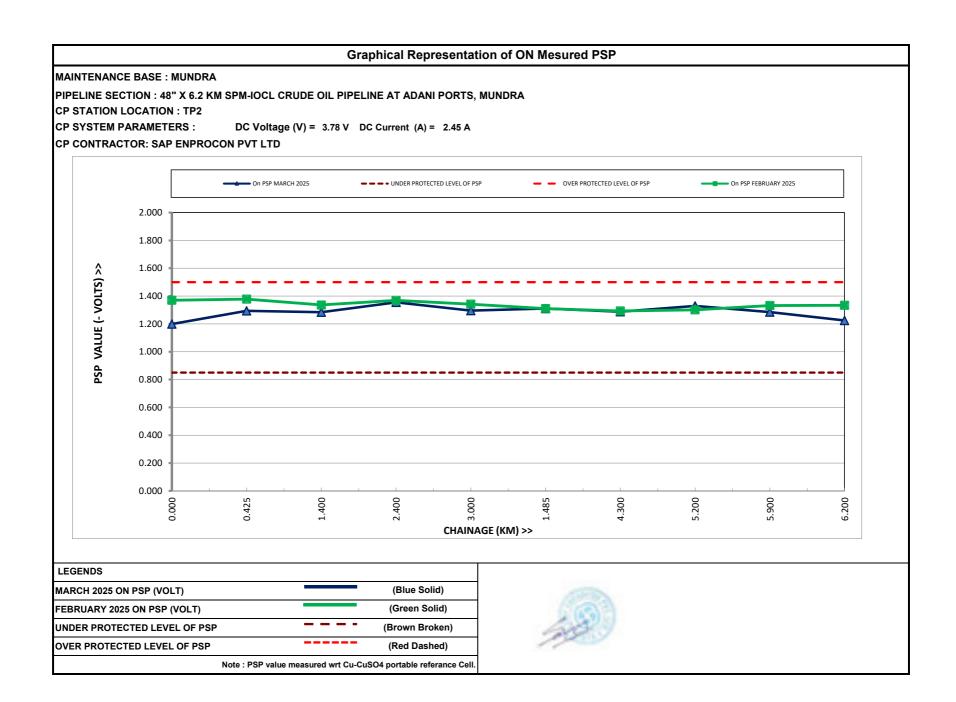
Monitored by : SAP ENPROCON PVT LTD

Reviewed by :
Signature:

Name : Sanjay Panchal

Designation : CP Engineer

Reviewed by :
Disignation :
Disignation :





Cost of Environmental Protection Measures

Sr.	Activity	Cost i	incurred (INR	in Lacs)	Budgeted Cost (INR in Lacs)
No.		2022 – 23	2023 - 24	2024 - 25	2024 - 25
1.	Environmental Study / Audit	7.32	22.67	40.46	27
	and Consultancy				
2.	Legal & Statutory Expenses	12.32	8.60	17.37	13
3.	Environmental Monitoring	15.32	13.37	17.27	19.20
	Services				
4.	Hazardous / Non-Hazardous	104.035	130.11	122.46	172.40
	Waste Management & Disposal				
5.	Environment Days Celebration	2.53	3.42	1.85	4.00
	and Advertisement / Business				
	development				
6.	Treatment and Disposal of Bio-	2.29	2.28	2.39	2.28
	Medical Waste				
7.	Mangrove Plantation,	35.0	15	0	0
	Monitoring & Conservation				
8.	Other Horticulture Expenses	956	904	570	831
9.	O&M of Sewage Treatment	141.33	186.94	164.31	195.41
	Plant and Effluent Treatment				
	Plant (including STP, ETP of Port				
	& SEZ & Common Effluent				
	Treatment Plant)				
10.	Expenditure of Environment	90.136	80.39	93.40	75.92
	Dept. (Apart from above head)				
	Total	1366.28	1366.78	1029.51	1340.21



Compliance Report of CIA Study Environment Management Plan

S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
1	Land Use Chang						
1.1	It is predicted that the built up land in the rural areas would increase by an order 50% from the baseline 2015. New settlements near the SEZ area might create slums. Unorganized urban	Level - 1	APSEZ has developed two townships (Shantivan and Samudra) presently accommodati ng 1668 households. Necessary permissions from concerned authorities were already obtained for the development of townships	The existing townships will be expanded to accommodate about 4 lakh people when the APSEZ is fully developed.	APSEZ	As and when Required	APSEZ has developed two townships (Shantivan and Samudra) accommodating 4677 households and associated infrastructure facilities. Accommodation is made available for all interested employees working within Adani group & SEZ industries. Out of which 93.65 % Occupancies are accommodated within the townships and rest are available for employees working within APSEZ. At present 81 nos. of industries (processing & non-processing) are present within the SEZ (61 nos. are in operation). Township facilities are also made by some of SEZ industries within Mundra town for their employees with basic infrastructure facilities and requirements. Most of the employees working in SEZ industries are residing in Mundra township having all basic
	development leading to poor sanitation and proliferation		and Associated infrastructure facilities.				requirements and associated facilities. The existing social infrastructure facilities are adequate for present development at APSEZ. The existing townships with associated facilities will be



S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
	of vectors and disease.						expanded as per requirement. APSEZ has also been granted permission for receiving domestic sewage @ 2.5 MLD from Mundra village (which was earlier discharged into open area within Mundra region) into wastewater treatment plant for treatment and disposal. APSEZ has already started receiving of domestic sewage from Mundra, which abates the poor sanitation and unhygienic condition within Mundra region. Total project cost for laying domestic sewage underground pipeline with other associated facilities from Mundra to APSEZ is 362 Lacs.
1.2	Once the project is fully developed, due to increase in built up land in the APSEZ area, there will be an increase in the storm water runoff from the facility.	Level-1	The study area experiences scanty rainfall less than 400 mm/year. Considering the natural gradient, ASPEZ have designed and implemented storm water	Technical feasibility study can be carried out to explore the possibility of developing storm water collection ponds to utilize maximum possible storm water runoff for dust suppression in the coal yard areas during non-rainy days.	APSEZ	Technical Study - one time, Implementation - Continual process	Presently, ~ 39 % area is already developed & ~ 13% area is under construction phase out of the total SEZ area At present all existing coal yards are designed with drain, for collection of water during water sprinkling and rainfall, which is carried away to dump pond. Supernatant water from dump pond is being collected and used for dust suppression activities or after sedimentation, discharged to sea. Details of drain and dump pond has been submitted along with EC compliance report (Oct 19 to March 20). Analysis of said water discharging into sea during monsoon season is being carried out (twice in a year during monsoon) through NABL / MoEF&CC accredited



S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
			drains in the existing facility to meet the peak daily rainfall of 440 mm/hr. Hence flooding of water in the neighboring areas is not envisaged.				laboratory. The analysis report of the same shows there is no any contamination. The report of the same is was submitted during the compliance report submission for the period Apr'24 to Sep'24. During compliance period FY 2024-25 total recorded rain fall was 1365 mm observed, which was much less than the design capacity of existing storm water drainage system. So our existing storm water management facility is adequate to handle the storm water runoff from the area. Hence flooding of water in the neighboring areas is not envisaged.
			As per the directions given in the environment al clearance issued for the proposed Multi-Product SEZ and CRZ clearance for Desalination, sea water intake, outfall	The channel depth in all the natural streams shall be maintained to accommodate peak flood flow during the monsoon and periodical desilting activities in the natural steams passing through the APSEZ area	APSEZ, District Administratio n* and Irrigation department	As and When Required	Presently there is no Desalination plant, sea water intake and outfall facility developed as part of EC & CRZ clearance of Multiproduct SEZ. The project will be designed and implemented as per requirement without disturbing the natural flow of rainwater in all the seasonal streams.



S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
			facility and pipeline project, the master plan of the project was designed and being implemented without disturbing the natural flow of rainwater in all the seasonal streams.				
1. 3	Due to conservation and protection of mangroves in the designated conservation area, it has been predicted	Positive Impact with ecologi cal benefits	In addition to conservation of the identified 1254 ha mangrove areas around Mundra port and SEZ, APSEZ has taken up large scale	APSEZ will continue mangrove afforestation as per the commitment made with concerned regulatory authority	APSEZ	Short Term	APSEZ has carried out mangrove afforestation in 4140 ha. area across the coast of Gujarat till date. Total expenditure for the same till date is INR 1592.8 lakh. No further mangrove afforestation is pending w.r.t. commitment made with concerned regulatory authority for APSEZ, Mundra project. 1. NCSCM (MoEF&CC promoted Government Agency) study on comprehensive and integrated plan for preservation and conservation of mangroves and associated creeks in and around



S. Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & manage plans a or being adopte APSEZ permits clearant applica regulation and gui etc.	ement Mitigation dopted Measures/E g d by as per s, aces, ble	agency	Timeframe for implementation	Compliance
that the current mangrove footprint area would marginally increase in next 15 years due to natural growth. This will enhance the overall biodiversity in the local coastal ecosystem.	activit an ar more 2800 variou locatic across coast Gujara in consul with v	station ies in rea of than ha at s ons the of ut state			APSEZ in year 2016-17. The cost of said study was 3.15 Cr, which was incurred by APSEZ. As a part of mangrove conservation plan, APSEZ has done following activities. a. Monitoring of mangrove distribution in creeks in and around APSEZ and shoreline changes in Bocha island through NCSCM, Chennai. The cost of the said study was INR 23.56 Lacs incurred by APSEZ. b. Tidal observation in creeks in and around APSEZ – The cost of the said activity was INR 1.0 Lacs incurred by APSEZ. C. Algal & Prosopis removal from Mangrove area - The cost of the said activity was Rs. 150000 during FY 2024-25. The algal removal report is attached as Annexure – 10. d. Awareness of mangroves importance in surrounding communities & Fodder support - The expenditure for fodder supporting activities was approx. 410.48 Lacs during FY 2024-25 which was incurred by APSEZ. This is activity is being done on continuous basis as a part of CSR activity. Summary of Conservation of mangroves: Monitoring Agency Mangrove cover area Increased



S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance				
							Mangrove mapping Year		Mangrove cover total Area (Ha.)	Нас.	%
							2011		2094	-	-
							2011 to 2016-17	NCSCM	2340	246	11.75%
							2017 to 2019 till March	NCSCM	2596	256	10.94%
							2019 to 2021 till March	GUIDE	2723	127	4.89%
							Total		2723	629	
							As a part mangrove undertaken	om in and are (2723 Ha) is of GCZMA re	e in mangrovound APSEZ 6629 Ha (30° ecommendation pictivities.	from 20 %). ons an an, Af	011 (2094 d NCSCM



S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Comp	oliance	
							1.	Mangrove mapping and monitoring in and around APSEZ	 APSEZ entrusted NCSCM, Chennai to carry out Monitoring of mangrove distribution in creeks in and around APSEZ and shoreline changes in Bocha island. As a part of this study, overall growth of mangroves in the creeks in and around APSEZ was assessed comparing Google earth images of 2017 & 2019 and it is observed that there was increase in mangrove cover between March 2017 and September 2019 to the extent of 256 Ha, which is about 10.94%. This suggests that the mangroves and the tidal system in the creeks remain undisturbed over this period. Analysis of data between categories indicated that there was an increase in dense mangroves and also conversion of scattered to sparse which also shows that the growth of mangroves in a progressive direction. Hence, there is an overall growth of mangroves in creeks in and around APSEZ, Mundra is 502 Ha between 2011 and 2019. The cost of the said study was INR 23.56 Lacs incurred by APSEZ.



S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
							According to GUIDE Mangrove monitoring study report November 2023 (the report was submitted during the last compliance report submission Apr'23 to Sep'23),), the distribution of mangroves in Kotadi, Baradi mata, Navinal, Bocha and Khari creeks as well as in the Bocha island was studied using LISS IV satellite images for the duration of March 2019 to March 2021. The mangrove cover in the creeks in and around APSEZ showed a positive trend from March 2019 to March 2021, with an overall increase of 52.79 ha (1.9%) compared to the cover during the year 2019. The total mangrove cover during 2019 was 2670 ha which has increased to 2723 ha during the year 2021. Hence, overall increase in mangrove cover area in creek system in and around APSEZ from 2011 (2094 Ha) to 2021 (2723 Ha) is 629 Ha (30%). The cost of the said study was INR 23.60 Lacs incurred by APSEZ.
							Summary of Mangrove mapping and monitoring (from 2011 to 2021):



S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Comp	oliance				
									Mangr ove mappi ng	Mangr ove cover total	CO ^o	angrove ver area creased
									Year	Area (Ha.)	Ha c.	%
									2011	2094	-	-
									2011 to 2016- 17	2340	24 6	11.75%
									2017 to 2019 till March	2596	25 6	10.94%
									2019 to 2021 till March	2723	12 7	4.89
									Total	2723	62 9	
							2.	Tidal observation in creeks in		tions at lo	cation	the tidal s similar to ta, Navinal,



S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance	
							APSEZ	The observed tidal ranges indicate that the creeks experience normal tidal ranges, adequate for the growth of mangroves. The cost of the said activity was INR 1.0 Lacs. Algal and Prosopis growth monitoring was done in and around mangrove area and algal encrustation was found in some of
							4. Aware of mangrimport in surrou commiss	Adani Foundation – CSR Arm of Adani group has done awareness camps/activities created in the community regarding importance of mangroves. Adani Foundation provides Good Quality dry and according folder to 24 Villages Projects.



S. 6 No. 1 i	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
							supporting activities was approx. 410.48 Lacs during FY 2024-25, which was incurred by APSEZ. • Grass Land development: 213 acres of gauchar land has been cleaned and allocated for Grass land development with strong Community Contribution and Mobilization. • Other than this dedicated security guard with gate system deployed by APSEZ across the coastal area and no any unauthorized persons allowed within coastal as well as mangrove areas. • APSEZ has celebrated the International Day for the Conservation of the Mangrove Ecosystem on 24th to 26th July 2024 to raise awareness of the importance of mangrove ecosystems as "a unique, special and vulnerable ecosystem". The report for the same was submitted during the compliance report submission for the period Apr'24 to Sep'24. • Refer CSR report attached as Annexure – 2. To comply with the GCZMA recommendations regarding mangrove monitoring at every 2 years, presently APSEZ has awarded the work order to



S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
							NCSCM, Chennai vide order no. 4802055905, dated 24/09/2024 with cost 45.87 Lacs for mangrove mapping in and around APSEZ March 2021 to March 2023. NCSCM has conducted ground truthing during 5th to 7th Mar'25 & 22nd to 27th Apr'25 in and around our APSEZ area for mangrove mapping & study work has been completed. Final Mangrove mapping report is awaited from NCSCM.
1. 4	Developmen t activities along the coast might cause certain changes in hydro- dynamic characterist ics along the shoreline. Shoreline of any area also can be influenced by storm surges and		Detailed hydro- dynamic modelling and shoreline change prediction for a fully developed APSEZ facility has been studied. The study reveals that the erosion and accretion in the study	It is recommended to map the coastal morphology (Shoreline) at least once in three years	APSEZ	Continual Process	 Shore line change aspect has been studied in detail as part of following two studies; Bathymetry & Topography study, preparation of plan for protection of creeks/ mangrove area including buffer zone, mapping of co-ordinates, running length, HTL, CRZ boundary. A Regional Impact Assessment study to identify impacts of all the existing as well as proposed project activities in Mundra region. As per the outcome of these studies, no erosion is observed on the coast of the project area. As part of the Regional Impact Assessment study, the possible changes in shoreline that may occur due to the proposed developments in 10 km area on either side of the waterfront development project have been predicted. It has been inferred from the modelling study that the shift in the shoreline will be less than 0.5 m/year, which reconfirms that the APSEZ facility would pose insignificant impact on the Mundra



S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
	other natural processes.		area at the end of 15th year will be within the designated criteria of ± 0.5 m/year. which reconfirms that the waterfront development activities of APSEZ would pose insignificant impact on the Mundra shoreline.				shoreline. Accretion is observed at South port and at West port due to approved reclamation activities. Based on the study outcome, it is recommended to map the coastal morphology (shoreline change) at least once in three years. Shoreline change study was carried out by M/s. Gujarat Institute of Desert Ecology, Bhuj in 2022 as a part of the Environmental Management Plan (EMP) compliance with the CIA study. The cost of said study was INR 17.39 Lacs. As per GUIDE study, the rate of shoreline changes statistics on a time series of multiple shoreline positions of a totally 43 km coastline stretches (16 km on the west side and 27 km on the east side of Adani main port) on either side of Adani Ports and Special Economic Zone Ltd (APSEZL) has been taken into account for the calculation by using satellite images. As a part of the NGT direction, the shoreline change analysis has been carried out for the years 2015-2022 to study the immediate changes after the commissioning of the port and initiation of the activities (September 2015) for short-term variation for the year 2015-2022 using EPR method has been carried out.



S. No.	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Complia	nce					
							The details of the rate of shoreline changes (Short interval time) recorded from 2015 to 2022 are summarized in below table.						
							Perio	Perio d Name of the block	Change(M/Y ear)	Shoreline C	hange(M)		
							d			Maximum Accretion	Maximu m Erosion		
							2015- 2022	West Port	-11.43	39.86	-78.68		
								Easter n side	-26.60	191.32	-165.19		
							The Shoreline Change Assessment Study report of GUIDE was submitted along with six monthly compliance report for the period Oct'22 to Mar'23.						
							Shoreline change study was carried out by M/s. Chola MS, Chennai (NABET accredited consultant) also as a part of Waterfront Development Project – Expansion EIA study. The summary of the said study are as below.						
							approve shoreling using the 2018. In the she	ed water le chang ne satelli n order to oreline,	shoreline cha front developn e assessment ite imagery fo o avoid any ma the satellite considered f	nent plan, a has been u r a period o jor errors in data for si	historical undertaken of 2008 to estimating milar tidal		



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							2018. AMBUR Methodology was used to study the historical analysis. 10 km radius stretch of shoreline on either side of the
							APSEZ project boundary has been considered for assessing the historical shoreline change scenario. The baseline shoreline change assessment depicts the influence of both natural causes and also possible changes in the shore due to various development activities in the study area during the designated period. For the purpose of this study, shoreline on left side of APSEZ is termed as West Side Shoreline and that of the right side as East Side Shoreline for ease of recognition. The maximum accretion and erosion rate of the west side shoreline over a period of 10 years during the year 2008 – 2018 are observed to be 4.78 m/yr and 1.93 m/yr respectively.
							The maximum accretion and erosion rate of the east side shoreline over a period of 10 years during the year 2008 – 2018 are observed to be 05 m/yr and 0.82 m/yr respectively.
2	Regional Traffic	: Manageme					
2. 1	The projected traffic data as per the	Level-1	As per the master plan of APSEZ, eight artillery	Additional road as per master plan will be built in future based	APSEZ	As and When Required	Presently, ~ 39 % area is already developed & $\sim 13\%$ area is under construction phase out of the total SEZ area



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	EIA Report of Multi- Product Special Economic Zone, the peak vehicular traffic from the port and SEZ operations (including supporting facilities and colony) could be in the order of 18,300 and 10,400 vehicles per day respectively		roads will be connected to either state highway or national highway for evacuating the goods from APSEZ. None of these roads are passing through settlements, thereby avoiding traffic Congestions in the respective villages. The carrying capacity of the eight	on the overall progress of the project. Currently about 25% of cargo from APSEZ is transported by Rail and the same will be enhanced to 40% when the facility is fully developed in future. This will further reduce the traffic volumes on the regional road network.			Existing road/rail/conveyer infrastructure facilities are adequate to evacuate the existing cargo. Further, APSEZ's cargo evacuation through rail / conveyer / pipeline has ~40.79 %. Additional Road facilities will be built as per master plan considering future development. The facilities for transportation of cargo other than road will be enhanced considering future development, which will reduce the traffic volumes on the regional road Network.
	There could be a		artillery roads connecting APSEZ is				



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	possible		estimated to				
	increase in		be about				
	traffic congestions		16,000 PCU/hr as				
	on village-		against the				
	highway		envisaged				
	intersection		peak traffic				
	s and road		volume of				
	accidents.		4,500 PCU/hr.				
			Out of eight artillery roads considered in APSEZ master plan, seven roads were already developed and functional. APSEZ has been imparting Driver	APSEZ can undertake technical feasibility of	APSEZ & GSRDC*	Long Term	APSEZ is being imparting the regular in-house training awareness program in different mode i.e., classroom, on-job training, virtual platform & Assessment by internal & external trainer to all drivers and employees
			Training	implementing			on below topics:
			Programs to	Intelligent			✓ Basic induction Training for drivers



S. env No. I an imp the dev sce	entified vironmenta	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
			all their contractors to enhance awareness on road safety.	Transport System (ITS) for the freight carriers associated with their development activities.			 ✓ ITV Driver Training ✓ ITV Driver Induction for Supervisor ✓ Defensive Driving for LMV & HMV ✓ Defensive Driving & BBS ✓ Driver Assessment ✓ Road accident & rescue ✓ Traffic Management & Road Signage ✓ Driving safety training ✓ RORO Driver training ✓ Road Safety ✓ Defensive Driving & Emergency Action Plan ✓ Drivers Responsibilities & Safe driving ✓ Emergency Rescue (Vehicle) Training Approx. 915 Participants (On roll and contractual manpower) were benefitted from above trainings in compliance period Oct'24 to Mar'25. The same will be continued in future also. APSEZ has also implemented the Remote traffic management system (RTMS) to manage the traffic movements and capturing the violations to further improve the system. Following steps were taken by APSEZ to reduce the accidents. ✓ Handling and escorting of the ODC to ensure the smooth movement on the roads.



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							 ✓ Traffic Awareness programs for the drivers and regular briefing of the drivers in the parking areas. ✓ Incident handling and root cause analysis for taking necessary action in order to avoid such incidents. ✓ BAC checks for the drivers in order to identify the intoxicated drivers and necessary action is being taken against them. ✓ Water spray drive at gates are being conducted on regular basis during night hours to avoid doziness by the driver while driving. ✓ RTMS devices are being installed at 08 critical locations in order to capture speed violations and enforcing road safety regulations. ✓ Display of traffic signages and lane markings on road in coordination with the Civil team for ensuring road safety rules are being followed by the road users. ✓ We have approx. 100+ cameras which are being utilized for monitoring of traffic movement through CCTV and timely response in order to avoid any congestion and during traffic incidents. ✓ Regular traffic checks by Traffic Marshalls in order to ensure road safety rules (Wearing seat belt/Wearing helmet/Carrying driving license/Speed checks/Documents) is being followed by the drivers. ✓ Installation of Road furniture's (Cones/Water filled barriers/Cats eye/Spring Posts/Jersey Barriers) for lane segregation, Channelizing the traffic, at



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							Junctions and indicating Caution for the road users. ✓ In case on any Vehicle found breakdown in main roads, we arrange the security crane / lifting machines to remove /relocated the vehicle. Which help for smooth passage to other vehicles. ✓ Ensuring Drivers must wear near necessary PPEs, for that we have arranged a PPE's Stall at APMS parking area (issued on chargeable basis). ✓ Night Patrolling and PA announcement by Traffic DSO to manage traffic condition. ✓ Safety briefing via PA system at Security Gate.
3	Water resource	s Manageme	ent and sewage tr	eatment & disposal P	lan		
3.	For a fully developed APSEZ facility, water demand will be in the order of 4,30,000 m3/day (430 MLD). APSEZ will be sourcing majority of the water from the	No- Impact	APSEZ is meeting the current water demand through Narmada water supply scheme and 47 MLD captive desalination plant at site. Necessary water allocation	As per the master plan and permissions granted under EC, APSEZ will be developing progressively 4,50,000 m3/day (450 MLD) of desalination plants to meet the future demand. Hence stress on regional water resources due to	APSE Z	As and When Required	Presently there are two fresh water sources available with APSEZ. Desalination Plant – 80 MLD (47 MLD-Existing + 33 MLD New) Gujarat Water Infrastructure Limited (GWIL) – 9 MLD (sanctioned capacity). Current water demand for APSEZ along with SEZ industries including Adani Power Plant is an avg. of 31.89 MLD. So presently, these sources are adequate to fulfill the current freshwater requirement of entire APSEZ including member units.



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	captive desalination plants, which will be developed in progressive manner.		from concerned authorities was obtained and the same will be renewed from time to time as per the directions of state government.	these developmental projects will be less significant.			The desalination plant of additional capacities will be installed on modular basis considering future requirement of APSEZ.
3.2	Existing water demand in the Mundra taluk is estimated as 8500 m3/day (@55 lpcd) and the potable and sanitation water needs would increase to	Level-2	Adani Foundation has been contributing to various watershed development projects in the Mundra region to enhance ground water resources in the area.	Adani Foundation is planning to implement the various water resource conservation programs in next ten years under various schemes.	APSEZ and CGWB*	Long Term	Water needs of APSEZ is being met through existing Desalination Plant of APSEZ and GWIL which may be further enhanced on modular basis. At present Ground water is not utilized for any activities within APSEZ. However various works are being carried out by Adani Foundation continuously under Water Conservation Work to achieve water security in Mundra region by Adani Foundation. Following works are carried out as a part of water conservation work since April – 2018. Water conservation Projects i.e. Roof Top Rainwater Harvesting, Desilting of Check dams, Bore Well Recharge and Pond deepening were taken up in past years, review and monitoring of all water harvesting structures had been taken up.



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37,000 m3/day (@125 lpcd) in future wher the area is fully growr into large municipality due to induced economic growth. Water demand of the loca communitie s is med through Narmada water supply system to some extent, but largely depending on the		Adani Foundation has contributed about Rs. 300 Lakhs so far for the development of 18 check dams.				To make connections between human actions and the level of biological diversity found within a habitat and/or ecosystem, this year Adani Foundation launch project "Sanrakshan" in coordination with GUIDE and Sahjeevan. Since, 10 years considerable Water Conservation Work carried out in Mundra Taluka. Due to satisfactory rain in current year 1.11 mtr ground water table increased as per increased in coastal belt of Mundra as per Government Figures. WORK COMPLETED: Water Conservation Projects completed during FY 2024-25 Compliance period: Adani Foundation has undertaken significant water conservation initiatives to address water scarcity and improve water availability in rural areas. Through the creation of 737 various water structures, the project has increased water capacity by 5,400,735 cubic meters (CUM) and benefited 64,515 people. Check Dam New/Renovation: Structures: 29 Water Capacity Increase: 1,072,332 CUM Beneficiaries: 30,870 Impact: Enhances water storage and irrigation. Rainwater Harvesting Structures (RRWHS): Structures: 330



Identified S. environmenta No. I and social impacts for the fully developed scenario (year 2030)	Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
ground water in the study area. Mundra block is reported to be a safe ground block as on date. Due to influx of people and rapid urbanizatio n due to the economic developmen t, there could be some stress on the ground water resources in future.						 Water Capacity Increase: 3,300,000 CUM Beneficiaries: 1,650 Impact: Maximizes rainwater capture and usage. Rs. 10950 yearly saved/house Pond Deepening: Structures: 135 Water Capacity Increase: 1,028,403 CUM Beneficiaries: 18,350 Impact: Improves water retention and availability. Construction of Percolation Wells: Structures: 26 Ground Water Recharge: Significant Beneficiaries: 3,000 Impact: Boosts groundwater levels and availability. Bore/Well Recharge Structures: 209 Ground Water Recharge: Significant Beneficiaries: 1,045 Impact: Enhances groundwater recharge and sustainability. Construction of New Wells: Structures: 8 Purpose: Drinking Water Beneficiaries: 9,600 Impact: Provides reliable drinking water sources Earlier Completed Activities/Projects: Large number of water harvesting structure (18 Nos. of check dams in coordination with salinity department)



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							 Ground recharge activities (pond deepening work for 66 ponds) individually and 26 ponds under Sujlam Suflam Jal Abhiyan were built leading to a significant increase in water table and higher returns to the farmers. New Pond Deepening Under Ajadi ka Amrut Mahotsav done in Goyarsama village Approx Deepening Capacity is 12000 Cum. Roof Top Rainwater Harvesting 145 Nos. (40 Nos. current FY 2022-23) which has 10,000 litre storage which is sufficient for one year drinking water purpose for 5 people family. Recharge Borewell 208 Nos (19 Nos. current FY 2022-23) which is best ever option to direct recharge the soil. Drip Irrigation approx. 1505 Farmers benefitted in coordination with Gujrat Green Revolution Company till date. Bund construction on way of Nagmati River could save more than 575 MCFT water quantity which recharged in ground due to which borewell depth decreased by 50-100 Ft in Zarpara, Bhujpur and Navinal Vadi Vistar. Pond Pipeline work at Prasla Vistar Zarpara which increase recharge capacity more than 25% in 100 hector area. Check dam gate valve construction at Bhujpur which controlled more than 350 MCFT water to go into sea and get recharged current year. With the objective of to preserve the rainwater to reduce the impact of salinity and recharge the ground water (the main source of water) to facilitate the Agricultural activities as well as for drinking water.



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							Adani foundation has spent approx. INR 10079.78 lakhs from April – 2018 to March - 2025 for CSR activities which also includes water conservation projects as mentioned above.
3. 3	It is estimated that about 60,000 m3/day (60 MLD) of sewage will be generated from the APSEZ facility when the project is fully developed.	No Impact	Seven sewage treatment plants with an aggregate capacity of 3.1 MLD have already built at APSEZ. Treated sewage is utilized for greenbelt development and sewage is not discharged into either seasonal natural streams or marine environment.	APSEZ is permitted to develop decentralized sewage treatment plants of total 62 MLD capacities. Existing sewage treatment facilities will be augmented progressively based on the development at APSEZ in future. Similar to existing practices, treated sewage will be utilized for greenbelt development.	APSEZ	As and When Required	Current installed capacity of wastewater treatment plants is 6.255 MLD (ETP, STPs & CETP) for treatment of effluent & sewage generated at various locations of APSEZ excluding wastewater treatment plants installed within induvial member units. Out of 61 only 4 operational industries within the SEZ are sending their partially treated industrial as well as domestic effluent to the CETP confirming to CETP inlet norms for further treatment and final disposal. Other SEZ industries have their own STPs / ETPs for treatment of wastewater generated from their industrial operation and discharging the treated water on land for horticulture purpose within their premises as per specific permission granted by SPCB. APSEZ also granted permission to treat 2.5 MLD of sewage generated from Mundra village through CETP and STP. Presently avg. 2.61 MLD of wastewater (into ETP, STPs & CETP) is treated and being utilized on land for horticulture purpose within APSEZ premises during



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							Oct'24 to Mar'25. Existing wastewater treatment plants are adequate to treat and handle the total effluent / sewage load considering current development. Existing wastewater treatment facilities will be
							augmented, or new plants will be developed on modular basis considering future requirement.
4	Air quality man	agement Pla					
1	Although all the regulated activities in the study area will be adopting	Level-2	APSEZ and other thermal power plants have obtained valid consent	All existing and new industrial establishments will obtain requisite consents from GPCB and adhere	APSEZ And Other Industries	Continual Process	APSEZ has been granted requisite permissions from the concerned authorities with stipulated norms for air emission (flue gas as well as ambient air). Ambient Air Quality monitoring is being carried out by NABL accredited and MoEF&CC authorized agency namely M/s. Unistar Environment and Research Labs
	promulgate d emission norms, total air emission mass		to operate and have been operating the facilities	to the stipulated emission norms regulations and guidelines issued by authorities			Pvt. Ltd., Vapi for APL as per NAAQ standards, 2009. Stack emission monitoring is also being carried out on regular basis. Reports of the same are being submitted to the concerned authorities on regular basis.
	discharge from the study area would increase.		as per the emission norms stipulated in respective	from time to time.			Adani power plant has installed continuous emission and air quality monitoring instruments as per CPCB Directive and submitting the reports also. Another power plant of CGPL is outside APSEZ area.
			consent orders.				The AAQM summary for last six months (Oct'24 to Mar'25) are as below.



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			power plants				villages)	.	1 .			
			are monitoring				Frequency:					Perm.
			the ambient				Parameter	Unit	Min	Max	Average	Limit ^{\$}
			air quality on regular				PM ₁₀	µg/m³	42.0 0	85.91	70.96	100
			intervals as				PM _{2.5}	µg/m³	14.61	42.39	27.52	60
			per GPCB/CPCB				SO ₂	µg/m³	7.15	34.01	19.13	80
			guidelines				NO ₂	µg/m³	9.83	38.46	23.04	80
			and the data is analyzed and presented to GPCB on monthly basis. Both the thermal power plants located within the study area have installed continuous emission and				s as per NAAQ standards, 2 Values recorded confirms to the stipulated stand Approx. INR 17.27 Lakhs is spent by APSEZ environmental monitoring activities during the 2024-25, which also includes ambient air qu monitoring for overall APSEZ, Mundra. Other industries located within the SEZ have obta requisite permissions from the competent author for their respective plant and they also carried environmental monitoring within their premises comply with the permission granted. The same been ensured by APSEZ as well as SPCB during the regular visits. APSEZ carries out regular visits.					SEZ for the FY quality obtained thorities rried out mises to ame has ing their regular



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			air quality monitoring instruments as per CPCB directive.				last visit was conducted during March, 2025 for EMS & compliance verification. During compliance verification, it was verified that monitoring of air emission was well within the permissible standards based on analysis reports. Same will be continued in future also. The monitoring reports of industries within SEZ are also being submitted to the regulatory authorities as a part of half yearly Compliance report of EC for Multi-Product SEZ.
				A common air quality management committee may be framed under the guidance of the State Pollution Control Board and district administration to manage regional level emission inventory data that can help to manage regional level air	APSEZ and Other Industries, Stakeholders, District Administratio n and GPCB*	Long Term And Continual	 APSEZ will co-operate and comply with the directions from concerned regulatory authorities for air quality management within APSEZ area. However, at present, APSEZ has formed Internal Environment Monitoring Committee, involving officials from APSEZ, Adani Power Limited and other SEZ member units with following role and responsibilities: Identification of sources of air & noise emission and its dispersion in surrounding villages Remedial measures to eliminate, control, reduce or capture air & noise emission. Identify available resource to abate the air and noise emission. Required additional resources for control of air and noise emission. Drinking water and its testing of all the available fresh water sources in surrounding villages



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				quality management goals.			 Identify any surrounding villages affected by organization's improper waste disposal mechanism. Last committee meeting was conducted on dated 16.05.2025 and below was the point of discussion for way forward. Brief introduction about the Environment Management Plan (EMP) All members conveyed his environment management practices, issue & suggestions. Discussed about the various ways to improve existing practice to control the emission in terms of Air, Water and Noise. Discussed about the proper management of the canteen waste. Discussed about the cleaning of outside of the SEZ units. Discussed about the management of rain water & proper cleaning of the common storm water drainage system. Discussed about proper segregation & disposal of solid waste material. Discussed about to increase more green belt area inside plant premises of SEZ units. APSEZ and all the industries within SEZ are complying to NAAQS and same is being ensured by APSEZ. The



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							monitoring reports of industries within SEZ are being submitted to the regulatory authorities as part of half yearly Compliance report of EC for Multi-Product SEZ.
4. 2	Release of particulate emissions from handling and storage of coal at the port and power plants would influence PM10 and PM2.5 concentrati on in the background air. This could pose some health impacts such as asthma and COPD etc.	Health Impact	APSEZ has been implementin g the following management plan to control emissions as per the applicable regulations and similar practices will be adopted in future: Entire bulk material handling facilities are mechanized. Regular water	All industries located in the APSEZ shall adhere to the emissions norms and minimum stack height guidelines issued by CPCB and consent to operate issued by Gujarat Pollution Control Board from time to time.	APSEZ and Other Industries	Continual Process	 Following safeguard measures are taken by APSEZ for abatement of dust emissions. Adequate stack heights to the Boilers, D.G. Sets, TFHs & HWGs for proper dispersion of pollutants within APSEZ Using of liquid & Gaseous fuels instead of solid fuels in Boilers, Thermic fluid heaters and hot water generators. Regular sprinkling on road and other open area Regular cleaning of roads Dry fog Dust Suppression System (DSS) in hopper, transfer towers and conveyor belts Use of water mist canon Closed type conveyor belts Regular sprinkling on coal heaps Covering other types of dry bulk cargo heaps Installation of wind breaking wall Development of greenbelt along the periphery of the storage yards/back up area Mechanized handling system for coal and other dry bulk cargo Wagon loading and truck loading through closed



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	local communitie s.		other open areas, regular cleaning of roads, dry fog dust suppression systems (DSS) in hoppers, transfer towers and conveyor belts, use of water mist canon, covered conveyor belts, regular sprinkling on coal heaps,				moveme Adequate ai FGDs, Bag F provisions ar plant. For reduction Emission Cor O6 nos. of D from DG sta Annexure – 1 The stack m (Oct'24 to M Total Nos. of Frequency: M Parameter PM SO ₂ NO _x	r pollurilters, re imples on of emptrol De G sets ocks. Planton on itor on of emptrol De G sets ocks. Planton on itor on of emptrol De G sets ocks. Planton on itor on on on itor on on ito	tion corrects. tion corrects. emented ission fraction (RE to reduct to re	om DG steed of the part of the	esures li te stack ne therm acks, Re been ins rticulate ECD atta last six	trofitting stalled on material ached as months Avrg. 22.41 9.28 23.45
								recorde	d confirm Lakhs	is to the si	ipulated t by Af	standards. PSEZ for



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							2024-25, which also includes ambient air quality monitoring for overall APSEZ, Mundra. All other industries located within SEZ are adhere to provide adequate stack height and pollution control measures for proper dispersion of pollutants as per respective permissions granted by the board. The same is being inspected and ensured by APSEZ as well as SPCB officials on regular basis.
			covering of other types of dry bulk cargo heaps by protective materials, installation of wind breaking wall, development of greenbelt along the periphery of the storage yards/back up area and mechanized	An internal Coal Dust Management Working Group shall be formed by APSEZ to effectively co-ordinate the approach to coal dust management and monitoring	APSEZ and Other Industries, Concerned Stake holders, District Administratio n*	Long Term	As mentioned above, earlier APSEZ has formed Internal Environment Monitoring Committee, involving Officials of APSEZ, Adani Power Limited & other member units, with specific role and responsibilities as defined above. The dry cargo is being handled by mechanized system and transported by covered conveyer system, trucks and rail wagons. Wind breaking wall is provided around the coal storage yards of APSEZ as well as Adani Power Plant. Adequate air pollution control measures like ESPs, FGDs, Bag Filters, etc. and adequate stack heights provisions within the thermal power plant for proper dispersion of pollutants. Green belt / plantation is provided around the periphery of dry cargo storage area and regular water sprinkling is also being done to abate the dust emission



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			handling system for coal and other dry bulk cargo and Wagon loading and truck loading through closed silo. Both thermal power plants in the study area have installed electrostatic precipitators on the boilers and are meeting the emission norms as per the respective ECs granted. Due to installation of tall stacks				from coal hips. Last committee meeting was conducted on dated 16.05.2025 and below were the points of discussion for way forward. Brief introduction about the Environment Management Plan (EMP) All members conveyed his environment management practices, issue & suggestions. Discussed about the various ways to improve existing practice to control the emission in terms of Air, Water and Noise. Discussed about the proper management of the canteen waste. Discussed about the cleaning of outside of the SEZ units. Discussed about the management of rain water & proper cleaning of the common storm water drainage system. Discussed about proper segregation & disposal of solid waste material. Discussed about to increase more green belt area inside plant premises of SEZ units. Discussed about disposal of minor qty. of generated hazardous waste & E-Waste materials at authorized recycler/vendor.



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			as per CPCB guidelines and EC conditions, the relative air pollution impacts due to release of emissions from two power plants is insignificant.				
4.	Ships are one of the significant sources of SO2 and NOX emissions in the study area. Marine diesel engines on the ships often utilize fuel oils that might	Level-2	A Standard Operating Procedure (SOP) has been developed to be included as a part of APSEZ environment management	The current global limit for Sulphur content of ships fuel oil is 3.5 % m/m (mass by mass). According to MARPOL, the new global cap on sulphur in the marine vessel fuels will be 0.50% m/m by the 1st January	APSEZ and Ship Owners	Long Term	The ships coming to the APSEZ is complying with MARPOL and other shipping rules and regulations. APSEZ has already started providing shore power supply to the tugs (11 Nos.), dredgers (2 Nos.) and barges (1 No.). The feasibility of shore power will be explored and implemented on large scale for the visiting vessels to reduce idling stage ship emissions.



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	contain higher sulphur content. As per the internationa I best practices, these marine diesel engines are designed to meet MARPOL regulations with NOX emissions less than 14.4 gram/Kwhr of engine. Due to lower stack heights of the marine diesel engine, ship		plan to verify that all ships anchored at the port are adopting the MARPOL4 regulations.	2025. APSEZ should explore the possibility of providing shore power to the ships at the port to reduce idling stage ship emissions.			



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	emissions often gets dispersed in the local environmen t and might pose risk of fumigation during the early morning and evening hours due to atmospheric inversion break-up						
4. 4	Road vehicle emissions will be other major contributors to the air	Level-2	Not Applicable	Due to implementation of Bharat VI fuels (MoEF&CC) in near future the vehicular and diesel engine emissions will be reduced by about 50% from the current national	APSEZ and All Industries	Short Term	Presently, cargo evacuation through rail / conveyer / pipeline is ~40.79 % of overall cargo evacuation. Vehicles having valid PUC certificate are only being allowed to enter within the APSEZ area. APSEZ, has procured 217 nos. of Electrical Vehicle for internal cargo movement and all E-ITV's are in operation. As well as procured 10 nos. LMV E-Vehicles for



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	pollution in the region when the facility is fully developed.			levels. APSEZ should develop a robust contractor environmental policy to ensure that Bharat Stage VI emission norms are adopted by all their contractors and sub-contractors.			manpower movement and all are in operation. Electrification of Rail Corridor from Dhrub Railway Station to Adipur Railway Station has completed and movement started by electric locomotive. It will leads to reduce the gaseous emission and increase efficiency of transportation by rail.
5	Noise emissions						
5. 1	Noise emissions are envisaged from port operations, industrial operations and power plants in the study area.	Level-1	Due to adoption of various mechanized operations at the waterfront development , the noise emissions from the port cargo handling will	APSEZ, all the tenant industries and facilities within APSEZ are required to undertake noise monitoring at their facilities to demonstrate the compliance with the Noise level standards. Continuous noise	APSEZ	Continual Process	 Below Safeguard measures are already taken for abatement of noise emissions. Development of greenbelt along the periphery of the operational area. D.G. Sets having Acoustic enclosures. Maintenance of plant machineries and equipment's on regular frequency. Noise monitoring is being carried out by NABL accredited and MoEF&CC authorized agency namely M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi as per permission granted and reports are being submitted to the concerned authorities on regular



Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Complianc	e				
be minimal. An adequate greenbelt is being developed by APSEZ to further reduce any residual impacts due to noise emissions from the facility. Periodic noise level monitoring programs were adopted by APSEZ. Predicted noise levels were found to be well within the	recording units can be installed by APSEZ at facility boundary to address the community grievances, when ever required. To assess the overall site wide compliance and also to address any community grievances related to noise issues due to operation of APSEZ facilities.			Noise Day Time Night Time Approx. If environme 2024-25, monitoring All the resit can be surroundir	Mar'25) a 18 Nos. : Once in Unit dB(A) NR 17.27 ntal more which a gror over ults are we inferred a communications and ustries	a month (Leq Min 69.30 66.40 Lakhs initoring also included in	24 hour Leq Maxn 47.90 38.70 s as p s spent activities des amb Mundra the star ere no	y) Leq Avr. 63.36 59.61 er GPCB by Af during pient ai . ndards. fi impacts	Leq Perm. Limit ^{\$} 75 70 standards PSEZ for the FY r quality From this on the
	plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc. be minimal. An adequate greenbelt is being developed by APSEZ to further reduce any residual impacts due to noise emissions from the facility. Periodic noise level monitoring programs were adopted by APSEZ. Predicted noise levels were found to be well	management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc. be minimal. An adequate greenbelt is being developed by APSEZ to further reduce any residual impacts due to noise emissions from the facility. Periodic noise level monitoring programs were adopted by APSEZ. Predicted noise levels were found to be well within the designated	management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc. be minimal. An adequate greenbelt is being developed by APSEZ to further reduce any residual impacts due to noise emissions from the facility. Periodic noise level monitoring programs were adopted by APSEZ. Predicted noise levels were found to be well within the designated	management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc. be minimal. An adequate greenbelt is being developed by APSEZ to facility boundary developed by APSEZ to further reduce any residual impacts due to noise emissions from the facility. Periodic noise level monitoring programs were adopted by APSEZ. Predicted noise levels were found to be well within the designated	management plans adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc. be minimal. An adequate greenbelt is being developed by APSEZ at facility boundary to address the APSEZ to furner grievances, when reduce any residual over reduce any residual to noise emissions from the facility. Periodic noise level monitoring programs were adopted by APSEZ. Predicted noise levels were found to be well within the designated	management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc. be minimal. An adequate greenbelt is being facility boundary to address the community further reduce any residual impacts due to noise emissions from the facility. Periodic noise level monitoring programs were adopted by APSEZ. Predicted noise levels were found to be well within the designated	management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc. be minimal. An adequate greenbelt is being developed by APSEZ to further reduce any residual impacts due to noise emissions from the facility. Periodic noise level monitoring programs were adopted by APSEZ. Predicted noise level moise level moise level moise levels were found to be well within the designated monitoring to the designated monitoring adopted by APSEZ. Predicted noise levels were found to be well within the designated monitoring and control the amonitoring and control the amoni	management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc. be minimal. An adequate greenbelt is being facility boundary developed by APSEZ at facility boundary developed by APSEZ to community further grievances, when reduce any residual impacts due to noise emissions from the facility. Periodic noise level monitoring community grievances were adopted by APSEZ. Predicted noise levels were found to be well within the designated	management plans adopted or being adopted by APSEZ at greenbelt is being facility boundary developed by APSEZ to further reduce any residual impacts due to noise emissions from the facility grievances any community grievances from the monitoring programs were adopted by APSEZ held foliations and suddress any community grievances and process and to be installed to noise indicate the control of the process of the process of the control of the process of



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			standards for Industrial facilities.	In order to address the public grievances related to noise from the facility, an internal Noise Management Committee can be formed by APSEZ to investigate the root cause and to develop and implement noise mitigation plans in the specific zones.	APSEZ	Continual Process	confirmed by APSEZ as well as SPCB on regular basis. Further, till date APSEZ has not received any grievances/notice for noise issues from any of the stakeholders. As mentioned above, earlier APSEZ has formed Internal Environment Monitoring Committee, involving Officials of APSEZ, Adani Power Limited & other member units, having role and responsibilities as defined above. Last committee meeting was conducted on dated 16.05.2025 and below were the point of discussion for way forward. Brief introduction about the Environment Management Plan (EMP) All members conveyed his environment management practices, issue & suggestions. Discussed about the various ways to improve existing practice to control the emission in terms of Air, Water and Noise. Discussed about the proper management of the canteen waste. Discussed about the cleaning of outside of the SEZ units. Discussed about the management of rain water & proper cleaning of the common storm water drainage system.



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							 Discussed about proper segregation & disposal of solid waste material. Discussed about to increase more green belt area inside plant premises of SEZ units. Discussed about disposal of minor qty. of generated hazardous waste & E-Waste materials at authorized recycler/vendor. No grievance received for noise related issues, and it is observed that ambient noise level are well within the permissible standards.
6	Surface water	l Quality (Tecc	 estrial and Marine	<u> </u>			permissible standards.
6. 1	In general, release of untreated wastewater from industrial facilities would pose threat to water quality of streams,	Level -1	As per the master plan of APSEZ, 67 MLD of wastewater is expected to be generated from the fully developed project scenario, for which	As per the master plan of APSEZ, the existing CETP shall be augmented to 67 MLD in progressive manner based on the future demand. The facility should limit the marine discharge of	APSEZ	As and When Required	APSEZ has installed Common Effluent Treatment Plant (CETP) having 2.5 MLD capacities for treatment of partially treated effluent and sewage generated from industries within SEZ. Currently, CETP receives 902.45 KLD (Avg.) during this compliance period hydraulic load and considering the current development scenario, existing CETP is adequate to treat and handle the total effluent load coming from industries within SEZ. Out of 61 operational units only 4 industries within SEZ are sending their partially treated industrial as well as
	estuaries and marine water		necessary permissions to set up	treated industrial wastewater to 16 MLD as per the			domestic effluent to the CETP confirming CETP inlet norms for further treatment and final disposal. Other industries within SEZ have their own STPs / ETPs for



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	bodies.		decentralize d CETPs of various capacities are already obtained. Presently a CETP capacity of 2.5 MLD is in place. Presently member units treat their effluents to meet the CETP inlet norms and then send it to CETP. Treated wastewater from CETP meets the stipulated discharge norms for	permits. Remaining treated wastewater shall be utilized for horticulture purpose.			treatment of wastewater generated from their industrial operation and discharging the treated water on land for horticulture purpose within their premises as per permission granted by SPCB. The capacities of CETP will be enhanced on modular basis as per future requirement. Presently avg. 2.61 MLD (from CETP, ETP & STPs) of treated water is being utilized on land for horticulture purpose within APSEZ premises during period Oct'24 to Mar'25 and no discharge is made to any other source.



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			utilization for greenbelt development within the APSEZ areas.				
			Online wastewater quality monitoring systems are installed at CETP to ensure quality of treated effluent meets the requisite discharge norms. No wastewater from CETP is discharged into natural bodies as on date	Efforts shall be made to recycle complete treated wastewater for port operations and industrial operations of APSEZ in future based on a detailed technoeconomic feasibility study.	APSEZ	Based on outcome Techno- feasibility Study	Online continuous effluent monitoring system (CEQMS) installed at the discharge point of CETP to track any deviation from discharge norms. CEQMS is connected with CPCB/GPCB server & data is continuous transferring in both servers. Presently entire quantity of treated water from CETP is used for gardening / horticulture purpose within APSEZ premises.
			Runoff during	Storm water runoff from the			There are provision of drains around coal stack yard to carry to runoff water to dump ponds. This water is



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			monsoon from coal storage yards is collected in sedimentatio n ponds (dump pond) to remove any residual dust particulates for further disposal into	facility during the first rain shall be sampled and analyzed for the presence of heavy metals or other criteria pollutants to adopt corrective and preventive actions to protect the marine water quality. All red and	APSEZ	Continual	either use (to remove Presently in a mont namely N Pvt. Ltd., reports of concerne The maring six monther Locations Frequence	Marin th by N th by N th	e monit IABL and nistar El for APS same orities der er qualif '24 to N	t), is a oring d MoEnviron SEZ & are to regular'25)	is being F&CC Iment Opening Ular ba Initorin Disas	dispo g carr accret and Re both. submi sis. g sum per bel	ied ou dited a esearc The a tted	sea. It once agency th Labs nalysis to the
				hazard category industry within APSEZ shall			TEST PARAM ETERS	UNIT	Cumula	ative Su Ma		Cumu	lative E	Bottom Aver
				adopt spill prevention and					Min	x 8.3	age	Min	x 8.3	age
				control program and no effluents shall be			BOD	mg/L	7.91 2.20	0 4.4 0	3.13	7.74 BDL (MD L:1. 0)	0 4.5 0	3.04
				discharged into storm water-drains.			TSS	mg/L	26.90	144 .00	90.1 2	32.9 0	132 .00	84.6 4
							DO	mg/L	4.50	6.6 9	5.62	4.4 0	6.4 9	5.42



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							Salinity	ppt	35.20	39. 20	36.4 6	26.7 6	39. 40	36.9 1
							TDS	mg/L	34410	365 50	358 58	353 70	376 10	3687 3
							Temper ature	οС	29.00	30. 70	29.9 0	28. 90	30. 60	29.71
			Detailed	Good dredging			Approx. environm 2024-25 monitori No capit	nental , whic ng for d	monitor h also overall A	ing a includ PSEZ,	ctivition des ar Mund	es du nbient ra.	ring t air	the FY quality
			marine hydrodynami c modelling studies revealed that the current and proposed	practices shall be adopted by APSEZ: (i).Improving the dredging accuracy (ii).Improving onboard	APSEZ	Long Term	Capital d 1 (A) are Mar'25. carried d Mar'25.	4. redging ea duri Total 1	g or recl ing the .55 MC	amati comp JM Ca	on is c liance apital (arried perio dredgii	out ir d Ocl	n CRZ – t'24 to s been
			dredged soil disposal practices, sea water intake and outfall facilities and desalination	automation and monitoring, (iii). Reduce spill and loss, (iv). evaluating the need for installing silt screens near			Dredged dredging within de Dredging dredging Presently Trailer s dredging	is be eep sea Mana and there suction	ing disp as iden gement manag are 3 no	oosed tified plan is emen s. (2 N	at de by NIC adopt t of los. Cu	signat). :ed for dredg tter su	ed loo carry je m iction	ing out aterial. +1 No.



shown insignificant impact on the marine eco-system. As part of the comprehensi ve environment all monitoring mangrove and since the manitoring shown insignificant impact on the marine and the marine eco-system. As part of the such a way that the comprehensi ve environment all monitoring mangrove and since the content of the same are being submitted to the concerned authorities on regular basis Summary of marine water for the last six months is as mentioned above. The analysis reports of the same are being submitted to the concerned authorities on regular basis Summary of marine water for the last six months is as mentioned above. The same practice will be continued in future also as per direction by MoEF&CC as well as GPCB. Monitoring will be focused near ecological sensitive.	S. e No. I ii t	dentified environmenta and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
7 Groundwater quality and salinity ingress	7 6	Groundwater o	uality and sa	etc have shown insignificant impact on the marine eco-system. As part of the comprehensi ve environment al monitoring program, APSEZ has been adopting marine water and sediment quality monitoring on monthly basis.	during the dredging phase operations, (v). Environment friendly dredging activities can be undertaken in such a way that the overall turbidity levels near the mangrove and ecologically sensitive zones shall not exceed 100 NTU or 200 mg/l of TSS (10% lethal level of fish) Existing marine monitoring program shall be continued as per the directions of MoEF&CC and			The same practice will be continued in future also as per direction by MoEF&CC as well as GPCB. Monitoring will be focused near ecological sensitive area in case of need to carryout capital dragging near



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7.	While Mundra block is enjoying safe ground water status as on date (based on the data published by CGWB), due to induced economic and population growth, use of ground water resources by the local people might increase in Mundra region. This might increase the	Level-2	APSEZ is not utilizing ground water for any type of use. APSEZ is meeting the current water demand through Narmada water supply scheme and 47 MLD captive desalination plant at site.	A dedicated desalination plant of capacity 4,50,000 m3/day (450 MLD) will be developed in progressive manner to meet the APSEZ requirements.	APSEZ	As and When Required	Present source of water for various project activities is desalination plant of APSEZ and/or through Gujarat Water Infrastructure Limited (GWIL) and same is sufficient to meet the present water demand. APSEZ does not draw any ground water. "Desalination plant of 47 MLD capacities already developed as part of earlier clearances granted in 2009. Additional development of 33 MLD capacity Desalination plant has been developed. At present total 80 MLD (47 MLD – Existing + 33 MLD – New) desalination plant developed under WFDP west port (GPCB ID – 35427) with utilization of existing intake and outfall channel (up to 300 MLD capacities) and CC&A Amendment for the same granted by GPCB board CC&A Amendment order copy for the same is attached as Annexure – 12 . Additional development of 80 MLD desalination plant is under progress through Mundra Petrochemical Ltd. (Subsidiary company of Adani Group). Separate Consent to Establish from GPCB has been obtained by them vide Order no. CTE-77914 dated 09.12.2024. Copy of the same is attached as Annexure – 13 .



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	TDS and chloride levels in the ground water in future.						Balance 287 MLD capacity desalination plant will be developed on a modular basis as per business requirement.
7. 2	Due to induced growth in the region, pressure on the available ground water source would increase and this could pose some threat to salinity ingress.	Level-2	Ground water is not drawn by APSEZ for its operations. Natural streams (seasonal rivers) passing through the APSEZ area will not be disturbed, the micro- watershed in the area will not be disturbed. Due to the above reasons, the	The Govt. of Gujarat, Narmada, Water Resources, Water Supply & Kalpsar Dept.,(WRD)12 has been implementing various salinity ingress prevention projects	District Administratio n*	Long Term	APSEZ will co-operate and comply with the directions from concerned regulatory authorities. APSEZ does not draw any ground water for the fresh water requirement. However, Adani Foundation – CSR arm of Adani Group has carried out rainwater harvesting activities in the nearby villages for benefit of the locals. Water conservation Projects i.e. Roof Top Rainwater Harvesting, Desilting of Check dams, Bore Well Recharge and Pond deepening were taken up in past years, review and monitoring of all water harvesting structures had been taken up. To make connections between human actions and the level of biological diversity found within a habitat and/or ecosystem, this year Adani Foundation launch project "Sanrakshan" in coordination with GUIDE and Sahjeevan. Since, 10 years considerable Water Conservation Work carried out in Mundra Taluka. Due to satisfactory rain



S. environt No. I and so impacts the fully develop scenario (year 20	nenta Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
		possibility of salinity ingress due to APSEZ development is not envisaged. Mundra and Anjar blocks fall under fresh water to medium salinity zones. It can be observed that little variation was observed in the ground water salinity levels from year 2013 to 2016 across the Mundra and Anjar blocks. This aspect confirms				in current year 1.11 mtr ground water table increased as per increased in coastal belt of Mundra as per Government Figures. WORK COMPLETED: Water Conservation Projects completed during last Compliance period: Water Conservation Projects completed during FY 2024-25 Compliance period: Adani Foundation has undertaken significant water conservation initiatives to address water scarcity and improve water availability in rural areas. Through the creation of 737 various water structures, the project has increased water capacity by 5,400,735 cubic meters (CUM) and benefited 64,515 people. Check Dam New/Renovation: Structures: 29 Water Capacity Increase: 1,072,332 CUM Beneficiaries: 30,870 Impact: Enhances water storage and irrigation. Rainwater Harvesting Structures (RRWHS): Structures: 330 Water Capacity Increase: 3,300,000 CUM Beneficiaries: 1,650 Impact: Maximizes rainwater capture and usage. Rs. 10950 yearly saved/house Pond Deepening: Structures: 135



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			that the overall salinity ingress from the shore into the land due to existing APSEZ facilities and power plant outfalls are less significant.				 Water Capacity Increase: 1,028,403 CUM Beneficiaries: 18,350 Impact: Improves water retention and availability. Construction of Percolation Wells: Structures: 26 Ground Water Recharge: Significant Beneficiaries: 3,000 Impact: Boosts groundwater levels and availability. Bore/Well Recharge Structures: 209 Ground Water Recharge: Significant Beneficiaries: 1,045 Impact: Enhances groundwater recharge and sustainability. Construction of New Wells: Structures: 8 Purpose: Drinking Water Beneficiaries: 9,600 Impact: Provides reliable drinking water sources Earlier Completed Activities/Projects: Large number of water harvesting structure (18 Nos. of check dams in coordination with salinity department) and Augmentation of 3 check dams. Ground recharge activities (pond deepening work for 61 ponds) individually and 26 ponds under Sujlam Suflam Jal Abhiyan were built leading to a significant increase in water table and higher returns to the farmers. New Pond Deepening Under Ajadi ka Amrut Mahotsav done in Goyarsama village Approx Deepening Capacity is 12000 Cum.



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							 Roof Top Rainwater Harvesting 145 Nos. (40 Nos. current FY 2022-23) which has 10,000 litre storage which is sufficient for one year drinking water purpose for 5 people family. Recharge Borewell 208 Nos (19 Nos. current FY 2022-23) which is best ever option to direct recharge the soil. Drip Irrigation approx. 1505 Farmers benefitted in coordination with Gujrat Green Revolution Company till date. Bund construction on way of Nagmati River could save more than 575 MCFT water quantity which recharged in ground due to which borewell depth decreased by 50-100 Ft in Zarpara, Bhujpur and Navinal Vadi Vistar. Pond Pipeline work at Prasla Vistar Zarpara which increase recharge capacity more than 25% in 100 hector area. Check dam gate valve construction at Bhujpur which controlled more than 350 MCFT water to go into sea and get recharged current year. With the objective of to preserve the rainwater to reduce the impact of salinity and recharge the ground water (the main source of water) to facilitate the Agricultural activities as well as for drinking water. Narmada Water Resources, Water Supply & Kalpsar Dept., (WRD)1 has been implementing various salinity



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				While the individual industries in the study area will continue to undertake ground water	All Concerned Stakeholders, District Administratio n and CGWB*	Continual Process	ingress prever canal project, implement above the project is Under this proving 180 villages with this will sign ground water of APSEZ (9 Local (5 Locations – sampling and of to the regulator	Govt. out 820 at var eject ab iiii be b ificantly esource ations – quarte eports ory auth	of Gujar O Km stret ious stage out 112,00 renefitted or reduce es in the re half yearl rly) is carry of the sam orities on	at has posted that has posted the pression. by) & Adani ying out gree are being regular base ound was endowed the pression out green and was endowed the pression out green are being regular base ound was endowed the pression out the pression o	roposed to er canal and ementation. In about of the contract on the Power Ltd. Tound water g submitted sis.
				quality monitoring as per the			as below. Nos. of Location	on: 09	Min	Max	A
				environmental							Average
				clearances			рН @ 25 ° С		7.13	8.41	7.83
				issued for the			Salinity	ppt	0.90	17.64	3.98
				respective			Oil & Grease	mg/L	BDL(MD L:2.0)	BDL(MD L:2.0)	BDL(MDL: 2.0)
				projects, a regional level ground water			Hydrocarbon	mg/L	Not Detecte d	Not Detecte d	Not Detected
				conservation			Lead as Pb	mg/L	0.01	0.02	0.02



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				action			Arsenic as As	mg/L	BDL(MD L:0.01)	BDL(MD L:0.01)	BDL(MDL: 0.01)
				committee can			Nickel as Ni	mg/L	0.09	0.15	0.10
				be formed under the guidance of state ground			Total Chromium as Cr	mg/L	Not Detecte d	Not Detecte d	Not Detected
				water board and district			Cadmium as Cd	mg/L	0.03	0.88	0.15
				Administration.			Mercury as Hg	mg/L	BDL(MD L:0.001)	BDL(MD L:0.001)	BDL(MDL: 0.001)
							Zinc as Zn	mg/L	0.06	0.11	0.09
							Copper as Cu	mg/L	0.08	0.11	0.09
							Iron as Fe	mg/L	0.12	0.61	0.26
							Insecticides/ Pesticides	µg/L	Absent	Absent	Absent
							Depth of Water Level from Ground Level	mete r	1.95	2.25	2.11
											Detection Limit Detection Limit
							Approx. INR environmental 2024-25, which monitoring for	monit ch also	oring acti	vities duri ambient	ng the FY
							The freshwater SEZ is being sa are encouraged the permission	tisfied l d to mo	through AF nitor grour	PSEZ. All th nd water qu	e industries Jality as per



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							As mentioned above, presently, APSEZ has formed Internal Environment Monitoring Committee, involving Officials of APSEZ, Adani Power Limited and other member units, having role and responsibilities as defined above. APSEZ will co-operate and comply with the directions from concerned regulatory authorities for ground water management.
8	Waste Manager	ment					
8.	Solid waste will be generated from industrial activities of APSEZ and other permitted facilities in the study area including Mundra town. These wastes would contain	Level-2	APSEZ has been adopting Zero waste Initiatives and the entire waste generated from existing operations is segregated and disposed to recycling vendors, thereby APSEZ has achieved zero landfill	APSEZ will continue to adopt Zero Waste Initiative and wastes will be segregated at source and disposed to various recycling vendors, coprocessing in cement plants. This initiative helps not only to reduce the waste to landfill significantly, but also to recycle	APSEZ	Continual Process	Presently APSEZ has implemented Zero waste Initiatives as per 5R (Reduce, Reuse, Recycle, Recover & Reprocess) principles of waste management. At present, APSEZ has developed material recovery facility for 6.0 TPD capacities. A well-established system for segregation of dry & wet waste is in place. All wet waste (Organic waste) is being segregated & utilized for compost manufacturing and/or biogas generation for cooking purpose. The compost is further used by in house horticulture team for greenbelt development. Whereas dry recyclable waste is being sorted in various categories. Presently manual sorting is being done for sorting of different types of solid waste. Segregated recyclable materials such as Paper, Plastic, Cardboard, PET Bottles, Glass etc. are then sent to respective recycling units, whereas remaining non-recyclable waste is bailed and sent to cement plants for Co-processing as RDF (Refused Derived Fuel). The



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	recyclable		status as on	the materials			same practice will be continued in future also. APSEZ
	material,		date.	there by avoiding			has also been recognized for Zero Waste to Landfill
	constructio n debris,			ecological			certification from reputed organization.
	n debris, organic			impacts.			APSEZ, Mundra is certified for Zero Waste to Landfill
	waste, inert						management system (Certificate No.:
	material and						CII/ZWL/2025/001) by Confederation of Indian Industry
	e-waste etc.						(CII). (valid up to 22.12.2027). The copy of certificate is
	In the						attached as Annexure – 14 .
	absence of						
	any						APSEZ is being done proper solid waste management
	organized						in his operational area with 5R principle as per Waste
	source						Management Plan.
	segregation						
	programs						
	and material						
	recycling						
	strategies						
	and infrastructu						
	re facilities,						
	these						
	wastes will						
	enter into						
	environmen						
	t and would						
	pose long						
	term health						



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	impacts.						
8.2	Considering an average solid waste generation of 0.25 Kg/person/d ay, the estimated solid waste from facilities within APSEZ will be in the order of 100 TPD (36,500 TPA).	Level-2	APSEZ has made a provision for central waste management facilities within the existing site based on the future needs. As part of the Zero Waste Initiatives, no landfill facilities will be installed at APSEZ.	The existing waste segregation and material recycling facilities will be augmented to dispose safely the wastes generated from APSEZ areas. Solid Waste Management Program shall be adopted and implemented as per Municipal Solid Waste Management Rules 2016 and Construction Waste Management Rules 2016 and Construction Waste Management Rules 2016	APSEZ	Continual Process	Industries located within the SEZ area are also complying with the waste management rules stipulated by statutory authorities and same is also being confirmed by APSEZ as well SPCB on regular basis.
				Solid Waste			
8.3	About 35 TPD (13,000	Level-2	As per the MSW Rules	Management Program shall be	All Industries	Continual	



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	TPA) of solid waste would be generated from the proposed industrial areas located outside the APSEZ area.		2016 all the industrial facilities and SEZs are required to adopt waste segregation facilities at the respective properties and non-recyclable waste shall be disposed to landfill sites.	adopted and implemented as per Municipal Solid Waste Management Rules 2016 and Construction Waste Management Rules 2016		Process	
9	Ecological aspe	cts (terresti	rial and marine)				
9.	About 1576 ha of shrub forest land contiguous	Level -1	It is noted that the designated forest land is free from any native	APSEZ has approached concerned authorities for diversion of designated forest land.	APSEZ/State Forest	Long Term	Stage – 1 Forest clearance granted for diversion of 1576.81 Ha Forest land. Compliance of stage-1 forest clearance is process. After getting EC & CRZ Clearance, Stage-2 Forest clearance will be obtained. APSEZ has applied for getting EC & CRZ clearance for SEZ / Industrial Park in 1576.81 Ha Forest land.



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1	to APSEZ area is applied for land diversion for various developmen tal activities. This might have certain level of changes in the biodiversity in the study area.		vegetation and comprises of Prosopis juliflora. It is also noted that no endangered species are present at the shrub forests that are applied for land diversion. It is also noted that no forest produce is reported from this designated forest land parcel due to lack of economic importance	compensatory afforestation plan shall be adopted based on the recommendation s and directions of the concerned authorities. Due to adoption of compensatory afforestation program through a scientific manner, the overall ecological footprint in the district will be increased. Due to plantation of native tree species as part of greenbelt development, the overall biodiversity of the region will increase	Department*		ToR accorded by MoEF&CC on 30.11.2021 and draft EIA is being carried out through NABET accredited consultant. Recently, Public Hearing (PH) has been conducted by RO-GPCB, Gandidham dated 27.03.2025. PH proceeding submitted to MoEF&CC, Delhi on 16.04.2025.



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			of plant species	considerably when the project			
			reported in	is fully			
			the shrub	developed.			
			forest.	3373.3933.			
			It is also				
			noted that				
			no tribal				
			lands are				
			located in the				
			designated				
			forest land				
			parcel.				
			Hence there				
			will not be				
			any change				
			in biodiversity				
			due to the				
			proposed				
			diversion.				
			No				As per study conducted by NCSCM in 2017, mangrove
	0.0		development				cover in and around APSEZ, Mundra has increased from
	Mangrove conservatio		activities will be	Magazava			2094 Ha to 2340 ha (as compared between 2011 to 2017). The analysis has shown an overall growth of 246
9.	n areas are	Level -1	undertaken	Mangrove footprint and	APSEZ	Continual	ha. The cost for said study was INR 3.15 Cr.
2	located	FEAGI-1	within	health status	AF JLL	Process	1.5. The 303c for 3010 3000, was living 5.15 of.



S. Identified environments I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
adjacent to the APSEZ area. Accidental discharges of industrial effluents into the marine environmen t would pose certain ecological risk.		mangrove conservation areas. APSEZ has taken up large scale mangrove afforestation activities in an area of more than 2800 ha at various locations across the coast of Gujarat state in consultation with various organization s The Adani Foundation introduced 'Mangrove Nursery Developmen	shall be monitored annually			 NCSCM (MoEF&CC promoted Government Agency) study on comprehensive and integrated plan for preservation and conservation of mangroves and associated creeks in and around APSEZ in year 2016-17. The cost of said study was 3.15 Cr, which was incurred by APSEZ. As a part of mangrove conservation plan, APSEZ has done following activities. a. Monitoring of mangrove distribution in creeks in and around APSEZ and shoreline changes in Bocha island through NCSCM, Chennai. The cost of the said study was INR 23.56 Lacs incurred by APSEZ. b. Tidal observation in creeks in and around APSEZ – The cost of the said activity was INR 1.0 Lacs incurred by APSEZ. c. Algal & Prosopis removal from Mangrove area - The cost of the said activity was Rs. 150000 during FY 2024-25. The algal removal report is attached as Annexure – 10. d. Awareness of mangroves importance in surrounding communities & Fodder support - The expenditure for fodder supporting activities was approx. 410.48 Lacs during FY 2024-25, which was incurred by APSEZ. This is activity is being done on continuous basis as a part of CSR activity.



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			t and				Summary of	f Conservatio	on of mangro	ves:	
			Plantation' scheme in the area as				Mangrove mapping Year	Monitoring Agency	Mangrove cover total Area (Ha.)		ove cover ncreased
			an alternative							Нас.	%
			income				2011		2094	-	-
			generating activity for the people of				2011 to 2016-17	NCSCM	2340	246	11.75%
			the region.				2017 to 2019 till March	NCSCM	2596	256	10.94%
							2019 to 2021 till March	GUIDE	2723	127	4.89%
							Total		2723	629	
							system in a 2021 (2723 As a part of mangrove	all increase in nd around A Ha) is 629 H of GCZMA reconservation following ac	PSEZ from 2 a (30%). ecommendat n action p	011 (20 ions an	94 Ha) to



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							Sr	Recommen dations	Compliance
							N o.		
							1.	Mangrove mapping and monitoring in and around APSEZ	 APSEZ entrusted NCSCM, Chennai to carry out Monitoring of mangrove distribution in creeks in and around APSEZ and shoreline changes in Bocha island. As a part of this study, overall growth of mangroves in the creeks in and around APSEZ was assessed comparing Google earth images of 2017 & 2019 and it is observed that there was increase in mangrove cover between March 2017 and September 2019 to the extent of 256 Ha, which is about 10.94%. This suggests that the mangroves and the tidal system in the creeks remain undisturbed over this period. Analysis of data between categories indicated that there was an increase in dense



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							mangroves and also conversion of scattered to sparse which also shows that the growth of mangroves in a progressive direction. Hence, there is an overall growth of mangroves in creeks in and around APSEZ, Mundra is 502 Ha between 2011 and 2019. The cost of the said study was INR 23.56 Lacs incurred by APSEZ. According to GUIDE Mangrove monitoring study report November 2023 (the report was submitted during the last compliance report submission Apr'23 to Sep'23),), the distribution of mangroves in Kotadi, Baradi mata, Navinal, Bocha and Khari creeks as well as in the Bocha island was studied using LISS IV satellite images for the duration of March 2019 to March 2021. The mangrove cover in the creeks in and around APSEZ showed a positive trend from March 2019 to March 2021, with an overall



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							increase of 52.79 ha (1.9%) compared to the cover during the year 2019. The total mangrove cover during 2019 was 2670 ha which has increased to 2723 ha during the year 2021. • Hence, overall increase in mangrove cover area in creek system in and around APSEZ from 2011 (2094 Ha) to 2021 (2723 Ha) is 629 Ha (30%). • The cost of the said study was INR 23.60 Lacs incurred by APSEZ. Summary of Mangrove mapping and monitoring (from 2011 to 2021): Mangrov e cover cover area increased lincreased Hac. % Wangrov Hangrove Area (Ha.) Hac. % 2011 2094



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									2011 to 2016-17	2340	246	11.7 5%
									2017 to 2019 till March	2596	256	10.9 4%
									2019 to 2021 till March	2723	127	4.8 9
									Total	2723	629	
							2.	Tidal observatio n in creeks in and around APSEZ	Baradima Khari guidance • The ob indicate experien adequate mangrov • The cos was INR	tions at to 2017 ata, Navina creeks to compare the total to the feet.	loca in al, Boch under A. dal ra the c tidal ra grow	ations Kotdi, na and the anges creeks anges, th of
							3.	Removal of Algal and Prosopis growth from	 Algal a monitori around algal end 		one ir area was foi	and and und in



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							mangrove areas which has been removed manually. The cost of the said activity was Rs. 150000 during FY 2024-25. The algal removal report is attached as Annexure – 10. 4. Awareness of mangroves importance e in surrounding communities g communities s Camps/activities created in the community regarding importance of mangroves. Adani Foundation provides Good Quality dry and green fodder to 24 Villages. Project is covering total 15005 Cattels and hence enhancing cattle productivity. Dry Fodder 15,74,250 Kg Green – 51,66,805 Kg. Awareness of mangroves importance in surrounding communities & Fodder support - The expenditure for fodder supporting activities was approx. 410.48 Lacs during FY 2024-25, which was incurred by APSEZ.



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							Grass Land development: 213 acres of gauchar land has been cleaned and allocated for Grass land development with strong Community Contribution and Mobilization. Other than this dedicated security guard with gate system deployed by APSEZ across the coastal area and no any unauthorized persons allowed within coastal as well as mangrove areas. APSEZ has celebrated the International Day for the Conservation of the Mangrove Ecosystem on 24th to 26th July 2024 to raise awareness of the importance of mangrove ecosystems as "a unique, special and vulnerable ecosystem". The report for the same was submitted during the compliance report submission for the period Apr'24 to Sep'24. Refer CSR report attached as Annexure – 2.



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							presently APSEZ has awarded the work order to NCSCM, Chennai vide order no. 4802055905, dated 24/09/2024 with cost 45.87 Lacs for mangrove mapping in and around APSEZ March 2021 to March 2023. NCSCM has conducted ground truthing during 5 th to 7 th Mar'25 & 22 nd to 27 th Apr'25 in and around our APSEZ area for mangrove mapping & study work has been completed. Final Mangrove mapping report is awaited from NCSCM.
9.3	Outfall from the thermal power plants desalination and CETP would pose certain level of impact on the marine environmen t.	Level-1	A detailed marine hydro-dynamic and dispersion modelling of the study area indicates that the background temperature and salinity at mangrove conservation area will not increase	All approved marine outfalls shall be monitored for salinity, temperature and other designated parameters as per consent to establish issued by GPCB. Existing marine enviro nmental monitoring program shall be continued.	APSEZ and Concerne d Industry	Continual Process	Presently marine monitoring is being carried out by the Adani power plant at the marine outfall locations and reports are being submitted to the concerned authorities on regular basis. APSEZ is carrying out Marine monitoring once in a month at 9 locations in deep sea by NABL and MoEF&CC accredited agency namely M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi. The analysis reports of the same are being submitted to the concerned authorities on regular basis. Adani power plant is also doing marine water quality at 5 locations (2 locations at outfall location) in deep sea by NABL and MoEF&CC accredited agency namely M/s. Unistar Environment & Research Labs Pvt. Ltd. The analysis reports of the same are being submitted to the concerned authorities on regular basis. The summary of marine water quality is shown above.



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			from the prevailing background				The compari					tween CIA
			levels as the outfalls are					11-11	M	ax		Min
			located far				Parameter	Unit	CIA	Present	CIA	Present
			away.				Temp. Salinity	°C ppt	36.4 29.5	25.4 36.5	35.2 29	24.4 35.8
			respective power plants in the study area have been monitoring the marine water quality status on monthly basis for the stipulated environment al and ecological parameters.				As per above deviation in indicates the	the cor	centrati	on of par	ameter	
9. 4	Terrestrial Ecology:	Level-1	APSEZ has developed greenbelt in an area of	The compensatory afforestation	APSEZ	Continual Process	APSEZ has of which is to plantation/g SEZ Industri	aking [.] reenbel	measure t develo	es/ steps opment. A	for APSEZ,	terrestrial Individual



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	Study area doesn't have any notified national parks or ecological sanctuaries. Since the area falls under dry deciduous shrubs. Due to scanty rains in the area, the overall natural greencover/vegetat ion in the area is very small.		550ha as against the committed area of 430ha. A dedicatenurs ery is set up to promote plantation. APSEZ have undertaken a plantation with about 9.6 Lakh fully grown trees.	area to be monitored annually to check the survival rate of the plantation.			approx. 700 Ha. area as greenbelt within the APSEZ area including SEZ industries & Adani Power Plant. Dedicated horticulture department is maintaining and monitoring the terrestrial green belt development on regular basis to check the survival rate of plantation. Budget for Horticulture Department for the FY 2024-25 is to the tune of INR 831 lakh. Out of which, Approx. INR 570 lakh has spent during the year FY 2024-25.
10	Socio- economic aspects		•				
10.1	Population growth in the Mundra region was	Level-1	Dedicated townships are developed within APSEZ	The existing townships will be expanded to accommodate	APSEZ	As and When Required	APSEZ has developed two townships (Shantivan and Samudra) accommodating 4677 households and associated infrastructure facilities. Accommodation is made available for all interested employees working



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	reported to be in the order of 85% during the past decade (2001-2011). Further expansion of the urban area could be possible due to induced economic growth in the region. Increase in population will have a additional need for public infrastructure in the region.		area with necessary community infrastructure s such as hospital, school, recreational facilities, sewage treatment and waste collection facilities. Adani Foundation has been undertaking various CSR programs under the principal themes such as education, community health, sustainable livelihood and rural infrastructure.	about 4lakh people when the project activity is fully developed.			within Adani group & SEZ industries. Out of which 93.65 % Occupancies are accommodated within the townships and rest are available for employees working within APSEZ. At present 61 nos. of industries (processing & non-processing) are operating within the SEZ. Township facilities are also made by SEZ industries within Mundra town for their employees having basic infrastructure facilities and requirements. Most of the employees working in SEZ industries are residing in Mundra township having all basic requirements and associated facilities. The existing social infrastructure facilities are adequate to accommodate the people considering present APSEZ development. The existing townships with associated facilities will be expanded as per requirement. Other infrastructure facilities have been developed for people are as follows. • Multi-Specialty Hospital • School • Commercial complex • Religious place APSEZ is actively working with local community (including fishermen community) around the project area and provides required support for their livelihood and other concerns through the CSR arm – Adani



S. 6 No. I i	Identified environmenta I and social impacts for the fully developed scenario (year 2030)	Type of Impact & Magnitud e1	Environment management plans adopted or being adopted by APSEZ as per permits, clearances, applicable regulations and guidelines etc.	Additional Risk Mitigation Measures/ESMP	Responsible agency	Timeframe for implementation	Compliance
			About Rs. 97 Cr has been spent on various CSR activities in the Mundra region since 2010. Similar community development programs (based on need based assessment) will be continued in future as well with allocation of appropriate budget.				Foundation in the main five persuasions is mentioned below. Community Health Sustainability Livelihood – Fisher Folk Education Rural Infrastructures Skill Development Adani foundation has spent approx. INR 10079.78 lakhs from April – 2018 to March - 2025 for CSR activities which also includes cost of rural infrastructure projects. Major works carried out since April 2018 as a part of CSR activities are as below. Infrastructure development activities during FY 2024-25: COMMUNITY INFRASTRUCTURE DEVELOPMENT PROJECTS & ITS BENEFICIARIES Renovation of Aanganwadi, Goyarsama Village – 40 beneficiaries Construction of Pipe Culvert, Old Bandar Fisherman Vasahat - 1200 beneficiaries Open Shed & Community Hall, Sukhpurvah Mundra – 1200 beneficiaries



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							 Open Shed at PTC College, Mundra – 160 beneficiaries Renovation of High School, Zarapra Village – 550 beneficiaries Open Shed at Mokha Parking – 2000 beneficiaries Canal Cleaning & Chamber Renovation, Bhadreswar Village – 120 beneficiaries Renovation of Approach Road, Shekadiya and Luni – 1200 beneficiaries R.O. Plant Installation, ITI Mundra & Sanjivni School – 800 beneficiaries Paver Block Floor Work, Wandi Village – 2000 beneficiaries COMMUNITY INFRASTRUCTURE DEVELOPMENT KEY COMMUNITY INFRASTRUCTURE DEVELOPMENTS: Educational Facility Renovations High School, Zarapra: 550 students benefited. Aanganwadi, Goyarsama: 40 students benefited. Kasturba Girls Hostel, Desalpar: 150 girls benefited. Infrastructure Improvements: Pipe Culvert, Old Bandar: 1200 people benefited.



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							 Box Culvert & CC Road, Zarpara: 12000 people benefited. Approach Road, Shekadiya & Luni: 1200 people benefited. Approach Road, Vadi Vistar: 800 farmers benefited. Water Management Projects: Percolation Well, Mota Bhadiya: 80 farmers benefited. Percolation Bore Cleaning, GPVC Villages: 3150 farmers benefited. Pond Deepening & Road Cleaning, GPVC Villages: 6KM cleaned. Sanitation and Health Initiatives: R.O. Plant, ITI Mundra & Sanjivni School: 800 students benefited. Toilet Block for Disabled, GPVC Villages: 5 families benefited. Painting & Office Work, CHC Mundra: 14600 people benefited. Last FY 2023-24 infrastructure development activities: 377 - AC Roof sheet support to Fisherfolk Vasaha 1700+ Benefited. 2 Development of Common Gathering flooring
							work – 4000+ Benefited. • 195 Stall – Vegetable market– 900+ Benefited.



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							 Solar Panel System at Mundra – 600+ Benefited. Maintenance, Fencing & Material Support - 30+ Benefited. Renovation of Shed at Shekranpir Bhopavandh - 2000+ Benefited. Renovation Check dam and CC road work at Nani Khakhar – 200+ Benefited. Renovation of High School at Zaarapa – 2200+ Benefited. Construction of Pipe Culvert – 400+ Benefited. Construction of chain-link fencing at Mangra village – 300 people benefited. Gaushala Shed at Zarapara village – 400 cettle benefited. Renovation of approach road, Zarpara – benefiting 400 villagers. Renovation of Civil and Electrical Work at ITI, Mundra - 500 students benefited. Construction of 21 Borewell Recharge in Nagmati River - 150+ farmer benefited. Check dam Desilting and restoration at Nana Bhadiya – 100+ farmers benefited. Renovation of Check dam at Pavadiyara village - 300 people benefited. Renovation of Balwadi at Juna bandar & Luni bandar. 185 RRWHS construction is ongoing in various villages - will benefit 1300+ residents.



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							 Supply & installation of Solar panel (3.25 KV) at CGP, Mundra – benefiting 1200 people. Development of Model Farm in Zarpara, Siracha & Mangra – Benefiting 300 people. Renovation of approach road at various fisherfolk vasahat. Similar community development programs (based on need based assessment) will be continued in future as well with allocation of appropriate budget.
10.	The overall sex ratio was found to reduce by 28% in the Mundra taluk (study area) during the period 2001 - 2011. This could be attributed to increase in influx of working men in the region due to rapid economic development.	Level-2	Adani foundation is taking up several girl child education programs as part of CSR activities to create awareness about girl child protection.	Suitable regional level awareness programs on the girl child protection and encouragement programs in line with state and national policies shall be adopted under Corporate Social Responsibility programs in association with district authorities.	APSEZ, Other development projects and District Administration*	Long Term	Major works carried out since April 2018 as a part of CSR activities to create awareness about girl child protection are as below. • The Adani Foundation provided scholarship support to motivation and encouragement of fishermen boys and girls for higher education under this program. We extend 100% fee support to female candidates and 80% to male candidates.". Student Benefitted Under Uthhan Project during the FY 2024-25: • Enriched reading corners to develop reading habits • Library books were issued twice a month, and a dedicated reading corner was established in each school to enhance accessibility.



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	Similar trend might continue in future due to induced economic growth in the region.						Additionally, over 1,000 books and various magazines were provided 2,09,640 Books issued between students Progressive Students: Strengthening foundational literacy, numeracy and skills A total of 6,540 students from Class 3 to 7 were assessed in reading, writing, and math skills, with 2399 students identified as needing additional support. Targeted interventions helped 1,520 students successfully integrate into regular academic programs Utthan's Impact: A Data-Driven Overview of Utthan Initiatives Distribution of sports kits, music kits, TLM kits, and stationery kits. to 12K+ Students Value education is imparted through films that teach important life lessons and moral values to 1K+ Students Provide students to engage in fun and educational activities, fostering their holistic development. 8K+ students. Children toy foundation kit to 5k+ Students Building as Learning Aid (7K+ Students): BALA transforming school spaces into vibrant



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							learning environments through creative artwork. Environmental Education Project: 80 Schools, 12000+ Students Adani Competitive Coaching Center: 27 School, 5000+ Students Oasis Reading workshop: 700+ Workshop. 20000+ Students Capacity building of teachers: 150 Teachers, 16000+ Hours Key finding of third-party assessment: The Utthan program assessment employed a quasi-experimental, mixed-methods design with pre- post comparisons and stratified random and purposive sampling to evaluate student outcomes, program impact, and sustainability. The sample included 288 intervention students, 96 non- intervention students, 53 Sahayak, 30 head teachers, 30 SMC members, 30 parents, and community members, with data collected through FGDs, SSIs, and KIIs. Univariate and bivariate analyses were conducted, and field notes were transcribed to identify themes. These themes were aligned with objectives and compared to past data to uncover discrepancies and analyze their causes.



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							 More than 90% of the students have achieved proficiency in reading, writing and numeracy skills in Utthan Schools. Utthan sahayak as catalyst: The introduction of Saha yaks (teacher assistants) ensures personalized student support and bridges gaps between schools and families, fostering greater parental involvement. Sahayak mentioned improvements in their classroom management practices, strong parent and community management and understanding of student child development 97% of students reported improved confidence in leadership and communication and 97% of students in Utthan schools have mentioned interest in attending school. Teachers' capacity building: Comprehensive teacher training programs enhance instructional quality, equipping educators with tools to deliver FLN-focused curriculum effectively. Community engagement through home visits and mothers' meetings, the project strengthens parental accountability and participation, directly influencing students' motivation and performance.
							 Holistic Development & Achievements Academic and Institutional Developments: Board exam results showcased excellent



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							student performance, with targeted remedial sessions introduced for continuous improvement. The Housekeeping Training Program (May 28) emphasized cleanliness and hygiene maintenance among staff. Teacher Development and Training: Teacher Capacity Building Program (June 6) enhanced instructional strategies and curriculum planning. NABET Accreditation Training (June 12) ensured compliance with national educational standards. Technological Advancements: Inauguration of a New Computer Lab (Sept 27) enhanced digital learning opportunities. Al and Google Gemini Training (Nov 16) prepared educators for modern teaching methodologies. Cultural and Co- Curricular Activities: World Book Day (April 23) promoted reading culture through storytelling and book exhibitions. International Yoga Day (June 21) emphasized mindfulness and physical wellness. Student Achievements: SVS Science Exhibition (Oct 4): AVMB students won first place for their research on screen time and its impact.



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							 District-Level Science Fair (Dec 9-10): Students represented Mundra Taluka with innovative projects. Health and Safety Initiatives: Menstrual Hygiene Awareness Program (June 22) educated girls on personal health and wellness. School-Wide Health Check-Up (July 8) ensured early detection of health concerns. Project Udaan - Inspiring Minds About Project: Under this project, exposure tours are organized wherein school, college students, faculties, employees from corporates are given a chance to visit the Adani Group facilities. Total 408 no. of Schools/Colleges/ Institutes participated. Total 26346 no. of participants participated. About INR 10079.78 lakhs has been spent on various CSR activities in the Mundra region since April 2018 to till March 2025 including cost of community health and education for woman and girl child.
10. 4	Due to economic growth leading to rapid	Level-2	Adani hospitals, Mundra is setup by Adani group near Samudra	APSEZ will explore other possibilities to augment the primary and secondary healthcare	APSEZ	Long Term	Adani hospitals (Multi-specialty), Mundra is having 100 bed facility and same is setup by Adani group near Samudra township. Primary health center and community health center are in place within the Mundra taluka.



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	urbanization, which prompts the need for healthcare facilities in the region. For an influx of 6 lakh people from APSEZ operations and additional 3 Lakh from induced growth by the year by 2030 (fully developed scenario), total hospitals facilities with about 540 beds would be required.		township with a goal to provide primary and secondary health care services to Adani group employees and the local populace of Mundra. The existing 100 bed Adani hospital at Mundra has been catering the services ranging from wellness and preventative care.	facilities in future depending on the growth scenario at APSEZ development.			Other than this Adani foundation is doing various activities as part of community health. The details of FY 2024-25 are as below. * Mobile Heath Care Units and Rural Clinics



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							 General_Health Camp It aims to make quality healthcare accessible to underserved communities by providing free consultations and basic medical services. Doctors conducted health check-ups, including blood pressure monitoring, respiratory assessments, and screening for seasonal illnesses. Patients were also provided with necessary medicines on the spot, ensuring timely treatment and care. Such camps play a vital role in promoting health awareness and addressing common health issues in rural areas where access to healthcare is limited. In the current year 1922 patients benefited though General Health Camp Specialty Health Camp It is organized to support focused medical care to rural communities through consultations from specialists such as gynecologists, pediatricians, orthopedists, ophthalmologists, and physicians. The primary objective is to address critical health issues among women and children, particularly during pregnancy, to prevent maternal and infant mortality. Additionally, Specialty Health Camps are
							organized promptly in response to disease outbreaks in villages, ensuring quick medical support and controlling the spread of illnesses.



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							 In the current year 3217 patients benefited through Specialty Health Camp. Eye Vision Care Initiative This year, Adani Foundation, in collaboration with Vision Spring, has launched a comprehensive Eye Vision Care program to address uncorrected refractive errors and improve eye health in the community. The initiative focuses on students ("See to Learn"), SHG women ("See to Earn"), and APSEZ drivers ("See to Be Safe"), ensuring better education, livelihood, and road safety. It also promotes "Vision for All" across the community. It is a holistic eye care campaign starting from the process of registration to eyeglass dispensing, and cataract surgery support. In the current year 10,000 patients benefited though Eye Vision Care program. Cataract-Free Mundra Initiative To combat vision loss among the elderly, the Cataract-Free Mundra campaign has screened 567 individuals at the village level. Patients identified with cataracts are referred



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							independence and quality of life. In the current year 68 successful cataract operations through Cataract-Free Mundra campaign. ❖ Menstrual Hygiene Awareness Camps • Promoting health and dignity among adolescent girls and women, menstrual hygiene awareness camps are regularly organized in schools and community centers. These sessions focus on educating participants about menstrual health, hygiene practices, and breaking cultural taboos. Sanitary pads are also distributed to encourage proper menstrual care and improve overall health outcomes for women and girls. ❖ Medical Services Data from April 2024 to March - 2025: • Mobile Van − 11066 beneficiaries • Rural Clinic − 2500 beneficiary • Medical Support & Dialysis − 2733 beneficiary • General Health Camp − 1922 beneficiary • Specialty Health Camp − 3217 beneficiaries • Blood Donation Camp − 2902 beneficiary • Cataract Camp − 567 beneficiaries • Eye Vision Care − 10000 beneficiaries • Driver Health Check Up − 7156 beneficiaries



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							 Fodder support to 24 Villages, benefiting 36808 cattle, Dry Fodder Support - 15,74,250 Kg & Green Fodder Support - 51,66,805 Kg Under the Preventive Health Care program, the Foundation, in partnership with the Animal Husbandry Department, organizes regular cattle health camps across 24 villages. These camps provide veterinary check-ups, vaccinations, and treatments for common diseases. Life-saving vaccines, such as those for Foot-and-Mouth Disease (FMD) and Clostridial infections, help ensure long-term immunity and healthier livestock. Additionally, medicines and vaccines are supplied by the Foundation. Cattle vaccinated -14,056 Deworming tablet distributed – 1460 Cattle benefited – 15000+ Previously Conducted Community Health Details: Total Patients Benefitted FY 23-24: -23327 (direct & indirect) by Mobile van and rural clinic 2 financially challenged patients has been supported with Dialysis treatment at 124 Times which added day in their Life. Provided 41,546 medical health services and conducted health awareness camps for 763 High school students.



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							 Cataract-Free Mundra: The initiative is a dedicated effort to eradicate cataract-related vision impairments specially focused on Senior citizen through Meticulous planning as below. Lives Impacted: - 1131 Comprehensive Eye Screenings at Village level Cataract Surgeries to GKGH, Bhuj Post-Operative Care and Follow-up 5 successful Operation Health camp: Specialty camps, Eye checkup camps, Blood donation camp, Anti-tobacco awareness camp, TB screening, and other are conducted in core villages as well as in labour colonies. Specialty health (Gynec, ophthalmic, specialty health (Gynec, ophthalmic, specialty health camp): - 5795 Patients Benefited. General health camp: -1618 Patients benefited. Blood Donation Camp: 1715 people have donated blood. Conducted health programs for students, engaging 763 participants, and held sessions on Personal Health & Hygiene Awareness, addressing critical health issues and promoting overall well-being.



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							 Women's Health: Provided health services to more than 2610 women benefitted through Menstrual & Mental Health Awareness Drive. Dialysis Support: During this year, 2 patients were supported for regular dialysis with 124Times which added day in their Life. Medical Supports: 1007 beneficiary in 35 village. International year of Millets - 2023: To promote millet culture and raise awareness about its benefits in Mundra, we organized a Millet Competition across nine villages. Over 715 women took part in the competition, while 2200 benefited from awareness sessions. Through this initiative, 300 indigenous millet recipes were showcased, highlighting the potential for sustainable and nutritious dishes in our daily diets. Ayushman card facilitation: Ayushman card issued to 5584 for 25 village of 686.50 Cr. health insurance. Preventive health Campaign the Adani Foundation is focusing on providing preventive healthcare to women and adolescent girls, raising awareness of Physical and Mental health issues, promoting healthy behaviors, implementing Menstrual hygiene initiatives and Millet consumption for healthy body. Sample Survey Report 2023-24



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							 55% Never heard about Menstrual hygiene. 60% Are using cloths on regular basis. 36% Had never used sanitary pads. 68% Had no information about UTI. 30% Never used millets in their diet. 60% Never heard about millets or it's benefits. 2222 – Economically Challenged patients have been supported for operation, OPD, IPD, Medicines and lab-test. For Preventive health care General and multispecialty camps Pediatric camp, General Health camps in 7 villages and Super specialist camp which benefitted more than 4690 patients of Mundra & Mandvi Taluka. Cattle Health Camp: Adani Foundation and Animal Husbandry department Veterinary Jointly organizing cattle health Awareness and vaccination programs in 24 Villages of our periphery villages with total 18903 cattle benefitted, and 18870 cattle vaccinated. Total 982 cattle owners benefited for Preventive Health Care & Fodder Support Program Present Hospital facilities are adequate to avail the medical treatment for Mundra region considering present development. Other Occupational Health centres, primary health centres and community health centres are also in place in Mundra to take care the people residing in Mundra. Adani group is also operating high



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	Due to rapid		APSEZ has				quality health care services to the people of Kutch at G. K. General Hospital, Bhuj having 750 beds facilities on public private partnership (PPP) model, which is 60 km far from Mundra. APSEZ will explore other possibilities to augment the primary and secondary healthcare facilities in future depending on the future development at APSEZ. Fishermen livelihood development activities during
10. 5	economic development in the region, several employment opportunities can be generated to the local people. When the area is fully developed by the end of 2030, the working population of the Mundra taluk would increase from		been giving preferences to people from Gujarat for providing employment opportunities based on eligibility and skills. In Mundra, special programmes have been conducted by Adani Foundation to enhance the employability of youth from fisherfolk	APSEZ is committed to provide support for fishermen livelihood activities and has submitted a detailed 5 years plan to MoEF&CC with a total budget of Rs.13.5 Cr.	APSEZ	Short Term	FY 2024-25: ➤ WOMEN EMPOWERMENT: Self Help Groups ■ 88 Self Help Groups in coordination with National Rural Livelihood Mission. ■ 920+ Members ■ Over Rs.39 Lacs Saving Amount Corpus Job Sourcing - Govt ■ 11 Women supported for application and process of Gram Rakshak Dal, Bank Sakhi, Bima Sakhi and Professional Resource Person. ■ Average income Rs.7500 Per Month Making SHG Self Reliant ■ 16 SHG are making strides towards self-reliance. Various handicrafts, dry and fresh food making, stitching, tie and die etc.



S. environmenta No. I and social impacts for the fully developed scenario (year 2030)	Magnitud plans a or bein adopte APSEZ permits clearan applica regulat and gui etc.	ement dopted Measures/ESMP d by as per s, aces, able cions idelines	Responsible agency	Timeframe for implementation	Compliance
current level of 55,000 to as high as 4,00,000, which will be 45% of the total envisaged population in Mundra Taluk by the end of 2030.	communication communication communication communication communication communication communication communication contects contents contects contects contects contects contects contects contents contects c	ment several od shave liced by ani Skill pment sentres, can join t onal g for a r of cal and chnical ustrial g se is set PSEZ, a, to ce the rels of			 175+ women - Monthly average income @ Rs.7000 of each member/Month Social Empowerment 4 Livelihood Enhancement Training through RSETI Financial support for business set up Legal rights and domestic violence workshops Family counselling for Job Sourcing Job Sourcing - Private Coordination for Job by Unnati Portal with Adani Group company companies, Britania, B Medical and Emphazer company 758 Women supported till date for job sourcing. Average income Rs.10,800 Per Month "CHETNA" - INITIATIVE WITH GENDER DIVERSITY Adani Foundation, in collaboration with Unnati Portal and Adani Solar, launched an initiative to provide equal opportunities for employment and self-development to women from Kutch. Till Now 614 women from Kutch are successfully employed at Adani Solar, marking a significant step towards their economic empowerment and fostering gender diversity in the workforce.



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			youth to maximum possible extent.				 Highlights of the Work done by our SHG: Sathwaro'24 - Powering Art, Empowering Artisans: 3 women SHGs from Adani Foundation Mundra participated in the prestigious Sathwaro Mela at the Belvedere Club, Ahmedabad, showcasing Mud Art, Bead Art, and Soof Art, along with two artisans specializing in Rabari and Doori work, achieving an impressive turnover of Rs.1,30,000/ New Stitching Centre - Livelihood opportunities for local women: In Vandh Village, by providing advanced stitching and embroidery training, the new stitching center empowers women with skills and employment. Equipped with 11 modern machines, women are producing 5,000 bags, gaining financial independence and professional confidence. Women empowerment initiative: Adani Foundation is empowering rural women through skill training, exposure visits, and SHG formation, enabling them to achieve financial independence and entrepreneurship. Skill Training: Stone Dust Art Training Mud Art Training Beauty & wellness Training. 100+ Local women empowered Exposure Visit: Visit to Welspun Stitching Centre for women to learn about stitching enterprises New SHG Formation:



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							 Madhav Saheli" a Food service SHG "Gopinath Saheli" a Tailoring SHG "Suidhaga" a Tailoring SHG "CELEBRATED INTERNATIONAL WOMEN'S DAY WITH 1,000 LAKHPATI DIDIS: On 5th March, Adani Foundation celebrated the strength and resilience of women by marking International Women's Day with 1,000 Lakhpati Didis. The event highlighted the Foundation's ongoing efforts to empower rural women through meaningful livelihood opportunities. Over 614 women have been connected with job opportunities at Adani Solar, while 850+ women entrepreneurs received support to grow their businesses. MENSTRUAL HYGIENE AWARENESS: Adani Foundation is dedicated to educating and empowering rural girls and women from marginalized communities about menstrual health. We aim to break negative social stigmas around menstruation and improve their overall wellbeing. 61 Villages covered 8300+ School girls & women participated till now



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							EMPOWERING FISHERFOLK COMMUNITIES THROUGH EDUCATION: PERSISTENT EFFORTS FOR FISHERMAN DEVELOPMENT: Educational Kit Support − 686 beneficiaries Fisherman Shelter Support − 273 beneficiaries Vehicle transportation Support − 1368 beneficiaries Cycle Support to high school going students − 111 beneficiaries Scholarship Support − 648 beneficiaries Youth Employment − 494 beneficiaries Linkage with Fisheries Scheme − 195 beneficiaries Ramatotasav Community Engagement − 3534 beneficiaries Man-Days mangrove plantation − 56,523 beneficiaries * Scholarship Support: To uplift financially challenged communities, we extended scholarships support of Rs. 3,58,765 to 35 students, enabling them to pursue higher secondary and technical education. This support is helping break the



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							cycle of poverty and create a brighter future for these students and their families.
							Vehicle Transportation Facilities:
							 Ensure seamless access to education for 121 school-going children from Modhva, Tragadi, and Zarpara Bandar Fisherfolk Students in reaching the nearest School, eliminating barriers to regular attendance. Additionally, personal cycle support to 5 fisherfolk students.
							❖ Job opportunity
							 Acting as a bridge between industries and fisherfolk youth, the Adani Foundation facilitated job placements for 30 fisherfolk as RTG operators, in the HR department, and as supervisors in APSEZ companies. In the APSEZ area and colony, 45 fisherfolk youth have been offered professional painting roles. To ensure they are skilled for the role, they underwent comprehensive training in partnership with Asian Paints. This initiative has enhanced their livelihoods and provided sustainable employment opportunities.
							Awareness camp on Menstrual health:
							A menstrual health awareness camp was organized for 200+ women from the fishing communities of Modhva and Tragadi villages. The program focused on educating them about



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							menstrual hygiene, PCOD, and menopause management. It promoted healthy practices, offered guidance on managing related health issues, and distributed sanitary products to support their overall well-being. ◆ Potable water Distribution: • Providing access of potable Drinking water Facilities to Nine fisherfolk vasahat on Daily bases, either By Water tanker or Linkage with Nearest Gram panchayat. • 5000+ Fisherfolk Population are getting benefit > SUSTAINABLE LIVELIHOOD - AGRICULTURE: ◆ BIOGAS PROJECT • In our ongoing efforts to promote sustainable and eco-friendly farming practices, we have successfully registered 863 farmers from five different talukas in the Kutch district. Each registered farmer will receive financial support of ₹9,000 for the installation of biogas plants on their farms. This initiative aims to provide farmers with a renewable source of energy, reduce dependency on conventional fuels, and improve overall agricultural productivity. • Benefits of Biogas:



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							 Renewable Energy Source: Biogas is a sustainable and renewable energy source that reduces dependence on fossil fuels. Cost Savings: Farmers save on fuel expenses as biogas can be used for cooking, heating, and electricity generation. Waste Management: Biogas plants efficiently manage agricultural waste by converting it into useful energy. Environmental Impact: Biogas reduces greenhouse gas emissions, contributing to climate change mitigation. Soil Health: The by-product, known as digestate, is a nutrient-rich organic fertilizer that enhances soil fertility. Improved Livelihoods: Biogas provides farmers with additional income and energy security, improving their overall quality of life. Biogas benefit Key Highlights Total Farmer Registered - 863 Farmers Financial Support for each farmer - Rs. 9000 Geographical coverage in Kutch - 6 Talukas DRIP IRRIGATION - ENHANCING LIVELIHOODS IN KUTCH: The Drip Irrigation Initiative by Adani Foundation promotes efficient water use in farming by providing financial support to



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							farmers for installing drip systems. It helps conserve water, improve crop yield, and encourage sustainable agriculture in Kutch. In 2024-25, Adani Foundation supported sustainable water management in Kutch by Promoting drip irrigation across 490 villages in Abdasa, Lakhpat, Mandvi, Mundra, and Nakhtrana talukas. Covering a total area of 2,074,53 hectares, the initiative benefited 1,041 farmers. This effort enhanced irrigation efficiency, boosted agricultural productivity, and contributed to water conservation and ecofriendly farming practices in the region. Natural Farming As part of our commitment to sustainable agriculture, we have focused on promoting natural farming practices to conserve soil health and enhance environmental sustainability. Till Date 2,275 Farmers trained in Natural Farming 226 Farmers successfully transformed to 100% Natural Farming 857 Farmers linked with GOG to support cattle welfare scheme



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							 Organized an annual Green Carnival, providing farmers with a dedicated marketplace to sell their organic produce directly to consumers. This event is hosted by our employee company and attracts many buyers interested in organic products. Sales Achievements This year, the Green Carnival was a resounding success, with farmers selling a total of 16,241 kg of organically grown vegetables and fruits at the event. Achieved Rs. 6,49,640+ Total revenue. APSEZ is carrying out various initiatives specific to the Fisherfolk community which includes: Vidya Deep Yojana Vidya Sahay Yojana – Scholarship Support Adani Vidya Mandir Fisherman Approach in SEZ Machhimar Arogya Yojana Machhimar Kaushalya Vardhan Yojana Machhimar Sadhan Sahay Yojana Machhimar Awas Yojana Machhimar Shudh Jal Yojana Sughad Yojana Machhimar Akshay kiran Yojana Machhimar Suraksha Yojana Machhimar Suraksha Yojana Machhimar Syachhata Yojana Bandar Svachhata Yojana



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							These initiatives are planned for the period 2016 – 2021 with a committed expense of INR 13.5 Cr as submitted earlier in detail in the report namely "Silent Transformation of Fisher folk at Mundra", Till, FY 2024-25 approx. 15.79 Cr. INR, has already been spent in support for fishermen livelihood activities. Further, details regarding the expenditure incurred against the commitment are attached as Annexure – 15 .

ALGAL REMOVAL WORK FROM MANGROVE AREAS

Creek area is regularly observed for checking algal encrustations. On the mangrove recruits & where the algal encrustation is found to be substantial, it is removed manually by deployment of required manpower. This operation is performed during the low tide conditions. The main object is to provide better growing condition for the growth of mangroves. Periodically, spread of Prosopis sp towards the mangrove areas is also observed as this species will compete with mangrove plants for growth.

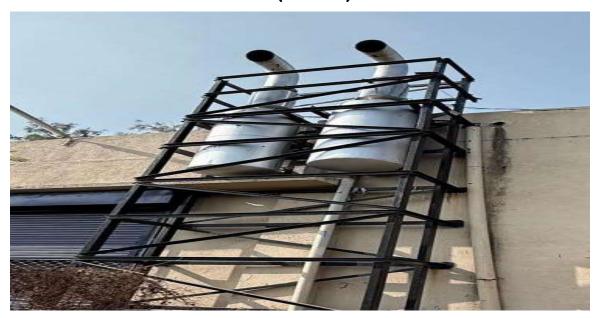
Photographs of removal of algal encrustations:





PHOTOGRAPHS OF INSTALLED RECD ON DG SETS

Adani House (DG Room) - 750 KVA



PUB Custom House - 500 KVA



WTP -CETP: 380 KVA



NORTH GATE SITE - 320 KVA



AIRPORT - 125 KVA & 140 KVA







PARYAVARAN BHAVAN, SECTOR 10-A, GANDHINAGAR - 382010, (T) 079-23232152

(WH-139724)

No. PC/CCA-KUTCH- 582(5)/ GPCB ID-35427/83 2 00 5

Date: 2.4/01/2025

To.

M/s. Adani Port & Special Economic Zone Ltd., (WFDP-West Port)

Survey no. 141,

Navinal Island, Mundra,

Tal: Mundra, Dist: Kutch- 370 421.

SUB :

Amendment in the consolidated consent & Authorization of the Board.

REF

 GCA issued by this office vide order no- AWH- 113458 dated 28/06/2021 valid up to 01/02/2027.

Obtain deemed CTE vide order dated 19/05/2020.

3) Your CCA Amendment Application Inward ID No.320886 dated 07/11/2024.

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 6(2) of the Hazardous And Other Waste (Management and Transboundary) Rules, 2016 & framed under the Environment (Protection) Act-1986, The Board has granted CCA vide order No. AWH- 113458 vide order no. PC/CCA-KUTCH-582(4)/ ID-35427/ 595234 dated 16/07/2021.

The Board has right to review and amend the conditions of the said CCA and its amendment orders. Now, considering your application for CCA amendment inward ID No. 320886 dated 07/11/2024, the said CCA order is amended as below:

- The order shall be read as CCA amendment Order No.: WH- 139724 Date of Issue: 16/01/2025, valid up to 01/02/2027.
- The condition no. 2 of the said CCA is amended as below:

The consent shall be valid up to 01/02/2027 for the use of outlet for the discharge of treated effluent and emission due to operation of industrial plant manufacturing following items/ products:

Br. No.	Product	Existing as per GGA dated 28/06/2021	Total quantity after GGA-Amendment		
1,	Dry Cargo Handling	6,00,00,000 MTA	60 MMTPA		
2.	Liquid Cargo (including Chemicals, POL Products, all class A, B, C Petroleum Products, toxic & non hazardous chemicals/ liquid)	-	5 MMTPA		
5.	Desalination Plant	47 MLD	80 MLD		



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PARYAVARAN BHAVAN, SECTOR 10-A, GANDHINAGAR - 382010, (T) 079-23232152

- 3.9 Treated domestic effluent conforming to above standard shall be discharged on land for gardening and plantation purpose within premises only. In no case waste water shall be discharged outside premises.
- 3.10 Industry shall provide fixed pipeline network with flow meter for even distribution of treated domestic effluent and maintain its record.
- 3.11 Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.
- 4. The condition no. 5.1 & 5.2 of the said CCA is amended as below:
 - 5.1 Authorization order no. WH- 139724 Date of issue: 16/01/2025.
 - 5.2 M/s. Adani Port & Special Economic Zone Ltd., is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, treatment, storage, transport of hazardous waste on the premises situated at Survey no. 141, Navinal Island, Mundra, Tal: Mundra, Dist: Kutch;

Br. No.	Waste		iantity	Schedule	Collection, storage, transportation and disposal by selling out to registered recycler.		
		Existing	After GCA- Amendment	&Category			
1.	Used Oil	238 MT	240 MT	1-5.1			
2.	Discarded Drums & Containers	26 MT	28 MT	1-33.1	Collection, storage, transportation and disposal by selling out to authorised decontaminator.		
3.	Contaminated cotton waste rags or other cleaning material	32 MT	31 MT	1-33.2	Collection, storage, transportation and co- processing plant or CHWIF site.		
4.	Spent ion exchange resin		5 MT	1-35.2	GHYVIF BILD.		

 Rest of conditions of Consolidated Consent & Authorization (CC&A) order No: AWH-113458 issued vide this office letter no. PC/CCA-KUTCH-582(4)/ ID-35427/ 595234 dated 16/07/2021 shall remain unchanged and industry shall comply with the same judicially.

For and on behalf of GUJARAT POLLUTION CONTROL BOARD

> (T. C. Patel) Unit Head

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Regional Office: Kutch - East

Room No. 215-216-217, Deendayal Port Trust Administrative Building, Sector 8, Gandhidham - 370205. Kutch-Gujarat
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By R.P.A.D

Consent to Establish (NOC) CTE NO: CTE-77914 Appl. Type: CTE-Fresh

NO:GPCB/KUT/CTE-/ID-111809/

To.

M/s. Mundra Petrochem Limited

Near Adani Solar,

Industrial Estate: APSEZ, Town: Tunda, Tal: Mundra, Dist: Kutch East, Pin: 370 435.

SUB: Consent to Establish (NOC) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981.

REF: Your NOC application No. 320795 dated 18/10/2024.

Sir.

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution)
Act-1974, the Air (Prevention and Control of Pollution) Act-1981 and the Environment (Protection) Act1986 and without reducing your responsibilities under the said Acts in anyway, this is to inform you that
this Board grant Consent to Establish (NOC) for setting up of an industrial plant/ activities at Near Adami
Solar, Industrial Estate: APSEZ, Town: Tunda, Tal: Mundra, Dist: Kutch East, Pin: 370 435.

- CTE Order No.: CTE-77914 date of issue 09/12/2024, Valid upto 18/09/2031.
- 2. The list of proposed product to be manufactured shall be as follows:

Sr. No.	List of Product	Quantity	Unit per Annum	CAS No.	Remarks		
1.	DESAL Water	29,200	Million Liter per Annum	7732-18- 5	Sea Water Reverse Osmoses Process.		

SPECIFIC CONDITIONS

- No ground water shall be used for the project coming under dark zone without permission of competent authority.
- b. Industry shall comply with fresh water from valid source having permission of the competent authority.
- You shall not carry out any activity which may attract the applicability of EIA notification-2006.
- d. Management of Solid Waste generated from industrial activities shall be as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).
- e. As per provision of Rule-18 of Solid Waste Management Rules-2016 all industrial units using fuel and located within 100 km from the refused derived fuel (RDF) plant shall made an arrangement to replace at least five percent of their fuel requirement by refused derived fuel so produced.
- f. Unit shall comply with the Board circular dated 27/08/2021 regarding retrofitting of emission control devices/equipment in D.G. Set with a capacity of 125 KVA and above as per system & procedure for emission compliance testing of Retrofit Emission Control Device (RECD) for D.G. Set issued by CPCB dated 01/02/2022 at the earliest and submit compliance.

- g. Industry shall strictly comply with the submitted undertaking dated 23/09/2024 that lessee & lessor (APSEZ) are both jointly and severally responsible in case of any violation of environmental Acts/laws.
- Industry shall not carried out any activity which may attract the CRZ Notification 2011 & amendment therein.
- Industry shall strictly comply with all the conditions mention in Environment and CRZ Clearance vide No. EC24A3501GJ5976060N.

3. CONDITION UNDER THE WATER ACT:

- 3.1 The quantity of total water consumption shall not exceed 200,008 KL/Day as per below break up as mentioned in form D submitted for consent application under the Water Act-1974.
 - a) Industrial: 200,000.00 KL/Day
 - b) Domestic: 08.00 KL/Day
- 3.2 Source of water: Existing Arabian Sea Water Reservoir,
- 3.3 The quantity of total waste water generation shall not exceed 120,007 KL/Day as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.
 - a) Industrial: 120,000,00 KL/Day
 - b) Domestic: 07.00 KL/Day
- 3.4 Industrial effluent management:
 - a) Mode of disposal of treated industrial effluent: Existing Outfall Channel
 - b) Description for treated industrial effluent disposal: The quantity of the industrial effluent from the manufacturing process and other ancillary operation (DESAL Plant Rejected water) shall be discharge into the Existing Outfall Channel.
- 3.5 Domestic sewage management:
 - a) Mode of disposal of treated domestic sewage: Soak Pit/ Septie Tank.
 - b) Description for treated domestic sewage disposal: Generated domestic waste water shall be Disposed into Soak Pit/ Septic Tank.
- 3.6 Industry shall affix of water meters for the purpose of measuring and recording the quantity of water consumed at such places as may be required and it shall be presumed that the quantity indicated by the meter has been consumed by the industry until the contrary is proved.
- 3.7 Industry shall provide fixed pipeline network with flow meter at inlet and outlet of DESAL Water plant and maintain its records.
- 3.8 Disposal system for storm water shall be provided separately, in no circumstances storm water shall be mixed with the industrial effluent.
- 3.9 The Board reserves the right to review and/or revoke the consent and/or make modifications in the conditions which it seems fit in accordance with provisions of WaterAct-1974.

4. CONDITIONS UNDER THE AIR ACT:

- 4.1 There shall be no use of any fuel anywhere in the manufacturing process and consequently there shall be no flue gas emission from the manufacturing process and any other ancillary industrial operation.
- 4.2 There shall be no process gas emission from the manufacturing process and any other ancillary industrial operation.
- 4.3 The height of vent/exhaust attached with hood of kitchen shall be at least 3m above the building height.
- 4.4 The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified here under.



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	The same of the sa	Permissible Limit (microgram /m²)					
Sr. No.	Parameters	Annual	24 Hours Average				
1.	Particulate Matter (PM ₁₀)	60	100				
2.	Particulate Matter (PM33)	40	60				
3.	Oxides of Sulphur (SO ₂)	50	80				
4.	Oxides of Nitrogen (NO ₁)	40	80				

- Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
- 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.
- 4.5 Industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

5. CONDITION UNDER HAZARDOUS & OTHER WASTE (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016:

- 5.1. Unit shall have to comply with provisions of hazardous & other wastes (management & Transboundary Movement) Rules, 2016 as amended from time to time.
- 5.2. The applicant shall provide temporary storage facilities for each type of Hazardous Waste as per Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016 as amended from time to time.
- 5.3. The applicant shall obtain membership of common TSDF site for Hazardous Waste as categorized in Hazardous & other Waste (Management Transboundary Movement) Rules, 2016 as amended from time to time.

6. GENERAL CONDITIONS:

- 6.1 In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also, any change in equipment or working conditions as mentioned in the consent form/ order should immediately be intimated to this Board.
- 6.2 Industry shall put up at the entrance a board displaying the name of the Industry, particulars of the products/ process and the name of proprietor/partners /directors of the Industry and the electricity consumer number as on the record of PGVCL.
- 6.3 The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th June every year.
- 6.4 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 6.5 The industry shall have to display the relevant information with regard to hazardous waste, waste water & air pollutants as indicated in the Courts Order in W.P. No.657 of 1995 dated 14th October-2003.
- 6.6 As per "Public Liability Insurance Act 1991", industry shall get Insurance Policy, if applicable.
- 6.7 Applicant shall also comply with the general conditions given in annexure I.

- 6.8 The waste generator shall be totally responsible for (I.E. Collection, storage, transportation and ultimate disposal) of the wastes generated.
- 6.9 Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form - 4 by 31s1 January of every year.
- 6.10 In case of any accident, details of the same shall be submitted in Form 5 to Gujarat Pollution Control Board.
- 6.11 Empty drums and containers of toxic and hazards material shall be treated as per guideline published for management & handling of discarded containers". Records of the same shall be maintained and forwarded to Gujarat Pollution Control Board regularly.
- 6.12 In no case any kind of hazardous waste shall be imported without prior approval of appropriate authority.
- 6.13 In case of transport of hazardous waste to a facility for (I.E. Treatment, Storage and disposal) existing in a state other than the state where hazardous waste are generated, the occupier shall obtain "No Objection certificate" from the state pollution Control Board, the Committee of the concerned state or Union territory Administration where the facility exists.
- 6.14 Unit shall take all concrete measures to show tangible results in waste generation reduction, voidance, reuse and recycle. Action taken in this regard shall be submitted within 03 months and also along with Form 4.
- 6.15 Industry shall have to display online data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including wastewater and air emissions and solid hazardous waste generated within the factory premises.

For and on behalf of GUJARAT POLLUTION CONTROL BOARD

> (F.M. Modi) RO Head, Kutch East

ISSUED TO, M/s. Mundra Petrochem Limited Near Adani Solar, Industrial Estate: APSEZ, Town: Tunda, Tal: Mundra, Dist: Kutch East, Pin: 370 435.





Certificate of Validation

Zero Waste to Landfill Achievement

Presented to

Mundra Port

Adani Ports and Special Economic Zone Ltd

At & Post -Mundra, Gujarat-370405, India

This is to certify that **Mundra Port** has successfully achieved the **Zero Waste to Landfill (ZWL) Platinum – Class I Rating** by demonstrating outstanding leadership in waste management practices through:

- Waste Diversion Rate: Attaining a diversion rate of 99.61% from landfill through the adoption and implementation of the 5R principles Reduce, Reuse, Repurpose, Recycle, and Recover.
- Sustained Commitment: Maintaining ongoing compliance through participation in annual surveillance audits to ensure conformance and adherence to ZWL principles.





Seema Arora
Deputy Director General
Confederation of Indian Industry

Certificate Issued on: 03 May 2025 Certificate No.: CII/ZWL/2025/001

Validity of Certification: From 23 December 2024 to 22 December 2027

Initial Certification: TUV/ZWLMS/2021/Adani Ports/0501

This certification is awarded based on the evidence submitted and verified during the assessment period. The certified organization bears sole responsibility for the accuracy of submitted data and for maintaining ongoing compliance. For detailed terms of certification, audit findings, and evaluation methodology, please refer to the attached Annexure.

	Expense Details for Fisherfolk Amenitites work in different core areas											
Sr. No.	Details	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	TOTAL	AMT IN
	Expenditure Details (Amount in Rs.)											
1	1 Vidya Deep Yojana		193,000	2,087,000	1,771,000	110,225	580,103	969,660	-	-	7,780,288	77.80
2	Vidya Sahay Yojana	552,580	495,000	691,000	708,000	504,336	659,709	847,013	563,000	644,000	5,664,638	56.65
3	Adani Vidya Mandir – Shaping Lives	4,200,000	4,030,000	3,472,000	6,434,020	1,593,805	3,737,700	5,950,854	7,452,390	7,815,023	44,685,792	446.86
4	Senio Citizen Health Card		8,430,000	1,750,000	2,975,000	1,750,000	-	-	-	-	14,905,000	149.05
5	Financial Support to Poor Patients	4,439,507	1,275,000	813,000	1,296,063	763,800	1,255,000	1,691,410	1,620,000	1,666,000	14,819,780	148.20
6	Machhimar Kaushalya Vardhan Yojana	188,708	200,000	397,000	73,000		226,000	134,070	-	-	1,218,778	12.19
7	Machhimar Sadhan Sahay Yojana			315,000	522,000		-	-	-	-	837,000	8.37
8	Machhimar Awas Yojana	4,592,106	1,165,000		2,311,000	2,424,016	2,480,000	712,000	1,227,000	-	14,911,122	149.11
9	Machhimar Shudhh Jal Yojana	2,236,050	2,700,000	2,038,000	1,773,000	2,348,300	1,936,575	2,096,050	1,370,000	1,264,000	17,761,975	177.62
10	Sughad Yojana	1,367,300	170,000		192,000	30,000	-	-	-	-	1,759,300	17.59
11	Machhimar Akshay kiran Yojana	860,850	100,000	68,000			-	-	-	-	1,028,850	10.29
12	Machhimar Ajivika Uparjan Yojana-Mangroves plantation	1,558,800	500,000	1,382,000	1,400,000	1,900,272	2,069,432	1,914,432	-	270,000	10,994,936	109.95
13	Bandar Svachhata Yojana	106,400	50,000			367,000	145,000	25,000	-	-	693,400	6.93
14	Cricket league and Cycle Marathon	432,000	657,119	638,000	610,800		-	-	-	-	2,337,919	23.38
15	Sports Material For Children & Youth at Vasahats	197,797					-	-	-	-	197,797	1.98
16	New Pilot Initiative for Polyculture	398,240	160,000				-	-	-	-	558,240	5.58
17	New Pilot Initiative for Cage farming Asian Seabass & Lobster	864,000	660,000				-	=	-	-	1,524,000	15.24
18	Sea Weed Culture Project				200,000		-	-	-	-	200,000	2.00
19	Mangrove Biodiversity Project			1,890,000	684,000	499,210	997,642	1,135,000	-	191,000	5,396,852	53.97
20	20 Approach Road restoration at 9 vasahat					599,000	942,780	1,011,000	-	-	2,552,780	25.53
21	Community trening Centor & Maintenance work					·	6,022,000	2,051,000	-	-	8,073,000	80.73
	TOTAL	24,063,638	20,785,119	15,541,000	20,949,883	12,889,964	21,051,941	18,537,489	12,232,390	11,850,023	157,901,447	1,579.01