Half Yearly EC Compliance Report Submission -MPT 1995 Period of April 23 to Sept.23 (Part-1)

Bhagwat Swaroop Sharma < Bhagwat.Sharma1@adani.com>

Wed 11/29/2023 7:27 PM

To: eccompliance-guj@gov.in < eccompliance-guj@gov.in >; iro.gandhingr-mefcc@gov.in < iro.gandhingr-mefcc@gov.in >; iro.gandhingr-me

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1 attachments (19 MB)

EC Compliance Report_MPT_Apr'23 to Sep'23_Final-part-1.pdf;



APSEZL/EnvCell/2023-24/059

Date: 28.11.

To

The Inspector General of Forest / Scientist C, Integrated Regional Office (IRO),

Ministry of Environment, Forest and Climate Change, Aranya Bhawan, A Wing, Room No. 409,

Near CH 3 Circle, Sector - 10A,

Gandhinagar - 382007.

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

Sub

- : Half yearly Compliance report of Environment and CRZ Clearance for "Handling facility of Ge Cargo / LPG /Chemicals and their storage terminal at Navinal Island, Mundra taluka of Kutch die Gujarat"
- Ref : Environment and CRZ clearance granted to M/s Adami Ports & SEZ Limited vide letter dated August 1995 bearing no. J-16011/13/95-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 copy of the compliance report for the Environmental and CRZ Clearance for the period of April 20; September 2023 is being submitted through soft copy (e-mail communication).

Kindly consider above submission and acknowledge.

Thank you, Yours Faithfully,

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

Bhagwat Swaroop Sharma Head – Environment Mundra & Tuna Port

Encl: As above

Copy to:

- The Director (IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawa Bagh Road, New Delhi-110003.
- The Zonal Officer, Regional Office, CPCB Western Region, Parivesh Bhawan, Opp. VMC Ward Office N 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 = 382
- 5) The Regional Officer, Regional Office GPCB (Kutch-East), Gandhidham 370201.

Adani Ports and Special Economic Zone Ltd Adani House, PO Box No. 1 Mundra, Kutch 370 421 Gujarat, India CIN: L63090GJ1998PLC034182 Tel +91 2838 25 5000 Fax +91 2838 25 51110 info@adani.com www.adani.com

Registered Office: Adani Corporate House, Shantigram, Nr. Vaishno Devi Circle, S.G. Highway, Khodiyar, Ahmedabad – 382-Guiarat, India

Half Yearly EC Compliance Report Submission -MPT 1995 Period of April 23 to Sept.23 (Part-2)

Bhagwat Swaroop Sharma < Bhagwat.Sharma1@adani.com>

Wed 11/29/2023 7:46 PM

 $\label{to:compliance-guj@gov.in} To: eccompliance-guj@gov.in >; iro.gandhingr-mefcc@gov.in < iro.gandhingr-mefcc@gov.in >; iro.gandhi$

Cc:ec-rdw.cpcb@gov.in <ec-rdw.cpcb@gov.in>;ro-gpcb-kute@gujarat.gov.in <ro-gpcb-kute@gujarat.gov.in>;ms-gpcb@gujarat.gov.in <ms-gpcb@gujarat.gov.in>;mefcc.ia3@gmail.com <mefcc.ia3@gmail.com>;monitoring-ec@nic.in <monitoring-ec@nic.in>;direnv@gujarat.gov.in <direnv@gujarat.gov.in>;Charanjit Singh <Charanjit.Singh@adani.com>;Sujalkumar Shah <sujal.shah@adani.com>

1 attachments (8 MB)

EC Compliance Report_MPT_Apr'23 to Sep'23_Final-part-2.pdf;



APSEZL/EnvCell/2023-24/059

Date: 28.11.

To

The Inspector General of Forest / Scientist C, Integrated Regional Office (IRO),

Ministry of Environment, Forest and Climate Change,

Aranya Bhawan, A Wing, Room No. 409, Near CH 3 Circle, Sector – 10A,

Gandhinagar – 382007.

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- 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 = 382
- 5) The Regional Officer, Regional Office GPCB (Kutch-East), Gandhidham 370201.

Adani Ports and Special Economic Zone Ltd Adani House, PO Box No. 1 Mundra, Kutch 370 421 Gujarat, India CIN: L63090GJ1998PLC034182 Tel +91 2838 25 5000 Fax +91 2838 25 51110 info@adani.com www.adani.com

Registered Office: Adani Corporate House, Shantigram, Nr. Valshno Devi Circle, S.G. Highway, Khodiyar, Ahmedabad – 382-



APSEZL/EnvCell/2023-24/059

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Sub

: Half yearly Compliance report of Environment and CRZ Clearance for "Handling facility of General Cargo / LPG /Chemicals and their storage terminal at Navinal Island, Mundra taluka of Kutch district, Gujarat"

Ref

: Environment and CRZ clearance granted to M/s Adami Ports & SEZ Limited vide letter dated 25th August 1995 bearing no. J-16011/13/95-IA.III

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Environmental Clearance Compliance Report



Multi-Purpose Jetty and Storage Facilities at Navinal Island, Mundra, Dist. Kutch, Gujarat

of

Adani Ports and Special Economic Zone Limited

For the Period of:

April-2023 to September-2023



From: Apr'23 To: Sep'23

Status of the Conditions Stipulated in Environment and CRZ Clearance

Index

Sr. No.	Particulars					
1	Environment and CRZ Compliance Report					
	Annexures					
	Annexure - 1	Half Yearly Environment Monitoring Summary Report	21-96			
	Annexure - 2 Details on Mangroves afforestation & Green belt development					
2	Annexure - 3	Adani Foundation – CSR Report for the FY 2023-24 till Sep'23	101-170			
	Annexure - 4 Copy of CCA correction letter					
	Annexure - 5	Budget spent for environmental protection expenditure	177			



From: Apr'23 To: Sep'23

Status of the Conditions Stipulated in Environment and CRZ Clearance

• Chronology of company name change from **M/s. 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 Oct'20 to Mar'21.



From : Apr'23 To : Sep'23

Status of the Conditions Stipulated in Environment and CRZ Clearance

Half yearly Compliance report of Environment and CRZ Clearance for "Handling facility of General Cargo / LPG /Chemicals and their storage terminal at Navinal Island, Mundra taluka of Kutch district, Gujarat" issued vide letter no. J-16011/13/95-IA.III dated 25th Aug., 1995.

Sr.	Conditions	Compliance Status as on
No.	Conditions	30-09-2023
2(i)	All construction designs / drawings relating to various project activities should have the approval of the concerned State Government departments / Agencies.	All construction and operation activities are being carried out in line with the CRZ recommendation and permissions granted.
2(ii)	To prevent discharge of bilge wastes, sewage and other liquid wastes from the oil tankers / ships into marine environment, adequate system for	Complied Ships berthing at Mundra Port comply with MARPOL regulations. No discharge such as bilge wastes, sewage or any other
	collection, treatment and disposal of liquid wastes including shoreline installation and special hose connections for ships to allow for discharge of	liquid wastewater is allowed into marine environment inside port limits. APSEZ has adequate Waste Reception facility as per MARPOL and DG Shipping regulations. The port has reception facility for all MARPOL waste streams (Annex-
	sewage must be provided.	I, Annex-II, Annex-IV & Annex-V) except Annex-VI that is generated from vessels. APSEZL has not received any sewage/liquid waste from ships / vessels till date.
		As a general practice APSEZ provide facility for receiving slop / waste oil from vessels through hose connection with oil tankers. These tankers divert slop / waste oil to Oil water separator system where water and oil particles are separated. Separated oil is being sold to authorized recycler /re-processor. However, no slope / waste oil was received during the compliance period.
2(iii)	The quality of treated effluents, solid wastes, emissions and noise levels etc. must confirm to the standards laid down by the competent authorities	ETP is provided to treat the wastewater/wash water. Also the sewage generated from port is being treated in designated ETP. Treated water is used for horticultural purposes. Quality of treated water confirm to the



From: Apr'23 To: Sep'23

Sr. No.	Conditions		(•	iance St 30-09-2		on	
	including the central and State Pollution Control	standard la	ob bie	wn by	Gujarat	Polluti	on Con	trol Board.
	Boards under the Environment (Protection) act, 1986 whichever are more stringent.	Location	Сара	city	(Avg. fro	Vater	Т	ype of ETP / STP
	j	LT	265	KLD	10	7 KLD		Activated Sludge
		land for ho achieving p	orticul prescr of ETI e perio	ture p ibed p C trea od as r	ourpose permissil ted wat mention	within ble limit cer ana ed belo	port pr t. lysis re w.	g utilized on emises after sults during
		Paramet	er	Unit	Min	Max	Averag	e Perm. Limit ^{\$}
		рН			6.74	7.52	7.29	6.5 – 8.5
		TSS		mg/L	18	32	24.33	
		TDS		mg/L	732	1106	852	2100
		COD		mg/L	72.6	89.4	79.5	100
		BOD Ammonio	nal .	mg/L	20	27	23.67	30
		Nitrogen as		mg/L	20.60	28.80	24.50	50
		emissions by NABL a namely M/s Ltd., Vapi. Monitoring carried out parameters residual ch For details Sep'23. A environme 24 till Sep'	and naccred s. Unis Please g and t regul s such llorine ed and pprox ntal m 23 for	oise le lited a star Er e refer analy larly th n as p alysis . INR nonitor	evels are and Modern Annexum sis of Enrough in the control of the	er, treate being EF&CC ent and ure - 1. ETP trender n-hous TSS, Control the Lakh ivities of Z.	ated e regula recogn Resear ated w e labora COD, Ch e period is sp during t	ffluents, air rly analyzed ized agency ch Labs Pvt. raste is also atory for the alorides, and add Apr'23 to ent for all he FY 2023-
		ir is also no	יופט נו	iat GP		mig reg	Juial SIC	e inspection



From: Apr'23 To: Sep'23

Sr.		Compliance Status as on
No.	Conditions	30-09-2023
		along with wastewater sampling and analysis. The last GPCB sample analysis report was submitted as part of compliance report submission for the duration of Apr'21 to Sep'21 which shows all the parameters are well within the permissible limit.
		Waste Management – APSEZ has adopted 5R concept for environmentally sound management of different types of solid & liquid wastes. Please refer below details about management of each type of waste.
		Non-Hazardous Solid Waste: 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, and Glasses, etc. are then sent to respective recycling units, whereas remaining non-recyclable waste is bailed and sent to cement plant (M/s. Ambuja Cement Ltd., Kodinar) for Co-processing as RDF (Refused Derived Fuel).
		APSEZ, Mundra is certified for Zero Waste to Landfill management system (ZWTL MS 2020) by TUVRheinland India Pvt. Ltd. (valid up to 31.05.2024). Details of the same were submitted as part of compliance report submission for the duration of Apr'21 to Sep'21.
		Hazardous & Other Waste:
		 Bio medical waste generated from OHCs and Adani Hospital is being disposed at Common Bio Medical Waste Treatment Facility namely M/s. Distromed Kutch Services Pvt. Ltd., Bhuj. E - Waste is being sold to GPCB registered recyclers namely M/s. Galaxy Recycling, Rajkot. Used Batteries are being sold to GPCB registered recyclers namely Sabnam Enterprise, Kutch and S K Metal Industries, Rajkot.



From: Apr'23 To: Sep'23

Sr. No.	Conditions	Compliance Status as on 30-09-2023
		 Solid Hazardous Waste is being disposed through coprocessing / incineration/landfilling through common facility i.e. M/s. Saurashtra Enviro Projects Pvt. Ltd., Bhachau, M/s. Safe Enviro Private Limited, Bharuch and/or cement industries of Ambuja Cement Ltd., Kodinar. Used/Waste Oil is being sold to GPCB authorized recyclers / re-processors namely M/s. Western India Petro Chem Ind - Bhavnagar, Aviation Corporation - Kutch & Aroma Petrochem - Bhavnagar. It is also being reused within organization for lubrication purpose. Discarded drums / barrels are being sold to authorized decontamination facility i.e. M/s. Jawrawala Petroleum, Ahmedabad. It is also being reused within organization for filling hazardous waste. Solid hazardous waste i.e. Tank bottom sludge is being sold to authorized recycler namely M/s. Mundra Oil Pvt. Ltd., Mundra for recycling. However during the compliance period, there was no disposal of downgrade chemicals. Expired paint materials are being disposed by incineration through common facility i.e. M/s. Saurashtra Enviro Projects Pvt. Ltd., Bhachau. However during the compliance period, there was no disposal of downgrade chemicals. Downgrade chemicals generated from cleaning of storage tanks / pipelines are being sold to authorized solvent recovery facilities namely M/s. Acquire Chemicals, Ankleshwar. However during the compliance period, there was no disposal of downgrade chemicals. Slop Oil received from vessels is treated to separate water and oil particles in Oil Water Separator system. Separated oil from the same is being sold to authorized recycler / reprocessor namely M/s. Western India Petro Chem Ind - Bhavnagar, Aviation Corporation - Kutch & Aroma Petrochem - Bhavnagar and water is sent to ETP for further treatment. However, during the compliance period i.e. Apr'23 to Sep'23, there was no received or disposal of Slope Oil. Horticulture waste is collected from various green belt area



From: Apr'23 To: Sep'23

Sr.		Compl	liance Stat	us as on
No.	Conditions		30-09-202	
		premises.		
		authorized vendors w half yearly EC Comp	ere submit	ents of hazardous waste ted along with pervious ports. And there is no
		further change.		
		I ~		the waste management b) for different types of
		Type of Waste	Quantity in MT	Disposal method
		Hazardous Waste		
		Pig Waste	3.70	Co-processing at cement
		Oily Cotton waste	52.64	industries
		Used / Spent Oil	82.93	Sell to registered recycler
		ETP/CETP Sludge	12.71	Co-processing at cement industries
		Discarded Containers / Barrels	1.90	Sell to registered recycler
		Other Waste		
		E-Waste	31.37	Sell to registered recycler
		Battery Waste Bio Medical Waste	17.83 3.38	Sell to registered recycler
		Non-Hazardous Waste	3.38	To approved CBWTF Site
				After recovery sent for
		Recyclables Dry Waste / Scrap	1377.09	recycling / Reuse within premises
		Non-Recyclable Dry Waste (RDF)	253.54	Co-processing at Cement Industries
		Wet Waste (Food waste + Organic waste)	459.04	Converted to Manure for Horticulture use / Biogas for cooking purpose
		Horticulture Waste	405.30	Used for making of manure and utilize for horticulture purpose
		a month) monitoring accredited and MoEFS Unistar Environment a Quality of Ambient A standard laid down be same for duration frobelow.	are being &CC approvand Resear ir and Noi by SPCB / om Apr'23	veek) and Noise (once in grantied out by NABL ved agency namely M/s. rch Labs Pvt. Ltd., Vapi. se level confirm to the CPCB. Summary of the to Sep'23 is mentioned
		Total Ambient Air & N	ioise Samp	iing Locations: 4 Nos.



From: Apr'23 To: Sep'23

Sr. No.	Conditions		Co		e Status a 9-2023	s on	
140.		Parameter	Unit	Min	Max	Average	Perm.
		AAQM					Limit ^{\$}
		PM ₁₀	µg/m³	40.32	89.74	74.85	100
		PM _{2.5}	µg/m³	14.28	48.49	30.74	60
		SO ₂	µg/m³	5.87	41.11	22.94	80
		NO ₂	µg/m³	8.13	48.83	27.33	80
		Noise	Unit	Leq Min	Leq Max	Leq Avg.	Leq Perm. Limit*
		Day Time	dB(A)	58.50	69.90	64.57	75
		Night Time	dB(A)	54.20	64.80	59.73	70
		the period	er Anne : Apr'23 all envir	xure – 1 fo to Sep'2 conmenta	* as ded confirms or detaile 23. Appro I monitor	s per CC&A go to the stipul d analysis x. INR 5. ing activi	randards, 2009 ranted by SPCB ated standards. reports for O8 Lakh is ties during
2(iv)	Adequate provision for infrastructure facilities such as water supply, roads, sanitation etc. should be ensured so as to avoid environmental degradation in the surrounding areas. These facilities should be brought into existence during the construction phase and will remain in existence thereafter as part of the infrastructure build up in the area for local developmental purposes.	infrastruct construction The facility provided Photograp compliance Mar'17.	ure factor phase / for dri for the for the for the for the for the fore fore fore fore fore fore fore for	cility was se and tho nking wa ne dign se same v	provided ose are in ter, toilet ity of vere subm	d to labo existence and rest operation nitted alor	shelter are
2(v)	Adequate noise control measures should be ensured in various project activities and due to increase in the traffic which is likely to take place during construction and operational phases.	For operations are taken: • All DG confirm • Proper machine • Green E operations	sets a ing EPA mainteries is Belt ha	ese, follo re instal A norms. cenance being do s been c	wing nois led with of equ ne on reg developed	acoustic uipments ular basis I at road	•



From: Apr'23 To: Sep'23

Sr. No.	Conditions	Compliance Status as on 30-09-2023			
		regulation, traffic guides etc. are in place to reduce			
		the unnecessary honking by cargo vehicles.			



2(vi)

Adani Ports and Special Economic Zone Limited, Mundra.

From: Apr'23 To: Sep'23

Status of the Conditions Stipulated in Environment and CRZ Clearance

The water quality parameters such as dissolved oxygen, ammonical nitrogen and other nutrients etc. should be measured at regular intervals to ensure adherence to the prescribed standards of water qualities. Suitable ground water monitoring should also be undertaken around the sludge lagoons and regular reports to be submitted to the Ministry for evaluation.

Complied.

ETP having 265 KLD capacity is provided for treatment of wastewater. Treated water is used for horticulture purpose within premises after confirming permissible limit. The watery sludge is transferred to sludge drying bed, where the excess wastewater is recirculated to ETP. Monitoring and analysis of ETP treated waste is also carried out regularly through in-house laboratory for the parameters such as pH, TDS, TSS, COD, Chlorides, and residual chlorine.

Third party analysis of the treated water is being carried out once in a month by NABL accredited and MoEF&CC approved agency namely M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi. Summary of the same for duration of Apr'23 to Sep'23 is mentioned in compliance condition no. 2(iii) above.

Marine Monitoring:

Marine monitoring (Surface, Bottom and Sediment) is being carried out once in a month by NABL accredited and MoEF&CC approved agency namely M/s. Unistar Environment and Research Labs Pvt. Ltd., Vapi. Summary of the same for duration from Apr'23 to Sep'23 is mentioned below. Monitoring Reports are attached as **Annexure – 1** for the same.

Total Sampling Locations: 09 Nos.

Paramet	Unit		Surface			Bottom	
er	Oilit	Min	Max	Avg.	Min	Max	Avg.
рН	-	7.95	8.27	8.14	7.81	8.15	7.98
BOD (3 Days @ 27 °C)	mg/L	2.2	3.8	3.01	BDL(M DL:1.0)	BDL(M DL:1.0)	BDL(M DL:1.0)
TSS	mg/L	94	154	120.26	72	128	101.04
DO	mg/L	5.85	6.37	6.15	5.52	6.22	5.83
Salinity	ppt	34.89	36.94	36.00	35.62	37.84	36.73
TDS	mg/L	35860	37844	36675	36540	38124	37299

*BDL – Below Detection Limit *MDL – Minimum Detection Limit

Ground Water Monitoring:

There are no sludge lagoons however, to monitor the ground water quality, bore wells are provided at various location in the port and SEZ areas. Third party analysis of the ground water is being carried out twice a year by NABL accredited and MoEF&CC approved agency namely M/s. Unistar Environment and Research Labs Private Limited., Vapi. Summary of the same for duration of Apr'23 to Sep'23 is mentioned below.



From: Apr'23 To: Sep'23

Status of the Conditions Stipulated in Environment and CRZ Clearance

Samolino	Locations:	5 Nns
201112111119	LOCULIONS.	<i>-</i> 1403.

Parameters	Unit	Min	Max	Average
pH @ 25 ° C		7.67	8.49	8.22
Salinity	ppt	0.37	5.82	3.13
Oil & Grease	mg/L	*BDL	*BDL	*BDL
Hydrocarbon	mg/L	ND*	ND*	ND*
Lead as Pb	mg/L	*BDL	*BDL	*BDL
Arsenic as As	mg/L	*BDL	*BDL	*BDL
Nickel as Ni	mg/L	0.03	0.25	0.09
Total Chromium as Cr	mg/L	*BDL	*BDL	*BDL
Cadmium as Cd	mg/L	0.01	0.15	0.05
Mercury as Hg	mg/L	*BDL	*BDL	*BDL
Zinc as Zn	mg/L	0.06	0.14	0.08
Copper as Cu	mg/L	*BDL	*BDL	*BDL
Iron as Fe	mg/L	0.15	0.95	0.42
Insecticides/Pesticides	µg/L	ND*	ND*	ND*
Depth of Water Level from Ground Level	meter	1.90	2.14	2.02

ND*= Not Detectable *BDL - Below Detection Limit

Please refer **Annexure – 1** for detailed analysis reports for the period Apr'23 to Sep'23. Approx. INR 5.08 Lakh is spent for all environmental monitoring activities during the FY 2023-24 till Sep'23 for overall APSEZ.



From: Apr'23 To: Sep'23

Sr.		Compliance Status as on
No.	Conditions	30-09-2023
2(vii)	Adequate culverts should be provided for smaller creeks so that breeding grounds for	Complied. Adequate culverts are provided on prominent creek
	crabs, mud snappers and other marine organisms are not cut off by road construction activities.	system named as (1) Kotdi (2) Baradimata (3) Navinal (4) Bocha (5) Mundra (Oldest port (Juna Bandar) leading to Bhukhi river).
		All above creeks are in existence allowing free flow of water and there is no filling or reclamation of any creek area. APSEZL has so far constructed 19 culverts having total length of approx. 1100 m with total cost of INR 20 Crores. Apart from that three RCC Bridges have been constructed over Kotdi creek with total length of 230 m and cost of INR 10 Crores. Photographs of the same were submitted as part of compliance report submission for the duration of Apr'17 to Sep'17.
2(viii)	A hundred meter wide	Complied.
	mangrove belt should be created all along the west of Navinal Creek till its junction up to new road. Green belt of 50 M width should also be	24 hectare of Mangrove afforestation was carried out with a cost of INR 25.0 Lac at west of Navinal creek. All Mangrove plantations were done in consultation with Dr. Maity, Mangrove consultant of India.
	provided all along the periphery of the plant site and along the roads, storage tanks etc. at 1500 trees per hectare. All details regarding the Mangrove belt and other afforestation work must be	Green belt was developed 72.67 ha. Total 149959 trees were planted with the density of 2060 trees per hectare within the port area. So, far APSEZ has developed 457.99 ha. area as greenbelt with plantation of more than 9.06 Lacs saplings within the APSEZ area.
	worked out in consultation with the State Forest Department, and details sent to the Ministry.	To enhance the marine biodiversity, till date APSEZ has carried out mangrove afforestation in 3890 ha. area across the coast of Gujarat. Total expenditure for the same till date is INR 1070.8 lakh.
		Details on Mangroves afforestation & Green belt development carried out by APSEZ till date is annexed as Annexure – 2 .
		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 GUIDE, Gujarat. During 2018-2019 (Phase-I) multi- species mangrove plantation was carried out in 10 ha,



From: Apr'23 To: Sep'23

Sr.		Compliance Status as on
No.	Conditions	Compliance Status as on 30-09-2023
		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 current 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.
		These plantations are diligently maintained and continually monitored. Notably, these forests have evolved into a thriving habitat for various marine and migratory bird species, enriching the local ecosystem.
		Since PhD scholars and students frequently visit this area for study. we plan to establish it as a Center of Excellence, serving as a hub to create awareness among students and facilitating research activities for scientist.
		Please refer attached Annexure – 3 for CSR activity report carried out by Adani Foundation.
2(ix)	Arrangements should be	Complied.
	made for ensuring fresh water availability for various project related activities. Special water harvesting	During the project phase, GWIL was the source of water to ensure freshwater availability.
	programs should be undertaken in the project impact area. Details of these activities should be reported to the Ministry.	Present source of water for various project activities is desalination plant of APSEZ and/or through Gujarat Water Infrastructure Limited (GWIL). Average water consumption for entire APSEZ area is 4.14 MLD during compliance period i.e. Apr'23 to Sep'23.
		Groundwater recharge cannot be done at the project site since the entire project is in the intertidal / sub tidal areas. Rainwater within project area is managed through storm water drainage.
		We have installed Rainwater recharge bore well (4 Nos.) within our township to recharge ground water. Details of the same were submitted along with half yearly EC compliance report for the period Apr'19 to Sep'19. During FY 2023-24 approx. 4.58 ML of rainwater has been recharged to increase the ground water table.



From: Apr'23 To: Sep'23

Sr. No.	Conditions			Com	-	ce Status as 09-2023	on					
		oper with for g were	atio u/g gard s su	onal building g water tank lening / horti	for ul cultu g wit	g berth buil ilization of c re purpose. [rainwater duct of ding within MPT) collected rainwater Details of the same ance report for the					
		has	car		nwate	er harvesting	rm of Adani Group g activities in the s.					
		Water conservation Projects i.e. Roof Top Rain Water 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 in current year 1.11 mtr ground water table increased as per increased in coastal belt of Mundra as per Government Figures.										
		Wate Below	r Co v ta	ter conserval nservation Proj bulated Water ce period:	ects –		low.					
			Sr. No.	Project	Unit	Outcome	Impact					
				Check dam Restrengthen ing-Nana Kapaya	1	Water Storage Capacity increased by 48000 Cum	60 + farmer's 120+Acre Area of Agri land can be Irrigated					
				Recharge Borewell	21	Reduce Salinity ingress, and preventing water run	150+ farmer's 260+ Acre Area of Agri land for Irrigated					



From: Apr'23 To: Sep'23

Sr.		Compliance Status as on										
No.	Conditions	30-09-2023										
	Conditions											
		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. Please refer Annexure – 3 for full details of CSR activities carried out by Adani Foundation in the Kutch region. Budget for CSR Activity for the FY 2023-24 is to the tune of INR 953.50 lakh. Out of which, Approx. INR 374.81 lakh is spent in FY 2023-24 till Sep'23.										
2(x)	While filling the storage tanks, compatibility of the	Complied.										



From: Apr'23 To: Sep'23

Sr.				ompliance St	tatus as on								
No.	Conditions		· ·	30-09-2									
	chemicals should be ensured for chemical safety. Since 5000 MT capacity is proposed to be created for cryogenic conditions, necessary HAZOP study	Cons stora and	Risk assessment study was carried out by M/s. Comet Consultancy Services in January 1995 as a part of EIA for storage of various chemicals in tanks for chemical safety and the same was submitted to MoEF&CC while processing EC application.										
	should be initiated and submitted to the Ministry within three months. Calculations carried out on the basis of EFFECT MODEL for this storage should be rechecked for various	Risk assessment study was carried out by iFluid Engineering for handling and storage of LPG in thre parts as mentioned below. 1. QRA for LPG Jetty Area 2. QRA for LPG Pipeline 3. QRA for LPG Tank farm											
	accident scenarios. Keeping in view the safety aspects, Horton spheres of 1250 MT	A copy of the same was submitted as part of compliance, report for the duration of Apr'17 to Sep'17.											
	capacity each should be preferred.		activity and n half yearly ar'19. assessment ctivity was										
2(xi)	The measures suggested by the Gujarat State Pollution Control Board in February, 1995 while according "No Objection Certificate" should be strictly followed and authorization certificate required for converting NOC into "consent to operate" should be submitted within three months.	Consent to operate (CC&A) has been renewed from GPC vide consent no. AWH-117045 valid till 20 th Novembe 2026. The copy of CtO renewal was submitted along wit last half yearly compliance report for the period Oct'21 the Mar'22. Consent to Establish (CtE) and Consent to Operate (CtC are obtained from GPCB and renewed/amended from											
		Sr. No.	Permission	Project	Ref. No. / Order No.	Valid till							
		1	CtO – Renewal	Mundra Port Terminal	AWH-117045	20.11.2026							
		2	CtE – Amendment	WFDP	17739 / 15618	18.05.2027							
		3	CC&A - Correction	Mundra Port Terminal	PC/CCA-KUTCH- 39(7)/GPCB ID	19.06.2021							



From: Apr'23 To: Sep'23

Sr.	Conditions	Compliance Status as on
No.	Conditions	30-09-2023
		17739/592900
		The permission mentioned above (Sr. No. 2) was submitted along with earlier compliance report submission. The copy of CtO renewal order was submitted along with last half yearly compliance report for the period Oct'21 to Mar'22. A copy of CCA correction letter is attached as ANNEXURE-4 .
2(xii)	For ensuring the acceptance of the project by the local people, a Resolution of the Official Panchayat of the Region should be obtained offering their concurrence in writing by the project proponents and submitted to the Ministry by 31st October, 1995.	Resolution from the Panchayat has been obtained and submitted to the Ministry of Environment, Forest & Climate Change on 31st July, 2012.
2(xiii)	A permanent staff structure should be created with latest R&D facilities and suitable equipments for environmental and forestry activities through creation of Environmental cell. Adequate funds should be earmarked for this cell.	APSEZ has a well-structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan at site. Site team report to Sr. Manager (Environment), who heads the Environment Management Cell who directly reports to the top management. Environment Management Cell Organogram were submitted as part of previous compliance report submission for the duration of Apr'21 to Sep'21. And there is no further change. Budget for environmental management measures (including horticulture) for the FY 2023-24 is to the tune of INR 1536.48 lakh. Out of which, Approx. INR 823.48 lakh are spent during the year FY 2023-24 till Sep'23. Detailed breakup of the expenditures for the past 3 years is attached as Annexure – 5 .
2(xiv)	Landsat imagery should be obtained on a continuous basis covering various seasons to study the change in the land use pattern due to the project and project related activities.	Complied. Project is in operation phase since many years and there is no change in the land use pattern.



From: Apr'23 To: Sep'23

Sr.		Compliance Status as on
No.	Conditions	30-09-2023
2(xv)	With a view to providing adequate job opportunities to local people, facilities for technical training and development of skills should be made available in consultation with the state Harbour Department, and to this end it must be ensured that there is allocation of adequate funds. The local people should be involved in the afforestation program proposed for the scheme to ensure public participation and success of vegetation programmes.	Adani Foundation – CSR Arm of Adani Group is doing following activities as a part of Skill Development in surrounding communities in Kutch area. • Adani Skill Development Center (ASDC), Mundra & Bhuj is providing skill development training to the locals for Soft Skill, Technical Training and Carrier Guidance & knowledge-based training. • Adani Skill Development Centre (ASDC) is playing a pivotal role in implementing sustainable development in the state. ASDC is envisioned to be playing a major role in elevating the socio-economic status of the people belonging to the lowest strata of the society by empowering them with various skill development training for employability and livelihood. • Over the last few years, ASDC has assessed various aspects of the technical, leadership and soft skills gaps that organizations, in general, face and accordingly focuses on imparting required training in those areas in partnership with various colleges and institutes. • ASDC imparted various soft skilled and technical training to make Atma Nirbhar India. • During FY 2022-23, Total 4706 people trained in various trainings to enhance socio economic development. • Preference is given to local people for employment based on their qualification and experience. • All Mangrove plantations are done in consultation with GUIDE and Local Forest dept. • 24 hectare of mangrove afforestation at Mundra was done through active participation of local fishermen at the cost of INR 25.0 Lac. • Mangrove plantation and Nursery development work has created a two-facet impact by providing Livelihood to Fisherfolk during two months Fishing during Off season and developing 162 hector dense mangrove afforestation 4445 Men days' work provide to Fisherfolk community of Luni, Sekhdiya and Bhadreshwar Villages in coordination with Horticulture Department during the FY 22-23



From: Apr'23 To: Sep'23

Sr. No.	Conditions	Compliance Status as on 30-09-2023
		Details on skill development training imparted during compliance period i.e. Apr'23 to Sep'23 by Adani Foundation are available in CSR report enclosed as Annexure – 3 .
2(xvi)	Prior clearance must be taken under the Hazardous Chemicals (manufacture, import and storage) Rules 1989, as amended up to date, from the competent authority. Such clearance will have to be taken prior to the commissioning of the project.	Permissions for storage of Hazardous Chemicals were obtained from MSIHC against the application made on 01.05.1999 through letter reference no. Kutch-HAZ/CHEM-23(2)/9713 while chemical storage permission against application made on 18.09.1999 was provided through letter reference no. Kutch-HAZ/CHEM-23(2)/9711.
		Approval from the PESO is obtained for import of hazardous chemicals as per License No. P/HQ/GJ/15/2050 (P12369) dated 18/07/2016 which is valid up to 31/12/2024 for Class A & Class C petroleum. A copy of the same was submitted along with the compliance report submission for the period of Oct'16 to Mar'17 and there is no further change. Please refer point no. 2 (xi) regarding GPCB permissions. License under Factories Act is taken dated 07.10.1998
		and last renewed vide license no. 0017 on 17.05.2019 is valid up to 31.12.2023. The same details was submitted during the last compliance period Oct'22 to Mar'23.

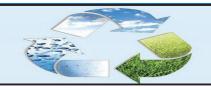


From: Apr'23 To: Sep'23

Sr. No.	Conditions	Compliance Status as on 30-09-2023
2(xvii)	A detailed progress report should be submitted to the Ministry on each of the conditions stipulated above in respect of the follow-up action taken every six months. The first of these two reports should be sent in by 31.3.1996.	Compliance report of EC conditions is uploaded regularly. A soft copy of last compliance report including results of monitoring data for the period of Oct'22 to Mar'23 was submitted through e-mail to Regional Office of Integrated Regional Office (IRO) @ Gandhinagar, Zonal Office of CPCB @ Baroda, GPCB @ Gandhinagar & Gandhidham and Dept. of Forests & Env., Gandhinagar on dated 30.05.2023. Copy of the same is also available on our web site https://www.adaniports.com/ports-downloads . Please refer below for the details regarding past six compliance submissions. Sr. No. Compliance period Date of submission 1 Apr'20 to Sep'20 26.11.2020 2 Oct'20 to Mar'21 25.05.2021 3 Apr'21 to Sep'21 30.11.2021 4 Oct'21 to Mar'22 30.05.2022 5 Apr'22 to Sep'22 30.11.2022 6 Oct'22 to Mar'23 30.05.2023
2(xviii)	Financial requirements for implementation of the above indicated environmental mitigative measures should be worked out and included in the total cost of the project. Provision for enhancing this allocation in future should also be made.	Complied. Separate budget for the Environment protection measures is earmarked every year. All the expenses are recorded in advanced accounting system of the organization. Details regarding environmental expenditures are as per compliance condition no. 2(xiii) above.

Annexure – 1







"Half Yearly Environmental Monitoring Reports"



M/S. ADANI PORTS & SPECIAL ECONOMIC ZONE LTD.

PLOT NO. 169/P, AT - NAVINAL ISLAND, TAL. - MUNDRA, DIST. - KUTCH - 370421.

Monitoring Period: April - 2023 to September - 2023

Submitted By



UniStar Environment & Research Labs Pvt. Ltd.

White House, Near GIDC Office, Char Rasta, Vapi, Gujarat, India – 396195









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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	Apr	-23	May	y-23	Jun	-23	Jul-	-23	Aug	g-23	Sep-23		TEST METHOD
NO.	PARAMETERS		SURFACE	воттом											
1.	рН		8.22	8.06	8.18	8.05	8.06	7.92	7.98	7.91	8.01	7.89	8.05	7.92	IS 3025 (Part11)1983
2.	Temperature	°C	30.2	30	30.3	30.2	30.2	30.1	30	29.9	30	29.9	29.9	29.8	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	118	96	122	114	124	110	118	102	128	110	144	118	APHA 23 rd Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.8	BDL	2.9	BDL	3	BDL	3.1	BDL	3.2	BDL	2.9	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.32	6.02	6.37	5.96	6.3	5.89	6.22	5.82	6.32	6.02	5.95	5.75	APHA 23 rd Ed.,2017,4500-O, B
6.	Salinity	ppt	36.89	37.18	36.52	37.48	35.84	36.56	35.74	36.33	35.76	36.42	35.24	35.7	By Calculation
7.	Oil & Grease	mg/L	BDL	BDL	IS 3025(Part39) 1991, Amd. 2										
8.	Nitrate as NO₃	μmol/L	3.19	2.54	2.98	2.67	2.84	2.59	2.93	2.76	3.71	3.39	3.06	2.9	APHA 23 rd Ed., 2017,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.388	0.259	0.422	0.336	0.345	0.3	0.3	0.235	0.348	0.304	0.391	0.37	APHA 23 rd Ed.,2017,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.15	2.93	3.45	3.1	2.49	2.06	2.54	2.45	3.42	3.39	3.32	3.26	APHA 23 rd Ed., 2017,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	0.73	0.65	0.6	0.47	0.517	BDL	1.16	1.05	1.26	1.16	1.68	1.47	APHA 23 rd Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.728	5.729	6.852	6.106	5.675	4.95	5.77	5.445	7.478	7.084	6.771	6.53	APHA 23 rd Ed., 2017,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	APHA 23 rd ED,2017,5520 F										
14.	Total Dissolved Solids	mg/L	37050	37640	37156	37890	36860	37422	36430	37106	36524	37156	36630	37102	APHA 23 rd Ed.,2017, 2540- C
15.	COD	mg/L	24.07	12.04	27.97	11.99	32.26	16.13	24.31	12.16	28.31	12.13	15.95	7.98	APHA 23 rd Ed.,2017, 5220-B

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

SR. NO.	TEST PARAMETERS	UNIT	Apr-23		May-23		Jun-23		Jul-23		Aug-2	23	Sep-23		TEST METHOD
			SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α								Phytoplank	cton						
1.	Chlorophyll	mg/m³	3.01	2.56	2.98	3.22	3.05	2.66	2.36	3.24	3.12	3.02	2.99	3.41	APHA (23rd Ed. 2017)10200 H
2.	Phaeophytin	mg/m³	0.98	1.03	1.23	1.44	1.56	1.69	1.42	2.14	1.85	1.15	1.47	2.11	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	79	84	84	142	98	178	125	124	99	105	108	120	APHA (23rd Ed. 2017)10200 F
4	Name of Group	Group umber and name of	Nitzschia	Navicula	Nitzschia	Navicula	Rhizosolen ia	Ceratium	Melosira	Biddulphia	Ceratium	Cyclotella	Coscinodis cus	Nitzschia	APHA (23rd Ed. 2017)10200 F
	Number and		Pinnularia	Fragillaria	Navicula	Fragillaria	Biddulphia	Pinnularia	Pinnularia	Rhizosolen ia	Diploneis	Pinnularia	Diploneis	Pinnularia	,
	group species		Odontella	Thalassiot hrix	Odontella	Thalassiot hrix	Skeletone ma	Odontella	Skeletone ma	Coscinodis cus	Odentella	Skeletone ma	Rhizosolen ia	Odontella	
	or each group		Dinophysis	Grammat ophora	Dinophysis	Grammat ophora	Thallassio sira	Thalassiot hrix	Rhizosolen ia	Skeletone ma	Grammat ophora	Thallassio sira	Dinophysis	Dinophysis	
			Surirella	Surirella	Thallassio sira	Surirella	Thalassion ema	Thallassio sira	Pleurosig ma	Thallassio sira	Melosira	Thalassion ema	Thalassion ema	Surirella	

В		Zooplankton												
1	Abudance(Po pulation)	noX103/ 100 m3	63	33	40 33		33	41	APHA (23rd Ed. 2017)10200 G					
2	Name of Group		Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Decapoda	Decapoda	Egg(Fish and Shrimps)	Crustacean Larvae						
	Number and name of		Oikoplura	Oikoplura	Copepods	Copepods	Oikoplura	Egg(Fish and Shrimps)						
	group species of each group		Copepods nauplii	Copepods nauplii	Crustacean Larvae	Crustacean Larvae	Copepods nauplii	Copepods						
	or each group		Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean						
			Bivalve Larvae	Bivalve Larvae	Oikoplura	Oikoplura	Bivalve Larvae	Bivalve Larvae						
3	Total Biomass	ml/100 m ³	15.32	14.25	15.36	16.58	15.86	16.54						

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

SR.	TEST	UNIT	Apr-2	23	May-23		Jun-2	3	Jul-23		Aug-	23	Sep-23		
NO.	PARAMET ERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	TEST METHOD
С			Microbiological												
1	Total Bacterial Count	CFU/ml	15	50	21	10	278		266		286		254		APHA 23 rd Ed.2017,9215-C
2	Total Coliform	/100ml	4	.0	5	52		44		54		8	51		APHA 23 rd Ed.2017,9222-B
3	Ecoli	/100ml	3	0	3	6	23		36		41		35		IS :15185:2016
4	Enterococ cus	/100ml	2	5	2	2	1	19		22		9	20		IS:15186:2002
5	Salmonell a	/100ml	Abs	sent	Abs	ent	Abs	Absent		sent	Abs	ent	Abs	ent	IS:15187:2016
6	Shigella	/100ml	Abs	sent	Absent		Abs	Absent		Absent		Absent		ent	APHA 23 rd Ed.2017,9260-E
7	Vibrio	/100ml	Abs	sent	Abs	ent	Abs	Absent		Absent		Absent		ent	IS: 5887 (Part V):1976

6

Mr. Nilesh Patel Sr. Chemist CE-LIMITATE VARIE

Mr. Nitin Tandel Technical Manager



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

SR.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.51	0.42	0.47	0.46	0.42	0.48	IS: 2720 (Part 22):1972 RA.2015, Amds.1
2.	Phosphorus as P	μg/g	544.4	490.8	476.5	480.8	464.5	482.4	IS: 10158 :1982, RA.2009 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 23rd ED,2017,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	3.91	4.01	4.11	4.02	3.95	3.97	IS3025(Part 55)2003
5.2	Total Chromium as Cr+3	μg/g	138	114.4	117.2	112.2	115.6	118.2	EPA 3050B/7190 (Extraction &Analytical Method): 1986
5.3	Manganese as Mn	μg/g	580.1	594.4	612.4	627.1	590.4	606.2	EPA 3050B/7460 (Extraction &Analytical Method): 1986
5.4	Iron as Fe	%	3.86	3.92	3.96	3.89	3.85	3.89	EPA 3050B/7380 (Extraction &Analytical Method): 1986
5.5	Nickel as Ni	μg/g	55.28	48.6	41.2	44.28	45.34	41.38	EPA 3050B/7520 (Extraction &Analytical Method): 1986
5.6	Copper as Cu	μg/g	46.35	41.24	36.24	32.64	33.42	36.54	EPA 3050B /7210 (Extraction &Analytical Method):1986
5.7	Zinc as Zn	μg/g	110.8	128.5	119.5	124.2	130.5	124.4	EPA 3050B/7950 (Extraction &Analytical Method): 1986
5.8	Lead as Pb	μg/g	2.31	2.42	2.49	2.41	2.34	2.41	EPA 3050B /7420 (Extraction &Analytical Method):1986
5.9	Mercury as Hg	μg/g	BDL	BDL	BDL	BDL	BDL	BDL	EPA 7471B (Extraction &Analytical Method) :2007

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

SR.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D									
1	Macrobenthos		Amphipods	Amphipods	Polychates	Amphipods	Gastropods	Isopods	APHA (23rd Ed. 2017)10500
			Decapod Larvae	Sipunculids	Gastropods	Decapod Larvae	Isopods	Polychates	С
			Isopods	Isopods	Isopods	Isopods	Amphipods	Sipunculids	
			Gastropods	Gastropods	Sipunculids	Gastropods	Sipunculids	Amphipods	
2	MeioBenthos		Turbellarians	Decapod Larvae	Herpectacoids	Foraminiferan	Polychates	Herpectacoids	
			Herpectacoids	Herpectacoids	Polychates	Turbellarians	Herpectacoids	Decapods Larvae	
3	Population	no/m²	356	333	368	244	250	333	

Resel

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

SR.	TEST	UNIT	Арі	r- 23	Ma	ıy-23	Ju	n-23	Ju	ul-23	Α	ug-23	Se	p-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
1.	pН		8.15	7.91	8.24	8.09	8.16	7.98	8.09	7.96	8.14	7.85	8.11	7.88	IS 3025 (Part11)1983
2.	Temperature	°C	30.1	30.2	30.3	30.2	30.2	30.1	30.1	30	30	29.9	29.8	29.7	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	142	114	128	106	132	110	108	98	142	122	128	106	APHA 23 rd Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.9	BDL	3.1	BDL	2.9	BDL	3.2	BDL	3.3	BDL	2.8	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.22	5.92	6.27	5.86	6.2	5.79	6.12	5.72	6.32	5.81	5.85	5.75	APHA 23 rd Ed.,2017,4500-O, B
6.	Salinity	ppt	36.94	37.24	36.57	37.62	36.24	37.11	36.12	36.48	36.18	36.52	34.89	35.62	By Calculation
7.	Oil & Grease	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025(Part39) 1991, Amd. 2
8.	Nitrate as NO₃	μmol/L	2.97	2.37	3.32	2.8	3.23	2.8	3.45	2.76	3.55	3.06	3.23	2.74	APHA 23 rd Ed., 2017,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.259	0.19	0.371	0.267	0.379	0.344	0.431	0.345	0.456	0.413	0.435	0.391	APHA 23 rd Ed.,2017,4500NO₂B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.49	3.23	4.31	3.79	3.96	2.93	2.84	2.49	3.48	3.39	3.39	3.26	APHA 23 rd Ed., 2017,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	0.47	0.43	0.43	BDL	0.56	0.6	1.47	1.37	1.58	1.37	2.11	1.9	APHA 23 rd Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.719	5.79	8.001	6.857	7.569	6.074	6.721	5.595	7.486	6.863	7.055	6.391	APHA 23 rd Ed., 2017,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 23 rd ED,2017,5520 F
14.	Total Dissolved Solids	mg/L	36700	36930	37110	37640	36860	37520	36288	37124	36308	37142	36340	37160	APHA 23 rd Ed.,2017, 2540- C
15.	COD	mg/L	20.06	8.02	35.96	7.99	40.32	12.1	20.26	8.1	24.26	12.13	19.94	7.98	APHA 23 rd Ed.,2017, 5220-B



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

SR.	TEST	UNIT	Apr	·-23	May	y-23	Jun	-23	Jul	-23	Aug	;-23	Sep	-23	TEST METHOD	
NO.	PARAMETE		SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто		
	RS		E	M	E	M	E	M	E	M	E	M	E	M		
Α								Phyto	plankton							
1.	Chlorophyll	mg/m³	3.12	2.78	2.63	2.89	2.56	3.02	3.02	2.59	3.02	2.84	3.15	3.56	APHA (23rd Ed. 2017)10200 H	
2.	Phaeophyti n	mg/m³	1.54	0.89	0.87	1.36	1.22	2.02	1	1.45	1.4	1.77	1.35	2.47	APHA (23rd Ed. 2017)10200 H	
3.	Cell Count	No. x 10³/L	105	63	86	102	102	102	145	86	125	96	120	127	APHA (23rd Ed. 2017)10200 F	
4	Name of Group		Odentella	Ceratium	Biddulphi a	Ceratium	Thallassio sira	Surirella	Cyclotella	Pinnulari a	Pinnulari a	Coscinodi scus	Thalassio thrix	Odentella	APHA (23rd Ed. 2017)10200 F	
	Number	•		Rhizosole nia	Diploneis	Rhizosole nia	Diploneis	Melosira	Thalassio thrix	Pinnulari a	Dinophysi s	Thalassio nema	Diploneis	Surirella	Rhizosole nia	
	of group		Coscinodi scus	Odentella	Coscinodi scus	Odentella	Nitzschia	Navicula	Skeletone ma	Rhizosole nia	Navicula	Rhizosole nia	Navicula	Coscinodi scus		
	species of each group		Grammat	Grammat	Skeletone	Grammat	Rhizosole	Skeletone	Thallassio	Thallassio	Thallassio	Dinophysi	Thallassio	Grammat		
	each group		ophora	ophora	ma	ophora	nia	ma	sira	sira	sira	s	sira	ophora		
			Thallassio	Melosira	Thallassio	Melosira	Pleurosig	Thallassio	Thalassio	Coscinodi	Skeletone	Thalassio	Skeletone	Thallassio		
			sira		sira		ma	sira	пета	scus	ma	nema	ma	sira		

В					Zoo	plankton			
1	Abudance(Population)	noX103 / 100 m3	45	52	63	60	55	23	APHA (23rd Ed. 2017)10200 G
2	Name of Group		Crustacean Larvae	Crustacean Larvae	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Crustacean Larvae	Copepods nauplii	
	Number and name		Egg(Fish and Shrimps)	Oikoplura	Oikoplura	Oikoplura	Egg(Fish and Shrimps)	Crustacean Larvae	
	of group		Copepods	Copepods	Copepods nauplii	Copepods nauplii	Copepods	Oikoplura	
	species of		Crustacean	Copepods nauplii	Crustacean	Crustacean	Crustacean	Bivalve Larvae	
	each group		Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Oikoplura	
3	Total Biomass	ml/100 m ³	17.41	16.35	17.59	16.88	16.45	14.25	

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

SR.	TEST	UNIT	Apr-23		May-23	Ju	un-23	Jul-23	3	Aug-23	:	Sep-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
С							Microbiologic	cal					
1	Total Bacterial	CFU/ml											APHA 23 rd
	Count		136		180		268	288		186		200	Ed.2017,9215-
													С
2	Total Coliform	/100ml											APHA 23 rd
			43		35		41	31		25		25	Ed.2017,9222-
													В
3	E.coli	/100ml	27		20		22	26		14		27	IS :15185:2016
4	Enterococcus	/100ml	13		11		13	19		10		12	IS:15186:2002
5	Salmonella	/100ml	Absent	t	Absent	Α	bsent	Absen	nt	Absent		Absent	IS:15187:2016
6	Shigella	/100ml											APHA 23 rd
			Absent	t	Absent	Α	bsent	Absen	nt	Absent		Absent	Ed.2017,9260-
													E
7	Vibrio	/100ml	Absent		Absent	Δ.	bsent	Absen	.+	Absent		Absent	IS: 5887 (Part
			Absent	•	Absent	A	DSEIIC	Absell	11	Absent		ADSCIIC	V):1976

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

SR.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.59	0.48	0.41	0.44	0.48	0.44	IS: 2720 (Part 22):1972 RA.2015, Amds.1
2.	Phosphorus as P	μg/g	538.4	554.2	572.2	580.4	568.5	574.6	IS: 10158 :1982, RA.2009 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 23rd ED,2017,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	3.95	4.04	4.12	4.08	4.02	3.98	IS3025(Part 55)2003
5.2	Total Chromium as Cr+3	μg/g	153.4	159.4	155.1	164.2	155.2	159.7	EPA 3050B/7190 (Extraction &Analytical Method): 1986
5.3	Manganese as Mn	μg/g	602.4	642.2	671.8	694.2	648.6	660.8	EPA 3050B/7460 (Extraction &Analytical Method): 1986
5.4	Iron as Fe	%	4.05	4.15	4.12	4.09	4.02	4.08	EPA 3050B/7380 (Extraction &Analytical Method): 1986
5.5	Nickel as Ni	μg/g	49.21	41.03	40.38	41.21	42.36	41.62	EPA 3050B/7520 (Extraction &Analytical Method): 1986
5.6	Copper as Cu	μg/g	4164	41.15	40.33	41.46	42.62	41.23	EPA 3050B /7210 (Extraction &Analytical Method):1986
5.7	Zinc as Zn	μg/g	88.02	102.2	110.4	131.2	134.4	140.6	EPA 3050B/7950 (Extraction &Analytical Method): 1986
5.8	Lead as Pb	μg/g	2.44	2.31	2.24	2.31	2.22	2.09	EPA 3050B /7420 (Extraction &Analytical Method):1986
5.9	Mercury as Hg	μg/g	BDL	BDL	BDL	BDL	BDL	BDL	EPA 7471B (Extraction &Analytical Method) :2007



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

SR.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D						Benthic Organisms	S		
1	Macrobenthos		Gastropods	Decapod Larvae	Amphipods	Amphipods	Sipunculids	Decapods Larvae	APHA (23rd Ed.
			Isopods	Isopods	Polychates	Polychates	Decapods Larvae	Isopods	2017)10500 C
			Amphipods	Amphipods	Isopods	Isopods	Polychates	Amphipods	
			Sipunculids	Sipunculids	Gastropods	Gastropods	Isopods	Sipunculids	
2	MeioBenthos		Polychates	Polychates	Decapods Larvae	Decapods Larvae	Turbellarians	Foraminiferan	
			Herpectacoids	Turbellarians	Herpectacoids	Herpectacoids	Herpectacoids	Herpectacoids	
3	Population	no/m²	301	268	300	360	264	244	

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

SR.	TEST	UNIT	Apr	r-23	May	y-23	Jun	-23	Jul	-23	Aug	g-23	Sep	-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	TEST INICIAOD										
1.	рН		8.14	8.01	8.27	8.11	8.21	8.06	8.11	7.96	8.14	7.88	8.16	7.97	IS 3025 (Part11)1983
2.	Temperature	°C	30.1	30	30.3	30.2	30.1	30	30	29.9	30.1	30	29.9	29.8	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	102	94	110	86	96	74	104	88	114	94	102	86	APHA 23 rd Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3.1	BDL	3	BDL	2.6	BDL	2.8	BDL	2.9	BDL	2.7	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.02	5.81	6.17	5.76	6.1	5.69	6.02	5.62	6.22	5.92	6.05	5.85	APHA 23 rd Ed.,2017,4500-O, B
6.	Salinity	ppt	36.29	37.02	36.24	37.19	36.18	36.88	35.94	36.28	35.98	36.42	35.24	35.81	By Calculation
7.	Oil & Grease	mg/L	BDL	BDL	IS 3025(Part39) 1991, Amd. 2										
8.	Nitrate as NO₃	μmol/L	2.63	2.45	3.1	2.67	3.23	2.59	2.67	2.33	2.9	2.58	2.74	2.58	APHA 23 rd Ed., 2017,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.345	0.302	0.431	0.397	0.293	0.259	0.325	0.235	0.391	0.37	0.456	0.413	APHA 23 rd Ed.,2017,4500NO₂B
10.	Ammonical Nitrogen as NH ₃	μmol/L	2.93	2.8	3.1	2.67	3.97	3.84	2.67	2.58	3.32	3.23	3.42	3.32	APHA 23 rd Ed., 2017,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	0.43	BDL	0.82	0.6	0.56	BDL	1.37	1.26	1.26	1.05	1.58	1.47	APHA 23 rd Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	5.905	5.552	6.631	5.737	7.493	6.689	5.665	5.145	6.611	6.18	6.616	6.313	APHA 23 rd Ed., 2017,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	APHA 23 rd ED,2017,5520 F										
14.	Total Dissolved Solids	mg/L	36200	37120	36820	37622	36210	37330	35860	36540	35910	36572	36080	36640	APHA 23 rd Ed.,2017, 2540- C
15.	COD	mg/L	16.05	8.02	31.97	19.98	36.29	24.19	16.21	8.1	20.22	12.13	15.95	7.98	APHA 23 rd Ed.,2017, 5220-B



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

SR.	TEST	UNIT	Арі	-23	May	y-23	Jun	-23	Jul	-23	Aug	-23	Sep	-23	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α									Phytop	lankton					
1.	Chlorophyll	mg/m ³	3.1	2.45	2.45	2.22	3.2	2.47	2.69	2.98	2.56	2.88	2.57	2.83	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	2.35	0.96	1.65	1.24	1.56	1.44	1.12	1.63	1.32	1.99	1.65	1.52	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	112	124	101	96	140	66	100	88	109	100	147	109	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Pinnularia	Pinnularia	Pinnularia	Pinnularia	Dinophysi s	Rhizosole nia	Grammat ophora	Odentella	Melosira	Pinnularia	Pinnularia	Pinnularia	APHA (23rd Ed. 2017)10200 F
	Number and name		Biddulphi a	Thalassio nema	Dinophysi s	Thalassion ema	Pinnularia	Pinnularia	Rhizosole nia	Rhizosole nia	Pinnularia	Biddulphi a	Biddulphi a	Biddulphi a	, , , , ,
	of group		Navicula	Navicula	Rhizosole nia	Navicula	Thalassiot hrix	Thalassiot hrix	Nitzschia	Coscinodis cus	Skeletone ma	Navicula	Navicula	Navicula	
	species of		Thallassio	Thallassio	Thallassio	Thallassio	Grammat	Grammat	Thalassio	Grammat	Rhizosole	Thallassio	Thallassio	Thallassio	
	each group		sira	sira	sira	sira	ophora	ophora	nema	ophora	nia	sira	sira	sira	
			Skeletone	Skeletone	Coscinodis	Skeletone	Ceratium	Ceratium	Pleurosig	Thallassio	Pleurosig	Skeletone	Skeletone	Skeletone	
			ma	ma	cus	ma	ceratiani	ceratiani	ma	sira	ma	ma	ma	ma	

В						Zooplankton			
1	Abudance(Population)	noX103 / 100 m3	39	40	52	50	50	63	APHA (23rd Ed. 2017)10200 G
2	Name of		Crustacean	Crustacean	Crustacean Larvae	Crustacean Larvae	Crustacean	Copepods	
	Group Number		Copepods nauplii	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Copepods nauplii	Oikoplura	
	and name		Crustacean Larvae	Crustacean Larvae	Copepods	Copepods	Crustacean Larvae	Crustacean Larvae	
	of group		Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	
	species of each group		Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	
3	Total Biomass	ml/100 m ³	17.45	15.24	15.78	17.45	15.26	15.69	



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

SR.	TEST	UNIT	Apr-	-23	May-	23	Jun-2	3	Jul-23		Aug-23	Se	p-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом		
С									Microbiological					
1	Total Bacterial	CFU/ml	20	0	190	,	200		198		254	1	.88	APHA 23 rd
	Count		20	0	190	<u> </u>	200		156		234	-	.00	Ed.2017,9215-C
2	Total Coliform	/100ml	4!	_	20		31		30		42		25	APHA 23 rd
			4.	,	20		31		30		42	<u>'</u>	23	Ed.2017,9222-B
3	E.coli	/100ml	2:	L	16		20		22		31	:	14	IS :15185:2016
4	Enterococcus	/100ml	16	5	10		12		8		20	:	13	IS:15186:2002
5	Salmonella	/100ml	Abs	ent	Abse	nt	Abser	it	Absent		Absent	Ab	sent	IS:15187:2016
6	Shigella	/100ml	Abs	ont	Abse	nt	Abser	.+	Absent		Absent	۸h	sent	APHA 23 rd
			ADS	ent	Abse	nı	Abser	ıı	Absent		Absent	AD	sent	Ed.2017,9260-E
7	Vibrio	/100ml	Abs	ont	Abse	nt	Abser		Absent		Absent	۸h	sent	IS: 5887 (Part
			ADS	ent	Abse	III	Abser	ı	Absent		Ausent	AU	Sent	V):1976

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

SR.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.52	0.54	0.41	0.44	0.52	0.48	IS: 2720 (Part 22):1972
									RA.2015, Amds.1
2.	Phosphorus as P	μg/g	.582.2	574.5	562.2	574.1	566.6	570.4	IS: 10158 :1982, RA.2009
									Method B
3.	Texture		Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No.
									UERL/CHM/LTM/108
4.	Petroleum	μg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 23rd ED,2017,5520 F
	Hydrocarbon								
5.0	Heavy Metals		I						
5.1	Aluminum as Al	%	3.84	3.91	3.95	3.98	4.06	4.01	IS3025(Part 55)2003
5.2	Total Chromium	μg/g	164.2	142.8	129.5	134.8	144.2	138.4	EPA 3050B/7190
	as Cr+3								(Extraction & Analytical
		,		240.4	240.0		240.0	****	Method): 1986
5.3	Manganese as Mn	μg/g	614.9	610.4	618.6	604.4	610.2	616.1	EPA 3050B/7460
									(Extraction & Analytical
F 4	Iron as Fe	0/	4.14	4.06	4.09	4.12	4.06	4.09	Method): 1986 EPA 3050B/7380
5.4	iron as re	%	4.14	4.06	4.09	4.12	4.06	4.09	(Extraction & Analytical
									Method): 1986
5.5	Nickel as Ni	μg/g	56.32	52.2	48.6	44.61	44.25	41.63	EPA 3050B/7520
3.3	NICKEI as IVI	μ6/ 6	30.32	32.2	40.0	44.01	44.23	41.03	(Extraction & Analytical
									Method): 1986
5.6	Copper as Cu	μg/g	36.82	37.14	35.2	36.84	35.54	36.12	EPA 3050B /7210
3.0	copper us cu	P6/ 5	30.02	37.14	33.2	30.04	33.34	30.12	(Extraction & Analytical
									Method):1986
5.7	Zinc as Zn	μg/g	84.65	91.24	101.2	109.1	111.4	114.9	EPA 3050B/7950
		1.0,0							(Extraction &Analytical
									Method): 1986
5.8	Lead as Pb	μg/g	2.81	2.76	2.65	2.44	2.25	2.39	EPA 3050B /7420
									(Extraction & Analytical
									Method):1986
5.9	Mercury as Hg	μg/g	BDL	BDL	BDL	BDL	BDL	BDL	EPA 7471B (Extraction
									&Analytical Method)
									:2007



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

SR.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D					Benthic Or	ganisms			
1	Macrobenthos		Sipunculids	Polychates	Sipunculids	Gastropods	Isopods	Polychates	APHA (23rd Ed.
			Decapods Larvae	Decapods Larvae	Polychates	Isopods	Polychates	Gastropods	2017)10500 C
			Amphipods	Amphipods	Gastropods	Amphipods	Sipunculids	Isopods	•
			Isopods	Isopods	Isopods	Sipunculids	Amphipods	Sipunculids	
2	MeioBenthos		Turbellarians	Foraminiferan	Herpectacoids	Polychates	Polychates	Herpectacoids	
			Herpectacoids	Herpectacoids	Foraminiferan	Herpectacoids	Foraminiferan	Polychates	
3	Population	no/m²	355	355	347	258	368	298	

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

SR.	TEST	UNIT	Apr	-23	May	y-23	Jun	-23	Jul	-23	Aug	g-23	Sep	-23	TECT METHOD
NO.	PARAMETERS		SURFACE	воттом	TEST METHOD										
1.	рН		8.21	8.06	8.26	8.09	8.24	8.01	8.16	8.07	8.14	8.02	8.11	7.96	IS 3025 (Part11)1983
2.	Temperature	°C	30.1	30	30.2	30.1	30.1	30	29.9	29.8	30	29.9	29.8.	29.7.	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	128	114	142	118	126	108	112	106	138	116	132	104	APHA 23 rd Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3	BDL	2.9	BDL	3.1	BDL	3.3	BDL	3.4	BDL	2.8	BDL	IS 3025(Part 4)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.32	6.22	6.17	5.86	6.1	5.79	6.02	5.72	6.12	5.81	5.95	5.75	APHA 23 rd Ed.,2017,4500-O, B
6.	Salinity	ppt	36.67	37.21	35.89	37.44	35.81	36.98	36.14	36.52	36.21	36.64	35.94	36.12	By Calculation
7.	Oil & Grease	mg/L	BDL	BDL	IS 3025(Part39) 1991, Amd.2										
8.	Nitrate as NO₃	μmol/L	3.19	2.33	3.71	3.1	3.45	2.8	2.49	2.32	3.39	3.06	3.06	2.74	APHA 23 rd Ed., 2017,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.388	0.345	0.517	0.422	0.345	0.276	0.259	0.215	0.326	0.283	0.435	0.391	APHA 23 rd Ed.,2017,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.49	3.19	3.45	2.93	3.28	3.1	2.28	2.16	3.53	3.42	3.53	3.39	APHA 23 rd Ed., 2017,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	0.56	0.43	0.52	BDL	0.65	BDL	1.68	1.47	1.9	1.68	2.11	1.79	APHA 23 rd Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	7.068	5.865	7.677	6.452	7.075	6.176	5.029	4.695	7.246	6.763	7.025	6.521	APHA 23 rd Ed., 2017,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	APHA 23 rd ED,2017,5520 F										
14.	Total Dissolved Solids	mg/L	36480	37260	36944	37486	36860	37140	36150	36890	36168	36910	36180	37102	APHA 23 rd Ed.,2017, 2540- C
15.	COD	mg/L	28.08	12.04	15.98	7.99	20.16	12.1	28.36	12.16	28.31	12.13	15.95	7.98	APHA 23 rd Ed.,2017, 5220-B



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

SR.	TEST	UNIT	Арі	r-23	May	y-23	Jun	-23	Jul	-23	Aug	g-23	Sep	-23	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α								Phytopl	ankton						
1.	Chlorophyll	mg/m³	3.41	2.74	3.02	3.26	2.66	3.26	3	3.26	2.98	3.11	3.25	3.68	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	1.25	1.45	1.87	1.33	1.74	1.45	1.63	2.03	2.01	1.88	1.44	1.56	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	101	86	142	99	132	99	99	114	120	102	109	156	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Coscinodis cus	Melosira	Coscinodis cus	Melosira	Thalassiot hrix	Coscinodis cus	Thalassiot hrix	Pinnularia	Cyclotella	Navicula	Coscinodis cus	Coscinodis cus	APHA (23rd Ed. 2017)10200 F
	Number and name		Diploneis	Pinnularia	Surirella	Pinnularia	Surirella	Diploneis	Surirella	Biddulphi a	Pinnularia	Skeletone ma	Diploneis	Diploneis	,
	of group		Rhizosole nia	Skeletone ma	Rhizosole nia	Skeletone ma	Navicula	Rhizosole nia	Navicula	Navicula	Skeletone ma	Rhizosole nia	Rhizosole nia	Rhizosole nia	
	species of each group		Dinophysi s	Rhizosole nia	Pinnularia	Rhizosole nia	Thallassio sira	Dinophysi s	Thallassio sira	Thallassio sira	Thallassio sira	Dinophysi s	Dinophysi s	Dinophysi s	
			Thalassio nema	Pleurosig ma	Thalassio nema	Pleurosig ma	Skeletone ma	Thalassion ema	Skeletone ma	Skeletone ma	Thalassio nema	Thalassion ema	Thalassio nema	Thalassion ema	

В						Zooplankton			
1	Abudance(Population)	noX103 / 100 m3	52	48	44	38	62	48	APHA (23rd Ed. 2017)10200 G
2	Name of Group		Copepods nauplii	Copepods nauplii	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Copepods nauplii	Egg(Fish and Shrimps)	
	Number		Crustacean Larvae	Crustacean Larvae	Oikoplura	Oikoplura	Crustacean Larvae	Oikoplura	
	and name		Oikoplura	Oikoplura	Copepods nauplii	Copepods nauplii	Oikoplura	Copepods nauplii	
	of group		Bivalve Larvae	Bivalve Larvae	Crustacean	Crustacean	Bivalve Larvae	Crustacean	
	species of each group		Oikoplura	Oikoplura	Bivalve Larvae	Bivalve Larvae	Oikoplura	Bivalve Larvae	
3	Total Biomass	ml/100 m³	15.66	14.26	16.25	18.52	17.32	17.58	



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

SR.	TEST	UNIT	Apr-	23	May-23		Jun-23		Jul-23		Aug-23	S	ep-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом		
С								Mic	robiological					
1	Total Bacterial	CFU/ml	15	2	234		254		240		256		250	APHA 23 rd
	Count		13,	_	234		234		240		230		230	Ed.2017,9215-C
2	Total Coliform	/100ml	28	B	32		47		35		50		48	APHA 23 rd Ed.2017,9222-B
3	E.coli	/100ml	15	,	21		23		20		35		30	IS :15185:2016
4	Enterococcus	/100ml	10)	10		16		12		24		21	IS:15186:2002
5	Salmonella	/100ml	Abse	ent	Absent		Absent		Absent		Absent	A	osent	IS:15187:2016
6	Shigella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	٨	osent	APHA 23 rd
			Abse		Absent		Absent		Absent		Absent		J3CIIL	Ed.2017,9260-E
7	Vibrio	/100ml	Abse	nt	Absent		Absent		Absent		Absent	ΔΙ	osent	IS: 5887 (Part
			Abse		Absent		Absent		Absent		Abscrit		350110	V):1976

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

SR.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.62	0.54	0.62	0.74	0.62	0.58	IS: 2720 (Part 22):1972 RA.2015, Amds.1
2.	Phosphorus as P	μg/g	555.1	574.4	582.7	680	658.5	642.6	IS: 10158 :1982, RA.2009 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 23rd ED,2017,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	4.01	4.12	4.08	4.16	4.05	3.96	IS3025(Part 55)2003
5.2	Total Chromium as Cr+3	μg/g	135	132.4	142.2	137.4	142.2	138.9	EPA 3050B/7190 (Extraction &Analytical Method): 1986
5.3	Manganese as Mn	μg/g	580.4	594.6	602.2	644	618	621.4	EPA 3050B/7460 (Extraction &Analytical Method): 1986
5.4	Iron as Fe	%	3.94	3.89	3.91	3.94	3.84	3.88	EPA 3050B/7380 (Extraction &Analytical Method): 1986
5.5	Nickel as Ni	μg/g	44.21	41.6	42.2	48.6	44.5	48.32	EPA 3050B/7520 (Extraction &Analytical Method): 1986
5.6	Copper as Cu	μg/g	50.54	45.62	41.6	38.9	387.6	38.25	EPA 3050B /7210 (Extraction &Analytical Method):1986
5.7	Zinc as Zn	μg/g	74.5	84.2	92.4	102.2	114.2	118.2	EPA 3050B/7950 (Extraction &Analytical Method): 1986
5.8	Lead as Pb	μg/g	2.22	2.38	2.24	2.61	2.51	2.41	EPA 3050B /7420 (Extraction &Analytical Method):1986
5.9	Mercury as Hg	μg/g	BDL	BDL	BDL	BDL	BDL	BDL	EPA 7471B (Extraction &Analytical Method) :2007



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

SR.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D					Benth	ic Organisms			
1	Macrobenthos		Isopods	Amphipods	Foraminiferan	Sipunculids	Foraminiferan	Foraminiferan	APHA (23rd Ed.
			Polychates	Gastropods	Decapods Larvae	Decapods Larvae	Decapods Larvae	Gastropods	2017)10500 C
			Sipunculids	Sipunculids	Amphipods	Amphipods	Amphipods	Isopods	
			Amphipods	Amphipods	Polychates	Isopods	Polychates	Sipunculids	
2	MeioBenthos		Polychates	Polychates	Turbellarians	Turbellarians	Turbellarians	Herpectacoids	
			Foraminiferan	Foraminiferan	Foraminiferan	Herpectacoids	Foraminiferan	Polychates	
3	Population	no/m²	300	289	387	288	342	360	

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

SR.	TEST	UNIT	Apr			y-23	Jun			-23	Aug	g-23	Sep)-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	ĺ										
1.	рН		8.16	7.94	8.08	7.91	7.99	7.91	7.96	7.88	8.12	7.94	8.18	8.05	IS 3025 (Part11)1983
2.	Temperature	°C	30.1	30	30.3	30.2	30.1	30	30	29.9	29.9	28.8	29.8	29.7	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	114	94	130	112	116	76	98	72	108	84	96	76	APHA 23 rd Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.9	BDL	2.8	BDL	2.2	BDL	3.5	BDL	3.2	BDL	2.9	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.32	6.12	6.07	5.65	5.99	5.59	5.92	5.52	6.22	5.81	6.05	5.75	APHA 23 rd Ed.,2017,4500-O, B
6.	Salinity	ppt	36.85	37.11	35.66	37.62	35.62	37.32	35.68	36.24	35.78	36.46	35.12	35.84	By Calculation
7.	Oil & Grease	mg/L	BDL	BDL	IS 3025(Part39)1991, Amd.2										
8.	Nitrate as NO₃	μmol/L	2.63	2.46	2.8	2.37	2.5	2.41	2.37	2.16	2.74	2.42	2.9	2.58	APHA 23 rd Ed., 2017,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.388	0.302	0.431	0.336	0.448	0.431	0.207	0.189	0.261	0.217	0.326	0.304	APHA 23 rd Ed.,2017,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.23	3.1	3.79	2.93	3.36	3.28	2.75	2.62	3.74	3.59	3.59	3.39	APHA 23 rd Ed., 2017,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	0.86	0.65	1.16	0.82	BDL	BDL	BDL	BDL	1.16	1.05	1.68	1.47	APHA 23 rd Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.248	5.862	7.021	5.636	6.308	6.121	5.327	4.969	6.741	6.227	6.816	6.274	APHA 23 rd Ed., 2017,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	APHA 23 rd ED,2017,5520 F										
14.	Total Dissolved Solids	mg/L	36650	37100	36990	37668	36670	37450	36310	37108	36324	37164	35940	36720	APHA 23 rd Ed.,2017, 2540- C
15.	COD	mg/L	24.07	BDL	23.98	11.99	28.22	16.13	24.31	16.21	28.31	16.18	23.93	11.96	APHA 23 rd Ed.,2017, 5220-B



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

SR.	TEST	UNIT	Арі	r-23	May	y-23	Jun	-23	Jul	-23	Aug	g- 23	Sep	-23	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α									Phytopl	ankton					
1.	Chlorophyll	mg/m³	2.69	2.36	3.12	2.66	3.62	2.74	3.44	3.06	3.01	3.12	3.47	2.96	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	1.34	1.85	1.23	1.63	2.01	1.25	1.85	1.98	1.57	1.87	1.63	1.75	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	123	140	111	127	156	142	132	133	88	111	100	109	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Pinnularia	Cyclotella	Rhizosole nia	Rhizosole nia	Cyclotella	Diploneis	Navicula	Coscinodis cus	Grammat ophora	Pinnularia	Diploneis	Ceratium	APHA (23rd Ed. 2017)10200 F
	Number and name		Biddulphi a	Pinnularia	Biddulphi a	Pinnularia	Pinnularia	Rhizosole nia	Fragillaria	Diploneis	Rhizosole nia	Biddulphi a	Rhizosole nia	Diploneis	,
	of group		Navicula	Skeletone ma	Thalassiot hrix	Melosira	Skeletone ma	Nitzschia	Thalassiot hrix	Rhizosole nia	Nitzschia	Navicula	Nitzschia	Odentella	
	species of each group		Thallassio sira	Thallassio sira	Thallassio sira	Thallassio sira	Thallassio sira	Thalassiot hrix	Grammat ophora	Dinophysi s	Thalassio nema	Thallassio sira	Cyclotella	Grammat ophora	
			Skeletone ma	Thalassion ema	Coscinodis cus	Grammat ophora	Thalassio nema	Pleurosig ma	Surirella	Thalassion ema	Pleurosig ma	Skeletone ma	Pleurosig ma	Melosira	

В						Zooplankton			
1	Abudance(Population)	noX103 / 100 m3	51	38	50	41	54	52	APHA (23rd Ed. 2017)10200 G
2	Name of Group		Egg(Fish and Shrimps)	Copepods nauplii	Oikoplura	Oikoplura	Crustacean Larvae	Crustacean Larvae	
	Number and name		Copepods	Copepods	Copepods nauplii	Copepods nauplii	Egg(Fish and Shrimps)	Decapoda	
	of group		Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	Copepods	Copepods	
	species of		Oikoplura	Oikoplura	Crustacean	Crustacean	Crustacean	Crustacean	
	each group		Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	
3	Total Biomass	ml/100 m ³	14.56	13.25	14.25	16.36	15.78	14.6	



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

SR.	TEST	UNIT	Apr-	23	May-23	1	Jun-23		Jul-23		Aug-23	Se	ep-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом		
С								Mid	robiological					
1	Total Bacterial	CFU/ml	190	ס	216		256		254		178		196	APHA 23 rd
	Count													Ed.2017,9215-C
2	Total Coliform	/100ml	36	;	30		65		70		56		63	APHA 23 rd
														Ed.2017,9222-B
3	E.coli	/100ml	27	'	17		41		45		49		42	IS :15185:2016
4	Enterococcus	/100ml	15		10		19		21		29		22	IS:15186:2002
5	Salmonella	/100ml	Abse	ent	Absent		Absent		Absent		Absent	Α	bsent	IS:15187:2016
6	Shigella	/100ml	Abse	ent	Absent		Absent		Absent		Absent	Α	bsent	APHA 23 rd
														Ed.2017,9260-E
7	Vibrio	/100ml	Abse	ent	Absent		Absent		Absent		Absent	Α	bsent	IS: 5887 (Part
														V):1976

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

SR.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.61	0.52	0.49	0.46	0.58	0.55	IS: 2720 (Part 22):1972
									RA.2015, Amds.1
2.	Phosphorus as P	μg/g	537.4	546.3	551.4	542.6	564.2	542.3	IS: 10158 :1982, RA.2009
									Method B
3.	Texture		Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Lab SOP No.
									UERL/CHM/LTM/108
4.	Petroleum	μg/g	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 23rd ED,2017,5520 F
	Hydrocarbon								
5.0	Heavy Metals								
5.1	Aluminum as Al	%	4.04	4.11	4.12	4.08	3.92	3.95	IS3025(Part 55)2003
5.2	Total Chromium	μg/g	91.8	102.4	112.1	118.5	127.5	130.2	EPA 3050B/7190
	as Cr+3								(Extraction &Analytical
									Method): 1986
5.3	Manganese as Mn	μg/g	534.1	554.2	560.8	574.2	580.5	602.2	EPA 3050B/7460
									(Extraction &Analytical
									Method): 1986
5.4	Iron as Fe	%	4.09	3.98	4.02	3.97	4.08	4.11	EPA 3050B/7380
									(Extraction &Analytical
									Method): 1986
5.5	Nickel as Ni	μg/g	42.64	44.38	42.31	44.12	45.38	45.31	EPA 3050B/7520
									(Extraction &Analytical
									Method): 1986
5.6	Copper as Cu	μg/g	49.06	42.64	43.35	48.64	51.24	48.65	EPA 3050B /7210
									(Extraction &Analytical
									Method):1986
5.7	Zinc as Zn	μg/g	88.47	95.34	101.2	104.2	111.6	114.8	EPA 3050B/7950
									(Extraction &Analytical
									Method): 1986
5.8	Lead as Pb	μg/g	2.38	2.44	2.49	2.62	2.54	2.38	EPA 3050B /7420
									(Extraction &Analytical
									Method):1986
5.9	Mercury as Hg	μg/g	BDL	BDL	BDL	BDL	BDL	BDL	EPA 7471B (Extraction
									&Analytical Method)
									:2007



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

SR.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D						Benthic Organisms	5		
1	Macrobenthos		Amphipods	Amphipods	Foraminiferan	Isopods	Foraminiferan	Amphipods	APHA (23rd Ed.
			Decapod Larvae	Decapod Larvae	Gastropods	Polychates	Gastropods	Polychates	2017)10500 C
			Isopods	Isopods	Isopods	Sipunculids	Isopods	Isopods	
			Gastropods	Gastropods	Sipunculids	Amphipods	Sipunculids	Gastropods	
2	MeioBenthos		Foraminiferan	Foraminiferan	Herpectacoids	Polychates	Herpectacoids	Decapods Larvae	
			Herpectacoids	Turbellarians	Polychates	Foraminiferan	Polychates	Herpectacoids	
3	Population	no/m²	320	288	257	308	264	308	

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

SR.	TEST	UNIT	Apr	·-23	Ma	y-23	Jun	-23	Jul	-23	Aug	;-23	Sep	-23	TECT METHOD
NO.	PARAMETERS		SURFACE	воттом	TEST METHOD										
1.	рН		8.06	7.86	8.14	7.92	8.03	7.94	7.97	7.93	7.95	7.86	8.07	7.91	IS 3025 (Part11)1983
2.	Temperature	°C	30.2	30.1	30.3	30.2	30	29.9	29.9	29.8	29.9	29.8	29.8	29.7	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	150	122	134	116	124	102	116	104	134	116	128	102	APHA 23 rd Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.8	BDL	3.3	BDL	2.7	BDL	3.8	BDL	3.5	BDL	2.8	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.22	6.02	6.37	5.86	6.3	5.79	6.22	5.72	6.32	5.81	5.95	5.75	APHA 23 rd Ed.,2017,4500-O, B
6.	Salinity	ppt	36.66	37.06	36.12	37.84	35.89	37.25	35.77	36.25	35.84	36.38	35.31	35.81	By Calculation
7.	Oil & Grease	mg/L	BDL	BDL	IS 3025(Part39)1991, Amd. 2										
8.	Nitrate as NO₃	μmol/L	2.54	2.37	2.8	2.67	2.67	2.33	3.36	3.02	4.19	3.55	3.23	2.9	APHA 23 rd Ed., 2017,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.345	0.302	0.371	0.336	0.325	0.235	0.632	0.31	0.435	0.37	0.609	0.543	APHA 23 rd Ed.,2017,4500NO₂B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.32	3.23	4.31	3.45	2.67	2.58	3.84	3.62	3.95	3.69	3.48	3.32	APHA 23 rd Ed., 2017,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	1.03	0.86	1.08	0.95	0.91	0.73	1.9	1.68	2.11	1.79	2.42	2.32	APHA 23 rd Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.205	5.902	7.481	6.456	5.665	5.145	7.832	6.95	8.575	7.61	7.319	6.763	APHA 23 rd Ed., 2017,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	APHA 23 rd ED,2017,5520 F										
14.	Total Dissolved Solids	mg/L	37460	37780	37532	38060	37110	37680	36840	37060	36766	36952	36420	37070	APHA 23 rd Ed.,2017, 2540- C
15.	COD	mg/L	20.06	4.01	39.96	19.98	28.22	16.13	20.26	4.05	24.26	12.13	11.96	3.99	APHA 23 rd Ed.,2017, 5220-B



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

SR.	TEST	UNIT	Арі	r-23	May	y-23	Jun	-23	Jul	-23	Aug	₃ -23	Sep	-23	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α									Phytopl	ankton					
1.	Chlorophyll	mg/m³	2.87	2.87	2.26	3	2.55	3.21	3.21	3.65	2.47	3.05	3.02	3.48	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	0.74	1.75	0.74	2.03	1.31	2.14	1.33	2.36	1.09	2.89	1.36	2.59	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	121	126	145	117	187	108	150	145	91	158	96	168	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Coscinodis cus	Grammat ophora	Coscinodis cus	Grammat ophora	Coscinodis cus	Nitzschia	Ceratium	Thalassiot hrix	Ceratium	Coscinodis cus	Nitzschia	Fragillaria	APHA (23rd Ed. 2017)10200 F
	Number and name		Diploneis	Rhizosole nia	Diploneis	Rhizosole nia	Diploneis	Grammat ophora	Diploneis	Surirella	Diploneis	Diploneis	Pinnularia	Thalassion ema	, , ,
	of group		Rhizosole nia	Nitzschia	Rhizosole nia	Nitzschia	Rhizosole nia	Diploneis	Odentella	Navicula	Odentella	Rhizosole nia	Odontella	Navicula	
	species of each group		Dinophysi s	Thalassion ema	Dinophysi s	Thalassion ema	Dinophysi s	Thalassiot hrix	Grammat ophora	Thallassio sira	Grammat ophora	Dinophysi s	Dinophysi s	Thallassio sira	
			Thalassio nema	Pleurosig ma	Skeletone ma	Pleurosig ma	Thalassio nema	Pleurosig ma	Melosira	Skeletone ma	Melosira	Thalassion ema	Surirella	Skeletone ma	

В					Zoopla	nkton			
1	Abudance(Population)	noX103 / 100 m3	40	47	55	50	39	47	APHA (23rd Ed. 2017)10200 G
2	Name of Group		Oikoplura	Oikoplura	Decapoda	Decapoda	Egg(Fish and Shrimps)	Nitzschia	
	Number		Copepods nauplii	Copepods nauplii	Copepods	Copepods	Oikoplura	Pinnularia	
	and name		Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	Copepods nauplii	Odontella	
	of group species of		Crustacean	Egg(Fish and Shrimps)	Crustacean	Crustacean	Crustacean	Dinophysis	
	each group		Bivalve Larvae	Crustacean	Oikoplura	Oikoplura	Bivalve Larvae	Surirella	
3	Total Biomass	ml/100 m ³	15.32	16.41	17.45	15.42	16.35	15.68	



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

SR.	TEST	UNIT	Apr-	23	May-23		Jun-23		Jul-23		Aug-23	Se	p-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	вотто	M SURFACE	воттом	SURFACE	воттом		
С								N	/licrobiological					
1	Total Bacterial	CFU/ml	180	,	260		198		202		180	1	66	APHA 23 rd
	Count		100	,	200		150		202		100		00	Ed.2017,9215-C
2	Total Coliform	/100ml	42		40		52		49		45		10	APHA 23 rd
			42		40		52		43		45	<u> </u>	+0	Ed.2017,9222-B
3	E.coli	/100ml	21		31		22		25		20		29	IS :15185:2016
4	Enterococcus	/100ml	20		22		14		19		18		22	IS:15186:2002
5	Salmonella	/100ml	Abse	ent	Absent		Absent		Absent		Absent	Ab	sent	IS:15187:2016
6	Shigella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Ab	sent	APHA 23 rd
														Ed.2017,9260-E
7	Vibrio	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Ab	sent	IS: 5887 (Part
														V):1976

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

SR.	TEST	UNIT	Apr	-23	Ma	y-23	Jun	-23	Jul	-23	Aug	g-23	Sep	-23	TECT METHOD
NO.	PARAMETERS		SURFACE	воттом	TEST METHOD										
1.	pН		8.19	7.86	8.27	8.14	8.24	8.15	8.12	8.02	8.17	8.08	8.24	8.06	IS 3025 (Part11)1983
2.	Temperature	°C	30.1	30.1	30.3	30.2	30.2	30.1	30	29.9	29.9	28.8	29.8	29.7	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	104	122	116	106	112	92	118	94	104	80	94	84	APHA 23 rd Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.5	BDL	3.4	BDL	2.6	BDL	2.9	BDL	3.2	BDL	2.7	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.12	6.02	6.27	5.86	6.2	5.79	6.12	5.72	6.22	5.81	5.95	5.75	APHA 23 rd Ed.,2017,4500-O, B
6.	Salinity	ppt	36.04	37.06	36.24	37.53	36.32	37.11	36.06	36.47	36.24	36.58	35.61	36.02	By Calculation
7.	Oil & Grease	mg/L	BDL	BDL	IS 3025(Part39) 1991, Amd. 2										
8.	Nitrate as NO₃	μmol/L	2.97	2.37	4.05	3.58	3.23	2.59	3.45	2.8	4.03	3.55	3.06	2.74	APHA 23 rd Ed., 2017,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.431	0.302	0.422	0.336	0.413	0.379	0.345	0.276	0.391	0.326	0.456	0.391	APHA 23 rd Ed.,2017,4500NO₂B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.19	3.23	3.1	2.93	3.66	2.93	3.28	3.1	4.06	3.8	3.39	3.26	APHA 23 rd Ed., 2017,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	0.52	0.86	BDL	BDL	0.65	BDL	1.47	1.26	1.68	1.58	2	1.79	APHA 23 rd Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.591	5.902	7.572	6.846	7.303	5.899	7.075	6.176	8.481	7.676	6.906	6.391	APHA 23 rd Ed., 2017,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	APHA 23 rd ED,2017,5520 F										
14.	Total Dissolved Solids	mg/L	36800	37780	37224	38108	36340	37460	36090	36990	35950	36760	36144	36800	APHA 23 rd Ed.,2017, 2540- C
15.	COD	mg/L	20.06	4.01	31.97	11.99	44.35	24.19	20.26	4.05	28.31	8.09	7.98	3.99	APHA 23 rd Ed.,2017, 5220-B



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

SR.	TEST	UNIT	Арг	r-23	May	y-23	Jun	-23	Jul	-23	Aug	₃ -23	Sep	-23	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α									Phytopl	ankton					
1.	Chlorophyll	mg/m³	3.25	2.47	3.25	2.55	3.25	2.36	2.36	3.05	2.77	2.48	3.05	2.47	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	1.12	0.96	1.36	1.01	1.22	1.45	0.85	2.11	1.07	2.18	1.87	1.99	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	104	67	111	112	128	144	80	156	87	79	106	98	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Thalassiot hrix	Skeletone ma	Diploneis	Nitzschia	Pinnularia	Odentella	Pinnularia	Navicula	Odentella	Pinnularia	Odentella	Grammat ophora	APHA (23rd Ed. 2017)10200 F
	Number and name		Surirella	Grammat ophora	Melosira	Grammat ophora	Biddulphi a	Rhizosole nia	Thalassio nema	Skeletone ma	Rhizosole nia	Biddulphi a	Rhizosole nia	Rhizosole nia	,
	of group		Navicula	Nitzschia	Navicula	Odentella	Navicula	Coscinodis cus	Navicula	Rhizosole nia	Coscinodis cus	Navicula	Coscinodis cus	Nitzschia	
	species of		Thallassio	Thalassiot	Rhizosole	Thalassiot	Thallassio	Grammat	Thallassio	Dinophysi	Grammat	Thallassio	Grammat	Thalassion	
	each group		sira	hrix	nia	hrix	sira	ophora	sira	s	ophora	sira	ophora	ema	
			Skeletone	Pleurosig	Skeletone	Melosira	Skeletone	Thallassio	Skeletone	Thalassion	Thallassio	Skeletone	Thallassio	Pleurosig	
			ma	ma	ma	c.osna	ma	sira	ma	ета	sira	ma	sira	ma	

В					Zoopla	nkton			
1	Abudance(Population)	noX103 / 100 m3	36	51	39	43	41	69	APHA (23rd Ed. 2017)10200 G
2	Name of Group		Crustacean Larvae	Crustacean Larvae	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Copepods nauplii	
	Number		Decapoda	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Crustacean Larvae	
	and name		Copepods	Copepods	Copepods nauplii	Copepods nauplii	Copepods nauplii	Oikoplura	
	of group		Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Bivalve Larvae	
	species of each group		Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Oikoplura	
3	Total Biomass	ml/100 m ³	16.32	17.36	14.66	17.52	15.86	17.36	



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

SR.	TEST	UNIT	Apr-	23	May-23		Jun-23		Jul-23		Aug-23	Se	ep-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	1 SURFACE	воттог	M SURFACE	воттом	SURFACE	воттом		
С								N	1icrobiological					
1	Total Bacterial	CFU/ml	262	,	148		166		268		220		190	APHA 23 rd
	Count		202		140		100		200		220		150	Ed.2017,9215-C
2	Total Coliform	/100ml	28		20		35		35		29		31	APHA 23 rd
			20		20				33		23		31	Ed.2017,9222-B
3	E.coli	/100ml	20		8		15		15		16		26	IS :15185:2016
4	Enterococcus	/100ml	12		6		11		11		8		10	IS:15186:2002
5	Salmonella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Al	bsent	IS:15187:2016
6	Shigella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Ab	sent	APHA 23 rd
														Ed.2017,9260-E
7	Vibrio	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Ab	sent	IS: 5887 (Part
														V):1976

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

			INESCETO OT SEE	IIVILIVI AIVALISIS	IMO MIGHT SIPE	OF DOCIMA CIALLIA	11 EE 43 307 E 0	<u>09 43 119]</u>	
SR. NO.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.52	0.57	0.48	0.51	0.46	0.41	IS: 2720 (Part 22):1972
									RA.2015, Amds.1
2.	Phosphorus as P	μg/g	538	544.2	562.2	546.4	580.3	574.2	IS: 10158 :1982, RA.2009
									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 23rd ED,2017,5520 F
5.0	Heavy Metals								
5.1	Aluminum as Al	%	3.81	3.92	3.96	3.89	3.95	4.03	IS3025(Part 55)2003
5.2	Total Chromium	μg/g	102.2	114.3	116.2	112.4	118.6	122.2	EPA 3050B/7190 (Extraction
	as Cr+3								&Analytical Method): 1986
5.3	Manganese as Mn	μg/g	564.2	580.4	587.2	604.5	590.4	602.8	EPA 3050B/7460 (Extraction
									&Analytical Method): 1986
5.4	Iron as Fe	%	4.02	3.86	3.89	3.91	3.94	4.06	EPA 3050B/7380 (Extraction
									&Analytical Method): 1986
5.5	Nickel as Ni	μg/g	44.61	46.57	39.8	40.24	41.25	42.88	EPA 3050B/7520 (Extraction
									&Analytical Method): 1986
5.6	Copper as Cu	μg/g	43.35	40.36	42.61	44.25	42.6	44.68	EPA 3050B /7210 (Extraction
									&Analytical Method):1986
5.7	Zinc as Zn	μg/g	103.3	105.7	110.4	124.1	138.4	142	EPA 3050B/7950 (Extraction
									&Analytical Method): 1986
5.8	Lead as Pb	μg/g	2.61	2.56	2.31	2.37	2.44	2.38	EPA 3050B /7420 (Extraction
		,							&Analytical Method):1986
5.9	Mercury as Hg	μg/g	BDL	BDL	BDL	BDL	BDL	BDL	EPA 7471B (Extraction
									&Analytical Method) :2007



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

SR.	TEST	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D						Benthic Organisms	S		
1	Macrobenthos		Sipunculids	Decapod Larvae	Sipunculids	Decapod Larvae	Polychates	Polychates	APHA (23rd Ed.
			Polychates	Polychates	Polychates	Isopods	Decapods Larvae	Decapods Larvae	2017)10500 C
			Gastropods	Gastropods	Gastropods	Amphipods	Isopods	Isopods	,
			Isopods	Isopods	Isopods	Sipunculids	Sipunculids	Sipunculids	
2	MeioBenthos		Foraminiferan	Foraminiferan	Foraminiferan	Polychates	Herpectacoids	Herpectacoids	
			Polychates	Turbellarians	Turbellarians	Turbellarians	Turbellarians	Turbellarians	
3	Population	no/m²	260	303	320	358	240	290	

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

SR.	TEST	UNIT	Apr	·-23	May	y-23	Jun	ı - 23	Jul	-23	Aug	g-23	Sep	p-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	TEST METHOD
1.	pН		8.19	7.98	8.18	7.96	8.17	7.98	8.14	7.97	8.16	8.01	8.17	8.05	IS 3025 (Part11)1983
2.	Temperature	°C	30.2	30.1	30.3	30.2	30.1	30	29.9	29.8	29.8	29.7	29.8	29.7	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	124	108	118	92	106	86	114	88	154	128	142	118	APHA 23 rd Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3.4	BDL	3.5	BDL	3.2	BDL	2.7	BDL	3.3	BDL	2.6	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.12	6.02	6.07	5.76	5.99	5.69	5.92	5.62	6.12	5.81	5.85	5.75	APHA 23 rd Ed.,2017,4500-O, B
6.	Salinity	ppt	35.88	36.3	35.52	37.23	35.49	36.87	36.34	36.88	36.35	36.94	35.41	35.97	By Calculation
7.	Oil & Grease	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IS 3025(Part39) 1991, Amd. 2
8.	Nitrate as NO₃	μmol/L	2.63	2.37	3.32	2.97	2.84	2.59	2.93	2.76	3.71	3.23	2.9	2.74	APHA 23 rd Ed., 2017,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.302	0.19	0.336	0.267	0.474	0.31	0.3	0.235	0.304	0.283	0.37	0.348	APHA 23 rd Ed.,2017,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	2.93	2.8	3.1	2.67	2.41	1.89	2.54	2.45	3.59	3.42	3.42	3.23	APHA 23 rd Ed., 2017,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	0.47	BDL	0.6	0.52	0.78	BDL	1.79	1.47	2	1.68	2.32	2.11	APHA 23 rd Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	5.862	5.36	6.756	5.907	5.724	4.79	5.77	5.445	7.604	6.933	6.69	6.318	APHA 23 rd Ed., 2017,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	APHA 23 rd ED,2017,5520 F
14.	Total Dissolved Solids	mg/L	37010	37420	37640	38020	37210	37640	36970	37124	36744	37210	36350	36988	APHA 23 rd Ed.,2017, 2540- C
15.	COD	mg/L	16.05	8.02	23.98	11.99	36.29	16.13	16.21	8.1	12.13	4.04	11.96	BDL	APHA 23 rd Ed.,2017, 5220-B



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

SR.	TEST	UNIT	Арі	r-23	May	y-23	Jur	-23	Jul	-23	Aug	g- 23	Sep	-23	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	BOTTOM	SURFACE	воттом	
Α									Phytopl	ankton					
1.	Chlorophyll	mg/m³	3.2	2.41	2.99	3.21	3.06	2.86	2.2	1.66	2.87	2.09	2.98	2.69	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	2.23	2.14	1.45	2.33	1.45	1.34	1.74	0.9	1.84	1.06	1.12	1.45	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	100	104	98	58	124	100	109	94	110	63	111	109	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Navicula	Ceratium	Navicula	Ceratium	Navicula	Skeletone ma	Rhizosole nia	Melosira	Skeletone ma	Coscinodis cus	Dinophysi s	Diploneis	APHA (23rd Ed. 2017)10200 F
	Number and name		Skeletone ma	Melosira	Skeletone ma	Melosira	Skeletone ma	Grammat ophora	Pinnularia	Pinnularia	Grammat ophora	Diploneis	Pinnularia	Rhizosole nia	,
	of group		Rhizosole nia	Odentella	Rhizosole nia	Odentella	Rhizosole nia	Nitzschia	Thalassiot hrix	Skeletone ma	Nitzschia	Rhizosole nia	Thalassiot hrix	Nitzschia	
	species of each group		Dinophysi s	Dinophysi s	Dinophysi s	Dinophysi s	Dinophysi s	Thalassiot hrix	Grammat ophora	Thallassio sira	Thalassiot hrix	Dinophysi s	Grammat ophora	Cyclotella	
			Thalassio nema	Pleurosig ma	Thalassio nema	Fragillaria	Thalassio nema	Pleurosig ma	Ceratium	Thalassion ema	Pleurosig ma	Thalassion ema	Ceratium	Pleurosig ma	

В					Zoopla	nkton			
1	Abudance(Population)	noX103 / 100 m3	47	50	47	39	56	38	APHA (23rd Ed. 2017)10200 G
2	Name of Group		Decapoda	Decapoda	Crustacean Larvae	Crustacean Larvae	Decapoda	Egg(Fish and Shrimps)	
	Number and name		Copepods	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Egg(Fish and Shrimps)	Copepods	Oikoplura	
	of group		Crustacean Larvae	Crustacean Larvae	Copepods	Copepods	Crustacean Larvae	Copepods nauplii	
	species of		Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	
	each group		Oikoplura	Oikoplura	Bivalve Larvae	Bivalve Larvae	Oikoplura	Bivalve Larvae	
3	Total Biomass	ml/100 m ³	14.78	16.52	17.33	18.63	17.42	14.25	



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

SR.	TEST	UNIT	Apr-	23	May-23		Jun-23		Jul-23		Aug-23	Se	p-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом		
С								Mic	robiological					
1	Total Bacterial	CFU/ml	190	0	232		278		254		296		264	APHA 23 rd
	Count		-50										-0.	Ed.2017,9215-C
2	Total Coliform	/100ml	41		50		44		40		52		44	APHA 23 rd
			71		50				70		J2			Ed.2017,9222-B
3	E.coli	/100ml	26		22		23		29		32		30	IS :15185:2016
4	Enterococcus	/100ml	21		15		18		15		22		15	IS:15186:2002
5	Salmonella	/100ml	Abse	ent	Absent		Absent		Absent		Absent	Al	osent	IS:15187:2016
6	Shigella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Al	sent	APHA 23 rd
														Ed.2017,9260-E
7	Vibrio	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Al	osent	IS: 5887 (Part
														V):1976

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

SR.	TEST	UNIT	Apr	-23	May	y-23	Jun	-23	Jul	-23	Aug	;-23	Sep	-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	TEST INIETHOD										
1.	рН		8.08	7.81	8.21	8.06	8.18	7.98	8.16	7.96	8.14	8.03	8.18	8.02	IS 3025 (Part11)1983
2.	Temperature	°C	30.2	30.1	30.2	30.1	30.1	30	29.9	29.8	30	29.9	29.9	29.8	IS 3025 (Part 9)1984
3.	Total	mg/L	104	90	116	102	124	104	132	106	118	102	106	84	APHA 23 rd
	Suspended Solids														Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3.2	BDL	3.6	BDL	3.1	BDL	2.9	BDL	3.4	BDL	2.5	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.02	5.81	6.37	6.07	6.2	5.79	6.22	5.92	6.32	6.02	6.15	5.95	APHA 23 rd Ed.,2017,4500-O, B
6.	Salinity	ppt	36.74	37.13	36.04	37.23	35.92	36.94	36.21	36.67	36.45	36.88	35.34	35.81	By Calculation
7.	Oil & Grease	mg/L	BDL	BDL	IS 3025(Part39) 1991, Amd. 2										
8.	Nitrate as NO₃	μmol/L	3.19	2.97	3.71	3.32	2.59	2.32	2.84	2.59	3.87	3.55	3.06	2.9	APHA 23 rd Ed., 2017,4500 NO3-B
9.	Nitrite as NO ₂	μmol/L	0.388	0.302	0.517	0.431	0.56	0.431	0.474	0.31	0.522	0.478	0.652	0.565	APHA 23 rd Ed.,2017,4500NO ₂ B
10.	Ammonical Nitrogen as NH ₃	μmol/L	3.49	3.19	3.79	3.45	2.49	2.24	2.41	1.89	3.39	3.26	3.32	3.23	APHA 23 rd Ed., 2017,4500- NH3 B
11.	Phosphates as PO ₄	μmol/L	0.6	0.47	0.43	BDL	0.73	0.86	1.26	1.05	1.47	1.26	1.79	1.58	APHA 23 rd Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	7.068	6.462	8.017	7.201	5.64	4.991	5.724	4.79	7.782	7.288	7.032	6.695	APHA 23 rd Ed., 2017,4500 NH3 - B
13.	Petroleum Hydrocarbon	μg/L	N.D.	N.D.	APHA 23 rd ED,2017,5520 F										
14.	Total Dissolved Solids	mg/L	37120	37500	37844	38124	37520	38040	37160	37642	36980	37460	36248	36828	APHA 23 rd Ed.,2017, 2540- C
15.	COD	mg/L	12.04	BDL	39.96	19.98	28.22	16.13	12.16	BDL	16.18	8.09	15.95	3.99	APHA 23 rd Ed.,2017, 5220-B



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

SR.	TEST	UNIT	Арі	-23	May	y-23	Jun	-23	Jul	-23	Aug	g- 23	Sep	-23	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α									Phytopl	ankton					
1.	Chlorophyll	mg/m³	2.21	3.1	3	2.33	2.56	3.05	2.88	2.55	2.12	1.69	2.36	2.34	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	1.56	0.98	2.01	1.22	1.44	1.78	1.65	1.26	0.94	1.01	1.23	1.56	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	102	86	102	88	127	158	152	106	75	102	86	118	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Melosira	Biddulph ia	Melosira	Biddulph ia	Melosira	Ceratium	Coscinod iscus	Thallassi osira	Ceratium	Coscinodi scus	Ceratium	Thallassi osira	APHA (23rd Ed. 2017)10200 F
	Number and name		Pinnulari a	Fragillari a	Dinophys is	Fragillari a	Dinophys is	Pinnulari a	Diploneis	Melosira	Pinnulari a	Surirella	Pinnulari a	Melosira	
	of group species of		Skeleton ema	Odentell a	Skeleton ema	Ceratium	Skeleton ema	Odontell a	Rhizosol enia	Nitzschia	Odontell a	Rhizosole nia	Odontell a	Nitzschia	
	each group		Thallassi osira	Gramma tophora	Thallassi osira	Nitzschia	Thallassi osira	Thalassio thrix	Dinophys is	Rhizosole nia	Thalassio thrix	Pinnulari a	Thalassio thrix	Rhizosole nia	
			Thalassio nema	Melosira	Thalassio nema	Melosira	Thalassio nema	Thallassi osira	Thalassio nema	Pleurosig ma	Thallassi osira	Thalassio nema	Thallassi osira	Pleurosig ma	

В						Zooplankton			
1	Abudance(Population)	noX103 / 100 m3	35	43	49	40	40	25	APHA (23rd Ed. 2017)10200 G
2	Name of		Decapoda	Decapoda	Copepods nauplii	Copepods nauplii	Egg(Fish and Shrimps)	Grammatophora	
	Group		Oikoplura	Oikoplura	Copepods	Copepods	Crustacean Larvae	Rhizosolenia	
	Number		Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	Copepods nauplii	Nitzschia	
	and name		Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Crustacean	Thalassionema	
	of group species of each group		Oikoplura	Crustacean	Crustacean	Crustacean	Bivalve Larvae	Pleurosigma	
3	Total Biomass	ml/100 m ³	15.47	14.56	16.22	15.45	16.23	13.65	



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

SR.	TEST	UNIT	Apr-	23	May-23		Jun-23		Jul-23		Aug-23	S	ep-23	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	BOTTON	M SURFACE	воттом	SURFACE	воттом		
С								M	licrobiological					
1	Total Bacterial	CFU/ml	214	1	200		144		260		274		202	APHA 23 rd
	Count		21.	*	200		144		200		2/4		202	Ed.2017,9215-C
2	Total Coliform	/100ml	41		32		30		50		44		50	APHA 23 rd
			41	•	32		30		50		44		30	Ed.2017,9222-B
3	E.coli	/100ml	25	;	20		12		29		30		42	IS :15185:2016
4	Enterococcus	/100ml	12	!	8		10		11		13		19	IS:15186:2002
5	Salmonella	/100ml	Abse	ent	Absent		Absent		Absent		Absent	А	bsent	IS:15187:2016
6	Shigella	/100ml	Abse		Absout		Absout		Absout		Absent		haant	APHA 23 rd
			Abse	ent	Absent		Absent		Absent		Absent	A	bsent	Ed.2017,9260-E
7	Vibrio	/100ml	Abaa		Absout		Absout		Absout		Absout		baant	IS: 5887 (Part
			Abse	ent	Absent		Absent		Absent		Absent	A	bsent	V):1976

Outel

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RESULTS OF ETP OUTLET WATER

			LIQUID TERMINAL								
SR.NO.	TEST PARAMETERS	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	GPCB	TEST METHOD	
			21-04-2023	29-05-2023	29-06-2023	25-07-2023	25-08-2023	14-09-2023	Limit		
1.	Colour	Pt. Co. Scale	50	40	50	40	50	50	100	IS 3025(Part 4)	
2.	pH @ 27 ° C		7.41	6.74	7.26	7.36	7.44	7.52	6.5 to 8.5	APHA 23 rd Ed.,2017,4500- H ⁺ B	
3.	Temperature	°C	30	31	30.5	30	30	30	40	IS 3025(Part 9)1984	
4.	Total Suspended Solid	mg/L	22	24	26	24	18	32	100	APHA 23 rd Ed.,2017,2540 –D	
5.	Total Dissolved Solids	mg/L	1106	732	804	810	822	840	2100	APHA 23 rd Ed.,2017,2540- C	
6.	COD	mg/L	72.6	76.2	74.3	89.4	80.9	83.6	100	IS 3025(Part 58)2006	
7.	BOD (3 days at 27 °C)	mg/L	20	23	25	27	24	23	30	IS 3025(Part 44)1993Amd.01	
8.	Chloride (as Cl)	mg/L	480.9	332.5	420.1	411.5	391	337.3	600	IS 3025(PART 32) 1988	
9.	Oil & Grease	mg/L	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	10	IS 3025(Part39)1991, Amd. 2	
10.	Sulphate (as SO ₄)	mg/L	102	43.3	40.2	36.6	42.2	46.4	1000	IS 3025(Part 24)1986	
11.	Ammonical Nitrogen	mg/L	22.2	28.4	24.2	22.8	20.6	28.8	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)1992, Amd.2	
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)1992amd.01,	
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 23 rd Ed.,2017,3111-B	



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				LIQUID TERMINAL					GPCB Limit	TEST METHOD
SR.NO.	TEST PARAMETERS	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23		
			21-04-2023	29-05-2023	29-06-2023	25-07-2023	25-08-2023	14-09-2023		
15.	Sulphide as S	mg/L	0.62	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	2	APHA 23 rd Ed.,2017,4500 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 23 rd Ed.,2017,3111-B
17.	Fluoride as F	mg/L	1.03	0.82	0.94	0.86	0.74	0.66	2	APHA 23 rd Ed.,2017,4500 F, D
18.	Residual Chlorine	mg/L	0.74	0.88	0.78	0.64	0.94	0.82	0.5 Min.	APHA 23 rd Ed.,2017,4500-Cl- B
19.	Percent Sodium	%	48.51	48.05	46.74	45.72	46.93	46.94	60	By Calculation
20.	Sodium Absorption ratio		3.51	3.09	2.67	2.86	2.64	2.61	26	By Calculation

Buse

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	Results of Ambient Air Quality Monitoring										
Name	e of Location	CT3 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/m³	CO mg/m³	HC μg/m³	Benzene μg/m³			
1.	03-04-2023	84.38	41.2	38.42	45.72	1.93		NOT DETECTED			
2.	06-04-2023	81.26	36.18	32.54	36.92	1.47	3.58	NOT DETECTED			
3.	10-04-2023	74.72	35.82	26.48	33.24	1.18	5.62	NOT DETECTED			
4.	13-04-2023	78.41	39.16	29.64	36.41	1.16	2.48	NOT DETECTED			
5.	17-04-2023	82.57	40.86	32.28	38.74	1.38	2.51	NOT DETECTED			
6.	20-04-2023	76.38	37.55	27.94	34.19	0.97	4.87	NOT DETECTED			
7.	24-04-2023	81.53	34.27	31.62	37.47	1.12	2.78	NOT DETECTED			
8.	27-04-2023	75.28	36.91	28.47	34.69	0.95	3.94	NOT DETECTED			
9.	01-05-2023	72.59	38.73	36.57	41.38	1.28	6.32	NOT DETECTED			
10.	04-05-2023	78.42	34.65	31.48	35.63	1.16	4.76	NOT DETECTED			
11.	08-05-2023	84.61	41.13	37.64	44.13	1.39	6.58	NOT DETECTED			
12.	11-05-2023	86.74	31.38	30.19	33.53	1.10	4.37	NOT DETECTED			
13.	15-05-2023	80.15	26.78	34.15	39.53	1.15	4.16	NOT DETECTED			
14.	18-05-2023	77.58	34.71	37.14	41.95	1.17	4.85	NOT DETECTED			
15.	22-05-2023	71.31	29.85	26.54	29.36	1.15	3.28	NOT DETECTED			



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Nam	e of Location	CT3 RMU-2									
	Date of Monitoring	Parameter with Results									
Sr. No.		PM ₁₀ μg/m³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO₂ μg/m³	CO mg/m ³	HC μg/m³	Benzene μg/m³			
16.	25-05-2023	75.47	37.53	34.29	39.74	1.28	4.61	NOT DETECTED			
17.	29-05-2023	67.53	31.36	31.11	36.98	1.32	4.74	NOT DETECTED			
18.	01-06-2023	86.95	32.73	29.58	32.56	1	4.81	NOT DETECTED			
19.	05-06-2023	87.39	29.63	25.19	27.41	0.80	3.12	NOT DETECTED			
20.	08-06-2023	82.47	35.38	32.46	35.71	0.5	6.02	NOT DETECTED			
21.	12-06-2023	85.25	30.76	28.38	31.25	0.7	5.68	NOT DETECTED			
22.	15-06-2023	75.23	28.12	16.15	22.98	0.05	4.38	NOT DETECTED			
23.	19-06-2023	62.35	22.12	13.52	17.36	0.05	4.19	NOT DETECTED			
24.	22-06-2023	54.23	20.18	10.44	13.48	0.1	3.45	NOT DETECTED			
25.	26-06-2023	58.1	23.15	8.26	13.54	0.05	3.22	NOT DETECTED			
26.	29-06-2023	52.47	20.12	7.25	12.97	0.03	3.89	NOT DETECTED			
27.	03-07-2023	55.63	19.27	13.58	16.41	ND		NOT DETECTED			
28.	06-07-2023	61.28	23.85	16.43	20.58	ND	ND	NOT DETECTED			
29.	10-07-2023	58.39	20.51	13.1	17.32	ND	ND	NOT DETECTED			
30.	13-07-2023	67.52	23.46	17.59	21.45	ND	1.57	NOT DETECTED			
31.	17-07-2023	55.21	21.99	14.12	18.93	ND	ND	NOT DETECTED			



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Name of Location		CT3 RMU-2								
	Date of Monitoring	Parameter with Results								
Sr. No.		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		
32.	20-07-2023	62.48	24.51	16.53	20.71	ND	ND	NOT DETECTED		
33.	24-07-2023	70.62	26.86	19.25	23.66	ND	2.31	NOT DETECTED		
34.	27-07-2023	64.5	23.45	15.59	18.35	ND	1.86	NOT DETECTED		
35.	31-07-2023	74.38	24.16	17.42	21.63	ND	2.74	NOT DETECTED		
36.	03-08-2023	78.42	27.17	23.85	28.17	0.51	3.1	NOT DETECTED		
37.	07-08-2023	83.74	29.82	24.98	30.52	0.73	3.86	NOT DETECTED		
38.	10-08-2023	73.29	33.52	27.43	32.65	0.91	4.38	NOT DETECTED		
39.	14-08-2023	89.54	30.79	25.14	29.67	0.84	3.95	NOT DETECTED		
40.	17-08-2023	84.82	34.65	28.06	34.29	1	4.63	NOT DETECTED		
41.	21-08-2023	87.57	37.25	33.96	38.11	1.1	5.82	NOT DETECTED		
42.	24-08-2023	80.41	35.76	31.45	36.74	1.06	5.21	NOT DETECTED		
43.	28-08-2023	88.65	31.38	28.91	32.5	0.92	3.4	NOT DETECTED		
44.	31-08-2023	82.18	33.82	30.24	34.62	1	4.27	NOT DETECTED		
45.	04-09-2023	80.43	30.14	25.38	29.71	0.74	3.89	NOT DETECTED		
46.	07-09-2023	85.28	33.87	27.49	32.12	0.87	4.26	NOT DETECTED		
47.	11-09-2023	87.36	35.81	31.57	36.79	0.96	5.36	NOT DETECTED		



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Name of Location		CT3 RMU-2								
	Date of Monitoring	Parameter with Results								
Sr. No.		PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO ₂ μg/m ³	CO mg/m³	HC μg/m³	Benzene μg/m³		
48.	14-09-2023	84.1	31.27	29.14	34.62	0.81	4.92	NOT DETECTED		
49.	18-09-2023	73.79	26.94	23.41	26.63	0.65	3.24	NOT DETECTED		
50.	21-09-2023	78.52	29.63	26.54	30.21	0.8	4.28	NOT DETECTED		
51.	25-09-2023	75.18	28.42	25.77	29.83	0.72	3.85	NOT DETECTED		
52.	28-09-2023	81.84	32.56	29.91	34.52	0.84	4.1	NOT DETECTED		
	ble Value as per	100.0	60.0	80.0	80.0	2.0		5.0		
Te	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		

A

Nikunj D. Patel (Chemist)



Jaivik S. Tandel (Manager - Operations)



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	Results of Ambient Air Quality Monitoring										
Name	Name 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/m ³	NO ₂ μg/m³	CO mg/m³	HC μg/m³	Benzene μg/m³			
1.	03-04-2023	76.48	31.73	26.14	32.87	0.86		NOT DETECTED			
2.	06-04-2023	89.53	38.79	29.47	35.63	0.99	3.12	NOT DETECTED			
3.	10-04-2023	85.1	42.18	33.86	39.25	1.1	2.96	NOT DETECTED			
4.	13-04-2023	78.46	37.67	26.24	31.63	0.89	3.63	NOT DETECTED			
5.	17-04-2023	88.24	45.64	37.11	44.91	1.13	5.1	NOT DETECTED			
6.	20-04-2023	81.39	40.71	33.79	36.15	1.12	3.78	NOT DETECTED			
7.	24-04-2023	86.73	36.28	24.87	27.61	1	3.16	NOT DETECTED			
8.	27-04-2023	89.74	39.56	27.71	31.36	1.10	4.85	NOT DETECTED			
9.	01-05-2023	88.16	41.58	34.82	37.16	1.18	4.87	NOT DETECTED			
10.	04-05-2023	83.84	38.47	31.98	34.64	1.15	3.68	NOT DETECTED			
11.	08-05-2023	86.48	34.21	26.14	31.99	0.97	3.16	NOT DETECTED			
12.	11-05-2023	77.59	39.69	36.83	40.71	1.17	4.28	NOT DETECTED			
13.	15-05-2023	89.36	36.71	29.56	34.41	1	2.95	NOT DETECTED			
14.	18-05-2023	83.17	31.58	24.75	28.78	0.93	3.48	NOT DETECTED			
15.	22-05-2023	80.49	39.78	33.05	38.51	1.13	4.17	NOT DETECTED			



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Nam	e of Location	Near Fire Station								
	Date of			Pai	rameter with Resi	ults				
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		
16.	25-05-2023	87.51	35.93	25.48	31.64	1	3.57	NOT DETECTED		
17.	29-05-2023	81.26	38.46	31.95	38.62	1.14	4.28	NOT DETECTED		
18.	01-06-2023	87.83	36.37	27.41	30.13	0.8	3.26	NOT DETECTED		
19.	05-06-2023	80.38	39.61	31.46	35.57	0.5	4.37	NOT DETECTED		
20.	08-06-2023	85.27	43.58	35.82	37.42	1.00	4.94	NOT DETECTED		
21.	12-06-2023	89.53	37.77	29.64	32.85	0.75	2.9	NOT DETECTED		
22.	15-06-2023	80.53	28.15	17.14	21.54	0.05	3.57	NOT DETECTED		
23.	19-06-2023	56.21	22.1	14.5	19.65	0.02	3.02	NOT DETECTED		
24.	22-06-2023	60.55	18.54	13.56	17.48	0.10	2.35	NOT DETECTED		
25.	26-06-2023	51.48	17	10.25	14.52	0.1	3.35	NOT DETECTED		
26.	29-06-2023	50.28	16.25	9.85	13.25	0.5	2.56	NOT DETECTED		
27.	03-07-2023	58.64	20.27	14.73	17.32	0.02		NOT DETECTED		
28.	06-07-2023	51.39	19.64	12.75	15.43	ND	1.24	NOT DETECTED		
29.	10-07-2023	62.75	23.54	16.42	19.66	ND	2.15	NOT DETECTED		
30.	13-07-2023	66.34	25.61	17.47	22.92	0.04	2.57	NOT DETECTED		
31.	17-07-2023	72.48	28.64	20.51	25.46	0.08	3.12	NOT DETECTED		



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Name	e of Location	Near Fire Station	n					
	Date of			Pa	rameter with Res	ults		
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
32.	20-07-2023	64.96	26.13	18.37	22.45	0.02	2.84	NOT DETECTED
33.	24-07-2023	60.65	25.83	17.32	20.84	ND	3	NOT DETECTED
34.	27-07-2023	69.27	27.61	19.03	24.58	ND	3.37	NOT DETECTED
35.	31-07-2023	77.17	29.76	23.53	27.24	0.1	3.89	NOT DETECTED
36.	03-08-2023	64.97	27.61	20.13	24.86	0.91	1.59	NOT DETECTED
37.	07-08-2023	74.65	30.14	22.97	26.49	0.95	2.16	NOT DETECTED
38.	10-08-2023	71.59	28.7	21.38	23.75	0.82	1.91	NOT DETECTED
39.	14-08-2023	87.64	31.85	24.73	28.05	0.97	2.48	NOT DETECTED
40.	17-08-2023	89.62	38.61	31.28	37.82	1.13	4.73	NOT DETECTED
41.	21-08-2023	81.47	32.57	28.82	33.67	1.04	3.84	NOT DETECTED
42.	24-08-2023	76.73	35.88	30.31	36.47	1.1	4.24	NOT DETECTED
43.	28-08-2023	87.46	30.93	26.42	31.28	0.95	2.38	NOT DETECTED
44.	31-08-2023	82.15	33.73	28.28	34.65	1.00	3.55	NOT DETECTED
45.	04-09-2023	75.62	28.36	24.71	27.35	0.73	2.84	NOT DETECTED
46.	07-09-2023	78.57	31.82	25.61	29.13	0.85	3.15	NOT DETECTED
47.	11-09-2023	83.16	34.77	28.45	32.81	0.92	3.78	NOT DETECTED



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Continue...

Name	e of Location	Near Fire Station	1					
	Date of			Pa	rameter with Resu	ults		
Sr. No.	Monitoring	PM ₁₀ μg/m³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO ₂ μg/m³	CO mg/m³	HC μg/m³	Benzene μg/m³
48.	14-09-2023	80.58	32.19	27.31	31.42	0.71	3.52	NOT DETECTED
49.	18-09-2023	67.33	26.42	21.54	24.77	0.53	1.38	NOT DETECTED
50.	21-09-2023	74.92	29.71	25.64	29.13	0.75	2.04	NOT DETECTED
51.	25-09-2023	70.74	27.25	23.58	26.83	0.63	1.84	NOT DETECTED
52.	28-09-2023	77.28	31.82	26.16	30.32	0.91	3.11	NOT DETECTED
	ble Value as per	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

A

Nikunj D. Patel (Chemist)



Jaivik S. Tandel (Manager - Operations)



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	Results of Ambient Air Quality Monitoring										
Name	e of Location	ADANI PORT – T	UG Berth 600 KL I	Pupm House							
	Date of		Parameter with Results								
Sr. No.	Monitoring	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m ³	NO ₂ μg/m³	CO mg/m³	HC μg/m³	Benzene μg/m³			
1.	03-04-2023	80.47	37.25	29.74	34.28	1.14		NOT DETECTED			
2.	06-04-2023	77.92	45.27	39.16	42.78	0.94	3.16	NOT DETECTED			
3.	10-04-2023	86.74	35.83	31.58	38.64	0.91	2.44	NOT DETECTED			
4.	13-04-2023	81.39	46.93	41.11	48.83	1.17	5.12	NOT DETECTED			
5.	17-04-2023	88.26	36.34	34.26	37.56	1.12	3.73	NOT DETECTED			
6.	20-04-2023	79.39	38.15	30.16	34.92	0.93	1.97	NOT DETECTED			
7.	24-04-2023	84.82	44.79	36.81	39.14	1.00	4.16	NOT DETECTED			
8.	27-04-2023	87.13	39.36	33.43	36.36	0.98	3.37	NOT DETECTED			
9.	01-05-2023	77.48	42.53	33.48	39.64	1.17	4.62	NOT DETECTED			
10.	04-05-2023	83.7	38.65	29.29	32.48	1	3.58	NOT DETECTED			
11.	08-05-2023	79.46	48.49	36.82	43.76	1.23	5.95	NOT DETECTED			
12.	11-05-2023	73.19	44.76	34.03	39.71	1.15	5.13	NOT DETECTED			
13.	15-05-2023	86.79	41.37	27.42	33.91	1.1	3.82	NOT DETECTED			
14.	18-05-2023	80.48	46.42	37.58	41.36	1.17	4.79	NOT DETECTED			
15.	22-05-2023	76.51	40.51	31.49	36.15	1.15	3.67	NOT DETECTED			



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Nam	e of Location	ADANI PORT – TUG Berth 600 KL Pupm House								
	Date of			Pai	rameter with Res	ults				
Sr. No.	Monitoring	PM ₁₀ μg/m³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO₂ μg/m³	CO mg/m ³	HC μg/m³	Benzene μg/m³		
16.	25-05-2023	81.49	38.13	28.67	33.26	1.12	4.18	NOT DETECTED		
17.	29-05-2023	78.41	35.48	25.15	29.69	1	3.64	NOT DETECTED		
18.	01-06-2023	87.48	44.85	31.36	38.57	1	5.23	NOT DETECTED		
19.	05-06-2023	83.96	46.41	36.74	43.55	0.8	5.78	NOT DETECTED		
20.	08-06-2023	87.52	40.78	29.65	36.28	0.75	4.58	NOT DETECTED		
21.	12-06-2023	76.89	36.13	26.25	32.19	0.5	4.02	NOT DETECTED		
22.	15-06-2023	88.56	30.15	14.56	20.98	0.05	3.67	NOT DETECTED		
23.	19-06-2023	60.52	24.14	12.51	17.54	0.02	3.1	NOT DETECTED		
24.	22-06-2023	62.35	21.15	11.28	15.23	0.10	2.59	NOT DETECTED		
25.	26-06-2023	55.14	18.53	9.25	12.89	0.1	2.96	NOT DETECTED		
26.	29-06-2023	56.23	17.55	10.25	14.56	0.5	3.14	NOT DETECTED		
27.	03-07-2023	61.28	23.57	18.76	22.35	0.03		NOT DETECTED		
28.	06-07-2023	67.42	26.78	19.32	21.57	0.06	2.97	NOT DETECTED		
29.	10-07-2023	58.37	21.72	15.48	18.43	ND	1.25	NOT DETECTED		
30.	13-07-2023	64.19	25.91	18.43	21.88	ND	2.36	NOT DETECTED		
31.	17-07-2023	55.1	19.58	14.46	17.85	ND	1.13	NOT DETECTED		



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Name	e of Location	ADANI PORT – TUG Berth 600 KL Pupm House								
	Date of			Pa	rameter with Res	ults				
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		
32.	20-07-2023	69.52	22.47	19.93	22.41	0.02	2.7	NOT DETECTED		
33.	24-07-2023	73.38	25.79	21.31	25.05	0.1	3.16	NOT DETECTED		
34.	27-07-2023	78.53	28.31	20.68	23.36	0.05	3.76	NOT DETECTED		
35.	31-07-2023	65.27	24.65	17.21	21.1	0.03	2.57	NOT DETECTED		
36.	03-08-2023	71.36	30.18	21.57	24.16	0.93	2.96	NOT DETECTED		
37.	07-08-2023	78.65	32.38	22.96	26.02	0.97	3.36	NOT DETECTED		
38.	10-08-2023	86.93	36.61	25.74	27.97	1	3.85	NOT DETECTED		
39.	14-08-2023	81.27	34.06	23.58	26.19	0.95	3.04	NOT DETECTED		
40.	17-08-2023	70.43	37.59	28.83	31.65	1.04	4.25	NOT DETECTED		
41.	21-08-2023	76.53	38.83	31.25	35.61	1.1	4.63	NOT DETECTED		
42.	24-08-2023	88.61	41.41	34.64	38.45	1.12	5.12	NOT DETECTED		
43.	28-08-2023	82.37	37.49	30.91	33.78	1	4.73	NOT DETECTED		
44.	31-08-2023	89.52	34.31	27.88	31.94	0.97	3.62	NOT DETECTED		
45.	04-09-2023	78.35	31.56	23.73	26.38	1.00	4.37	NOT DETECTED		
46.	07-09-2023	81.75	33.38	26.36	30.54	1.04	5.16	NOT DETECTED		
47.	11-09-2023	76.38	30.61	22.95	25.17	1	4.58	NOT DETECTED		



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Name	e of Location	ADANI PORT – T	UG Berth 600 KL I	Pupm House				
	Date of			Pa	rameter with Resi	ults		
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/m³	HC μg/m³	Benzene μg/m³
48.	14-09-2023	83.16	34.65	26.79	30.98	1.05	5.05	NOT DETECTED
49.	18-09-2023	72.48	27.89	21.56	24.35	0.92	3.13	NOT DETECTED
50.	21-09-2023	76.51	30.35	24.66	27.42	1	3.37	NOT DETECTED
51.	25-09-2023	81.49	32.78	27.9	31.67	1.05	4.26	NOT DETECTED
52.	28-09-2023	85.65	36.27	31.52	34.66	1.1	4.75	NOT DETECTED
	ble Value as per NAAQMS	100.0	60.0	80.0	80.0	2.0		5.0
Te	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

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	Results of Ambient Air Quality Monitoring											
Name	e of Location	PUB / Adani Hou	ise									
	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/m³	HC μg/m³	Benzene μg/m³				
1.	03-04-2023	81.59	32.37	12.74	18.52	0.47		NOT DETECTED				
2.	06-04-2023	72.67	26.17	16.53	24.87	1.00	3.19	NOT DETECTED				
3.	10-04-2023	79.71	28.64	11.77	15.14	0.69	3.47	NOT DETECTED				
4.	13-04-2023	85.43	31.38	15.94	19.26	0.56	1.63	NOT DETECTED				
5.	17-04-2023	74.71	24.15	10.68	14.83	0.45	1.29	NOT DETECTED				
6.	20-04-2023	89.12	34.78	18.34	23.18	0.74	4.02	NOT DETECTED				
7.	24-04-2023	70.88	25.12	13.28	17.85	0.38	3.27	NOT DETECTED				
8.	27-04-2023	76.59	23.37	11.25	15.92	0.49	1.76	NOT DETECTED				
9.	01-05-2023	89.16	32.08	14.56	18.34	1.12	2.85	NOT DETECTED				
10.	04-05-2023	73.45	36.51	21.13	26.12	0.85	4.16	NOT DETECTED				
11.	08-05-2023	86.54	28.12	15.76	19.58	1.00	3.31	NOT DETECTED				
12.	11-05-2023	82.61	31.28	20.12	25.74	0.92	5.03	NOT DETECTED				
13.	15-05-2023	85.47	38.64	23.12	27.89	1.00	4.58	NOT DETECTED				
14.	18-05-2023	82.73	29.24	15.48	21.95	0.95	2.84	NOT DETECTED				
15.	22-05-2023	74.91	25.10	12.46	16.32	1.07	2.36	NOT DETECTED				



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Nam	e of Location	PUB / Adani Hou	ıse					
	Date of			Pa	rameter with Res	ults		
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
16.	25-05-2023	69.55	22.47	14.36	17.85	0.90	2.14	NOT DETECTED
17.	29-05-2023	76.82	28.53	11.34	15.62	1.10	3.64	NOT DETECTED
18.	01-06-2023	83.49	34.61	17.32	22.92	1.00	3.70	NOT DETECTED
19.	05-06-2023	86.37	31.79	14.37	17.42	0.95	3.42	NOT DETECTED
20.	08-06-2023	81.94	27.37	12.47	16.33	0.07	3.10	NOT DETECTED
21.	12-06-2023	85.65	29.48	15.89	18.62	0.05	2.68	NOT DETECTED
22.	15-06-2023	72.56	25.14	13.21	17.25	0.02	2.55	NOT DETECTED
23.	19-06-2023	52.12	20.15	10.25	15.23	0.04	3.14	NOT DETECTED
24.	22-06-2023	54.12	17.25	9.25	14.30	0.05	2.36	NOT DETECTED
25.	26-06-2023	48.53	15.23	8.25	12.78	0.02	2.05	NOT DETECTED
26.	29-06-2023	45.25	14.28	7.60	11.21	0.05	2.54	NOT DETECTED
27.	03-07-2023	49.42	18.68	11.42	14.37	NOT DETECTED		NOT DETECTED
28.	06-07-2023	54.31	21.63	7.48	10.31	NOT DETECTED	NOT DETECTED	NOT DETECTED
29.	10-07-2023	46.78	17.42	6.30	8.54	NOT DETECTED	NOT DETECTED	NOT DETECTED
30.	13-07-2023	40.32	14.69	5.87	8.13	NOT DETECTED	NOT DETECTED	NOT DETECTED
31.	17-07-2023	43.25	15.74	7.53	12.74	NOT DETECTED	NOT DETECTED	NOT DETECTED



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Nam	e of Location	PUB / Adani Ho	ıse					
	Date of			Pai	ameter with Res	ults		
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.	20-07-2023	51.99	17.53	10.18	13.89	NOT DETECTED	NOT DETECTED	NOT DETECTED
33.	24-07-2023	57.47	21.71	13.52	17.85	NOT DETECTED	NOT DETECTED	NOT DETECTED
34.	27-07-2023	49.74	18.63	11.57	14.38	NOT DETECTED	NOT DETECTED	NOT DETECTED
35.	31-07-2023	55.39	20.95	14.42	18.61	NOT DETECTED	NOT DETECTED	NOT DETECTED
36.	03-08-2023	57.93	22.48	14.23	19.45	NOT DETECTED	NOT DETECTED	NOT DETECTED
37.	07-08-2023	63.67	23.95	16.83	22.49	0.57	1.37	NOT DETECTED
38.	10-08-2023	69.72	25.65	19.70	25.18	0.84	1.95	NOT DETECTED
39.	14-08-2023	76.82	28.10	21.16	27.54	0.96	2.84	NOT DETECTED
40.	17-08-2023	88.54	31.79	18.28	23.93	0.73	3.16	NOT DETECTED
41.	21-08-2023	71.91	34.92	22.57	28.88	1.00	4.73	NOT DETECTED
42.	24-08-2023	76.48	37.63	25.91	31.45	1.13	5.28	NOT DETECTED
43.	28-08-2023	86.54	29.35	20.77	24.14	0.93	3.54	NOT DETECTED
44.	31-08-2023	81.38	26.59	17.24	23.45	0.81	3.12	NOT DETECTED
45.	04-09-2023	67.38	24.75	16.26	20.81	0.63	2.18	NOT DETECTED
46.	07-09-2023	73.26	27.42	18.91	23.74	0.74	2.65	NOT DETECTED
47.	11-09-2023	69.87	25.94	17.43	21.65	0.57	2.38	NOT DETECTED



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Name	e of Location	PUB / Adani Hou	ise					
	Date of			Pa	rameter with Resu	ults		
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
48.	14-09-2023	75.13	29.41	20.87	25.36	0.83	3.18	NOT DETECTED
49.	18-09-2023	63.69	21.83	14.27	18.50	0.41	1.86	NOT DETECTED
50.	21-09-2023	68.26	23.71	16.32	20.81	0.59	2.11	NOT DETECTED
51.	25-09-2023	72.47	24.60	17.91	22.53	0.80	2.87	NOT DETECTED
52.	28-09-2023	76.19	26.74	20.45	25.18	0.87	3.41	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

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	Results of Noise Level Monitoring										
Lo	ocation Name	CT3 RMU-2									
Sr. No.	Sampling Date and			Noise Level Leq. d							
5111161	Time	13-04-2023	11-05-2023	12-06-2023	13-07-2023	14-08-2023	14-09-2023				
1	06:00 to 07:00	64.1	62.5	63.5	60.9	61.3	65.1				
2	07:00 to 08:00	66.7	61.5	66.9	63.1	64.8	67.4				
3	08:00 to 09:00	68.3	60.5	67.5	65.4	65.4	64.8				
4	09:00 to 10:00	64.3	62.3	68.6	63.7	63.7	67.4				
5	10:00 to 11:00	67.8	60.5	61.5	63.9	64.3	69.7				
6	11:00 to 12:00	62.9	63.4	66.4	67	68.5	67.4				
7	12:00 to 13:00	67.9	64.2	68.9	67.8	66.2	68.3				
8	13:00 to 14:00	64.5	65.5	69.5	63.8	64.2	67.1				
9	14:00 to 15:00	68.3	64.9	64.5	63.2	65.7	69.9				
10	15:00 to 16:00	62.9	63.6	66.2	64.2	63.2	65.4				
11	16:00 to 17:00	67.5	65.3	60.2	62.4	62.4	67.5				
12	17:00 to 18:00	67.1	62.8	65.5	61.6	61.6	63.7				
13	18:00 to 19:00	68.4	63.4	68.9	65.9	64.1	65.3				
14	19:00 to 20:00	64.6	65.5	68.5	69.9	63.2	65.7				
15	20:00 to 21:00	67.4	62.8	63.2	67.2	65.4	63.1				
16	21:00 to 22:00	62.6	60.5	59.7	64.1	62.5	62.8				
	Day Time			<75 dE	3 (A)						



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Lo	ocation Name	CT3 RMU-2	RMU-2					
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) – Night Time						
31.140.	Time	13-04-2023	11-05-2023	12-06-2023	13-07-2023	14-08-2023	14-09-2023	
1	22:00 to 23:00	62.8	62.5	60.5	60.3	62.4	60.1	
2	23:00 to 24:00	60.4	62.3	59.8	63.2	64.8	63.5	
3	24:00 to 01:00	59.4	62.3	59.8	61.7	63.8	62.7	
4	01:00 to 02:00	58.8	61.6	60.3	62.1	61.7	60.2	
5	02:00 to 03:00	59.8	57.8	58.5	60.4	62.7	57.6	
6	03:00 to 04:00	58.5	55.9	60.5	64.5	59.4	59.3	
7	04:00 to 05:00	57.5	55.5	60.5	62.5	60.3	60.4	
8	05:00 to 06:00	58.9	58.2	59.4	58.4	58.1	59.8	
Night Time <70 dB (A)								

Test Method	IS: 9989 : 1981
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Nikunj D. Patel (Chemist)

GUJARAT VAPL

Jaivik S. Tandel (Manager - Operations)



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	Results of Noise Level Monitoring									
Lo	ocation Name	Near Fire Station								
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Day Time								
	Time	06-04-2023	04-05-2023	05-06-2023	06-07-2023	07-08-2023	07-09-2023			
1	06:00 to 07:00	63.8	63.4	63.5	64.3	65.1	64.2			
2	07:00 to 08:00	67.4	65.2	64.2	67.5	68.4	66.8			
3	08:00 to 09:00	62.1	64.2	62.5	63.2	65.3	67.5			
4	09:00 to 10:00	64.2	60.7	64.5	64.9	66.8	68.1			
5	10:00 to 11:00	69.7	60.5	62.9	62.1	64.3	66.8			
6	11:00 to 12:00	63.2	62.7	66.7	67.5	68.1	65.3			
7	12:00 to 13:00	65.8	60.6	65.3	63.8	64.9	67.7			
8	13:00 to 14:00	67.3	59.7	66.7	65.9	67.1	66.9			
9	14:00 to 15:00	67.1	58.5	62.9	67.1	65.2	68.5			
10	15:00 to 16:00	64.9	61.2	64.2	62.4	63.5	66.4			
11	16:00 to 17:00	61.9	65.3	62.5	67.5	66.8	67.5			
12	17:00 to 18:00	64.1	62.8	69.2	64.8	62.9	64.3			
13	18:00 to 19:00	63.6	64.2	64.5	61.2	63.6	62.6			
14	19:00 to 20:00	64.8	61.8	62.3	60.9	58.6	62.9			
15	20:00 to 21:00	61.2	60.5	60.6	64.7	62.4	63.7			
16	21:00 to 22:00	63.6	59.5	60.1	63.4	61.5	60.6			
	Day Time			<75 dE	3 (A)					



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Lo	ocation Name	Near Fire Station						
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Night Time						
31.140.	Time	06-04-2023	04-05-2023	05-06-2023	06-07-2023	07-08-2023	07-09-2023	
1	22:00 to 23:00	58.2	61.8	60.1	60.3	61.5	55.4	
2	23:00 to 24:00	56.9	64.5	59.7	61.8	59.7	59.2	
3	24:00 to 01:00	57.2	63.9	60.5	62.8	61.8	63.5	
4	01:00 to 02:00	60.2	64.5	54.2	60.7	62.9	62.8	
5	02:00 to 03:00	57.6	57.5	64.5	61.4	60.3	60.2	
6	03:00 to 04:00	55.3	59.2	57.8	63.6	62.4	57.3	
7	04:00 to 05:00	55.5	60.5	56.2	64.5	60.1	55.4	
8	05:00 to 06:00	57.8	62.5	58.9	62.7	59.5	59.3	
Night Time <70 dB (A)								

Test Method	IS: 9989 : 1981
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A

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	Results of Noise Level Monitoring									
Lo	ocation Name	ADANI PORT – TUG Berth 600 KL Pump House								
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Day Time								
5111161	Time	10-04-2023	08-05-2023	08-06-2023	10-07-2023	10-08-2023	11-09-2023			
1	06:00 to 07:00	61.3	61.5	62.6	62.7	63.7	63.8			
2	07:00 to 08:00	64.9	60.5	68.3	65.4	66.2	65.3			
3	08:00 to 09:00	63.2	62.3	64.2	63.9	66.9	67.1			
4	09:00 to 10:00	67.4	60.5	69.8	67	68.4	66.8			
5	10:00 to 11:00	65.9	63.4	62.2	67.8	65.4	68.4			
6	11:00 to 12:00	63.5	64.2	68.8	63.8	62.5	65.2			
7	12:00 to 13:00	61.3	69.5	65.2	63.2	61.8	66.8			
8	13:00 to 14:00	64.8	69.2	66.1	62.4	64.6	65.3			
9	14:00 to 15:00	69.5	69.5	60.6	62.5	63.2	68.3			
10	15:00 to 16:00	66.3	68.2	61.8	67.1	66.9	67.2			
11	16:00 to 17:00	68.1	67.5	62.5	63.9	65.3	69.2			
12	17:00 to 18:00	59.8	68.5	63.2	64.2	65.1	67.4			
13	18:00 to 19:00	64.9	64.2	65.4	62.6	64.7	63.8			
14	19:00 to 20:00	63.2	61.8	62.1	63.3	63.6	63.5			
15	20:00 to 21:00	64.6	60.1	60.2	66.1	64.5	62.6			
16	21:00 to 22:00	60.1	63.5	58.9	59.9	60.1	61.3			
	Day Time			<75 d	В (А)					



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Lo	Location Name ADANI PORT – TUG Berth 600 KL Pump House							
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Night Time						
31.110.	Time	10-04-2023	08-05-2023	08-06-2023	10-07-2023	10-08-2023	11-09-2023	
1	22:00 to 23:00	60.6	57.5	61.9	63.9	60.8	57.7	
2	23:00 to 24:00	60.5	55.6	62.7	62.3	61.8	60.1	
3	24:00 to 01:00	56.7	57.2	63.8	55.3	63.8	61.4	
4	01:00 to 02:00	63.5	55.8	64.5	58.3	62.1	61.9	
5	02:00 to 03:00	62.8	54.2	60.5	56.5	58.3	58.3	
6	03:00 to 04:00	64.5	54.9	63.2	58.8	56.9	55.2	
7	04:00 to 05:00	62.3	61.2	60.4	60.7	59.1	56.7	
8	05:00 to 06:00	61.5	59.5	60.1	60.1	57.3	58.6	
	Day Time			<70 (dB (A)			

Test Method	IS: 9989 : 1981
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	Results of Noise Level Monitoring									
Lo	ocation Name	PUB/Adani House								
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Day Time								
31.140.	Time	03-04-2023	01-05-2023	01-06-2023	03-07-2023	03-08-2023	04-09-2023			
1	06:00 to 07:00	67.5	61.9	61.3	62.5	60.5	62.8			
2	07:00 to 08:00	63.2	63.5	63.5	60.9	62.7	63.9			
3	08:00 to 09:00	67.4	66.1	66.7	63.2	64.1	65.3			
4	09:00 to 10:00	64.8	67.8	67.5	67.4	65.4	63.7			
5	10:00 to 11:00	65.3	62.4	62.4 68.6 65.2		68.4	63.1			
6	11:00 to 12:00	69.1	65.4	61.5	68.9	67.3	64.7			
7	12:00 to 13:00	67.4	63.9	66.4	64.8	63.2	66.1			
8	13:00 to 14:00	66.9	64.5	68.9	62.3	62.3	63.7			
9	14:00 to 15:00	68.4	64.3	66.7	68.6	65.8	64.6			
10	15:00 to 16:00	65.7	65.8	67.1	61.2	60.3	62.8			
11	16:00 to 17:00	62.7	69.4	68.5	67.2	64.3	64.1			
12	17:00 to 18:00	65.9	65.4	68.5	65.5	66.7	65.3			
13	18:00 to 19:00	61.5	66.1	66.9	63.4	62.4	62.7			
14	19:00 to 20:00	64.6	63.8	62.5	64.7	63.8	63.2			
15	20:00 to 21:00	63.6	63.5 63.3 61.4 60		60.4	64.6				
16	21:00 to 22:00	64.9	62.6	58.9	60.1	59.7	61.4			
	Day Time			<75 (dB (A)					



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Lo	ocation Name	PUB/Adani House						
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Night Time						
31.110.	Time	03-04-2023	01-05-2023	01-06-2023	03-07-2023	03-08-2023	04-09-2023	
1	22:00 to 23:00	58.6	58.5	60.2	56.8	58.2	56.8	
2	23:00 to 24:00	57.5	58.3	62.5	59.4	60.1	56.9	
3	24:00 to 01:00	58.2	57.5	60.4	60.2	60.7	58.4	
4	01:00 to 02:00	56.9	57.8	60.4	57.1	58.3	61.3	
5	02:00 to 03:00	58.5	55.9	60.5	57.3	57.3	59.7	
6	03:00 to 04:00	57.5	55.5	59.6	62.9	59.4	55.4	
7	04:00 to 05:00	56.5	58.2	58.5	60.2	61.2	58.2	
8	05:00 to 06:00	57.2	57.5	59.7	59.8	57.3	56.1	
	Day Time			<70	dB (A)			

Test Method	IS: 9989 : 1981
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	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	
				Apr-23					
1	Particulate Matter	mg/Nm³	22.86	19.76	21.38	19.06	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO ₂	ppm	6.10	6.53	8.69	8.17	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NO _X	ppm	19.34	21.84	20.17	21.35	50	IS 11255 (Part - 7)	
				May-23					
1	Particulate Matter	mg/Nm³	20.15	19.14	22.85	21.35	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO2	ppm	6.38	6.23	7.46	8.68	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NOX	ppm	21.64	20.37	18.87	22.31	50	IS 11255 (Part - 7)	
				Jun-23					
1	Particulate Matter	mg/Nm³	21.35	16.39	21.13	21.87	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO ₂	ppm	8.68	6.57	7.28	8.90	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NO _X	ppm	22.31	19.36	19.45	21.18	50	IS 11255 (Part - 7)	
				Jul-23					
1	Particulate Matter	mg/Nm³	21.87	17.68	19.52	20.75	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO ₂	ppm	8.90	5.95	5.79	7.59	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NO _x	ppm	21.18	16.26	16.41	19.63	50	IS 11255 (Part - 7)	



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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			
	Aug-23										
1	Particulate Matter	mg/Nm³	19.18	20.15	22.37	23.61	150	IS 11255 (Part - 1)			
2	Sulphur Dioxide as SO ₂	ppm	8.10	6.08	8.13	9.82	100	IS 11255 (Part - 2)			
3	Oxides of Nitrogen as NO _x	ppm	22.85	18.57	20.42	22.45	50	IS 11255 (Part - 7)			
				Sep-23							
1	Particulate Matter	mg/Nm³	17.84	18.93	20.47	21.11	150	IS 11255 (Part - 1)			
2	Sulphur Dioxide as SO ₂	ppm	7.65	6	7.28	9.20	100	IS 11255 (Part - 2)			
3	Oxides of Nitrogen as NO _X	ppm	21.10	17.26	18.57	19.89	50	IS 11255 (Part - 7)			

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	Results of Stack Monitoring							
Sr.	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)	GPCB	GPCB Method of Test
IVO.			Sep-23		Aug-23	LIIVIII		
			22-09-2023	04-08-2023	04-08-2023	04-08-2023		
1	Particulate Matter	mg/Nm³	25.48	18.42	20.81	19.32	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	9.96	15.27	17.65	15.75	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _x	ppm	19.32	27.58	29.14	22.49	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	4.19	4.1	3.8	3.6		UERL/AIR/SOP/18
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected		UERL/AIR/SOP/27
Sr.	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	GPCB LIMIT	Method of Test
NO.				Aug-23			LIIVIII	
			05-08-2023	05-08-2023	05-08-2023	06-08-2023		
1	Particulate Matter	mg/Nm³	24.39	27.83	21.95	22.74	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	9.65	9.96	9.34	8.58	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO _X	ppm	21.26	23.54	19.11	28.63	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	3.8	5.12	4.1	3.16		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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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	GPCB LIMIT	Method of Test
			06-08-2023	06-08-2023	06-08-2023	06-08-2023		
1	Particulate Matter	mg/Nm³	26.35	23.74	28.53	22.61	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO ₂	ppm	7.26	9.89	9.48	8.48	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NOx	ppm	30.41	29.38	29.61	26.54	50	IS 11255 (Part - 7)
4	Carbon Monoxide	mg/Nm3	3.93	5.12	5.84	3.91		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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RESULTS OF BORE HOLE WATER

CD NO	SR.NO. TEST PARAMETERS	LINUT	Pump House-1	Pump House-2	Pump House-3	Near Unloading bays	Near ETP	TEST METHOD
SK.NO.		UNIT	01-09-2023	01-09-2023	01-09-2023	01-09-2023	01-09-2023	TEST METHOD
1.	pH @ 25 ° C		8.37	8.08	8.48	8.49	7.67	IS 3025(Part 11)1983
2.	Salinity	ppt	2.46	0.89	0.37	0.43	5.82	APHA 23 rd Ed.,2017,2520 B
3.	Oil & Grease	mg/L	BDL(MDL:5.0)	BDL(MDL:5.0)	BDL(MDL:5.0)	BDL(MDL:5.0)	BDL(MDL:5.0)	IS 3025(Part39)1991, Amd. 2
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 23 rd Ed.,2017,3114-C
7.	Nickel as Ni	mg/L	0.064	0.055	0.035	0.029	0.252	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	0.014	0.014	BDL(MDL:0.003)	0.012	0.149	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 23 rd Ed.,2017, 3112-B
11.	Zinc as Zn	mg/L	0.076	0.065	0.062	0.061	0.137	IS 3025(PART 49) 1994
12.	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)	IS 3025 (PART 42) 1992
13.	Iron as Fe	mg/L	0.369	0.946	0.178	0.146	0.457	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	1.92	2.14	1.9	2.1	2.06	

Eisel

Mr. Nilesh Patel Sr. Chemist



Hal

Mr. Nitin Tandel Technical Manager



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	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					
2	Sulphur Dioxide SOX	mg/Nm3	4 mg/Nm3					
3	Oxides of Nitrogen NOX	mg/Nm3	5 mg/Nm3					



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	ETP Water								
Sr. No.	Test Parameter	Unit	MDL						
1	Colour	Pt. Co. Scale	5						
2	pH @ 27 ° C		2						
3	Temperature	OC	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	2						
10	Sulphate (as SO4)	mg/L	1						
11	Ammonical Nitrogen	mg/L	2						
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								



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	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 NO₃	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					



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	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						



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ISO 9001:2015 Certified Company

	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						

Annexure – 2



Details of Greenbelt Development at APSEZ, Mundra

	Total Green Zone Detail till Up to September 2023						
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	775082.00	131156.00	425984.27	265148.18		
		9062	38.00				



Details of Mangrove Afforestation done by APSEZ

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
	Total		3890			

Annexure – 3

Kutch CSR

Six Monthly Report

2023-24













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

Preface

Taking inspiration from the philosophy of our Chairman of trusteeship, the Adani Foundation strives to create sustainable opportunities. It does so by facilitating quality education, enabling the youth with income-generating skills, promoting a healthy society by women empowerment and supporting infrastructure development.

With an aim to contribute to the holistic development of communities, the Adani Foundation is contributing to the global agenda of meeting Sustainable Development Goals (SDGs).

Adani Foundation Gujrat sites are catalyst for rural communities residing in villages of Kutch,,
Surat and Bharuch District. AF has transformed

thousands of lives by serving community to uplift their standard of living by performing CSR activities in various in terms of Infrastructure, Social development, Education, Agriculture, Women empowerment, Water conservation and management and empowering fishermen and Tribal community.

Pankti Shah Head CSR Gujrat Adani Foundation

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CSR Kutch

Demographic Details

Block	Villages	No. of HHs	Population
Mundra	61 Village and 9 Fishermen Vasahat	35192	153179
Anjar	3 Villages	4350	18500
Nakhtrana	8 Villages	4093	16373
Bite – Abdasa	12 Villages	2415	9660

- 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 Panel Making Unit
- Green to PVC Mundra Limited
- 8. Adani Kandla Bulk Terminal Port Pvt Limited
- 9. Adani Solar Limited Bitta, Abdasa
- 10. Adani Green Energy Limited Nakhatrana
- 11. Adani Green Energy Limited Khavda
- 12. Adani Transmission Limited Mandvi



Action to environment Sustainability



The environment and biodiversity serve as the lifeblood of our planet, playing a crucial role in maintaining ecological balance and sustaining life in all its diverse forms.

Preserving them is more than a necessity; it is a shared responsibility to secure the health and well-being of both present and future generations.

Adani Foundation embodies this commitment through its varied environmental projects.

These range from extensive tree plantation and mangrove restoration to innovative biogas provision, drip irrigation, groundwater recharging, and water conservation.

Water Conservation Project

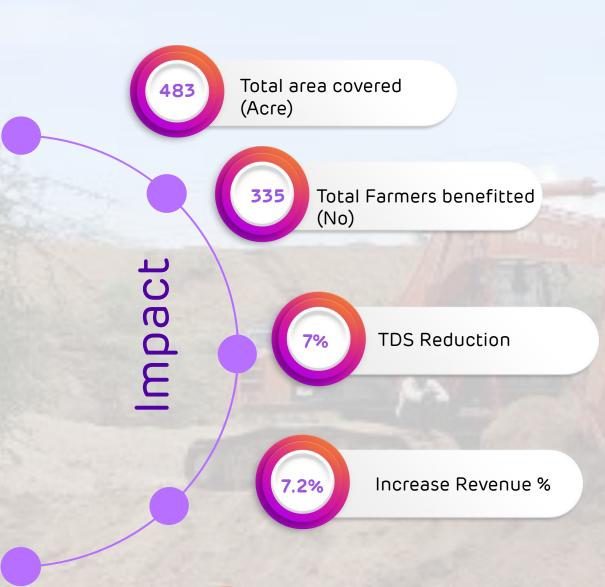
The water landscape of our Business periphery villages has undergone a significant transformation due to our proactive approach to groundwater and surface water conservation and management work. Our mission is clear to nurture and sustain water resources. We are primarily focusing on initiatives such as pond deepening, reinforcing check dams, implementing Rainwater Harvesting Systems (RRWHS), setting up borewells, and cleaning river inlets.

These efforts have led to enhanced water storage, ensured consistent water access for drinking and agricultural use.





Sr. NO	Project	Unit	Outcome	Impact
1	Check dam Restrengthen ing-Nana Kapaya	1	Water Storage Capacity increased by 48000 Cum	60 + farmer's 120+Acre Area of Agri land can be Irrigated
2	Recharge Borewell	21	Reduce Salinity ingress , and preventing water run	150+ farmer's 260+ Acre Area of Agri land for Irrigated
3	Pipe Culvert at Checkdam at Bhujpur	1	prevent water runoff into sea side.	35 farmer's 120+Acre Area of Agri land can be Irrigated







Vruksh Se Vikas - Massive Drive

Since 2014, we has embarked a transformative journey to execute a wide range of tree plantation drive in collaborating with local communities and forestry departments.

- **1.Miyawaki Forest Development**: Native species planation In the 2 acre area at Nana Kapaya village creating a flourishing mini-forest with 5,508 trees,...
- **2.Massive Public Plantation Drives**: Barren spaces were transformed into lush green havens through our massive public plantation drives. One notable example is the Bhupur Visri Mata Temple, where 25,000 trees were planted.







Vruksh Se Vikas - Massive Drive

Prakrurath: This initiative goes beyond just planting trees; it is about fostering of a sense responsibility towards our environment. Through sapling distribution to individuals, we have empowered communities to take ownership of their surroundings, leading heightened about the consciousness environment's significance.

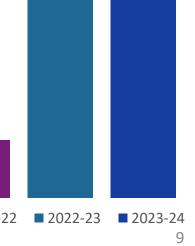
Till the date Total 1.27 Lac tree plantation have been done that has enriched the local ecosystem and also significantly contributed to carbon sequestration

1.27 Lac tree plantation

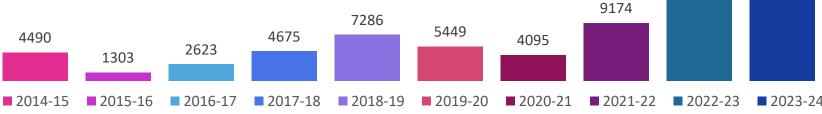








31429



Home Bio Gas

Home biogas systems, adept at converting organic waste into renewable energy, present a sustainable and ecofriendly solution for cooking. We have started this project in 2020, with farmers contributing 10% towards the cost, that persisted till 2022. Since then, we have scaled our initiative by aligning with government home biogas schemes to amplify the reach and adoption of this eco-friendly technology in wider rural regions.

The deployment of home biogas has been particularly transformative for women, offering a healthier, smoke-free cooking environment reducing greenhouse gas emissions.

Current year we process to facilitate 258 Gobardhan unit through Gov.





Phase	unit	Unit Cost In Rs.	AF Support in Lac	Beneficiaries Contribution in Lac	Gov. Convergence in Lac	Total in Lac
Phase -1	125	23200	29	3.75	0	32.75
Phase -2	100	42000	42.0	5.0	0	47
Phase -3	100	42000	0	5.0	37	42
Phase -4	258	42000	6.45	6.45	95.46	108.36
Total	583	149200	77.45	20.2	132.46	230.11

Mangrove Biodiversity





In 2010, we initiated a mangrove plantation project at Luni coastal belt, ultimately leading to 162 hectares of dense mangrove forests. Subsequently, we expanded our efforts by planning and implementing a multi-species mangrove plantation across an additional 20 hectares. These plantations are diligently maintained and continually monitored. Notably, these forests have evolved into a thriving habitat for various marine and migratory bird species, enriching the local ecosystem..

Since PhD scholars and students frequently visit this area for study. we plan to establish it as a Center of Excellence, serving as a hub to create awareness among students and facilitating research activities for scientist

- Spices of Mangroves
- Coastal Spices as habitat preservation
- 60+

- Hector
 Avicennia
 marine
 plantation
- 160+

 Hector Biodiversity park

20+

Mangrove Plantation Work Detail						
Sr. No	Year	Number	Men days	Remarks		
1	2011-12	50000	3000			
2	2012-13	125000	6943			
3	2013-14	60000	1480			
4	2014-15	125000	6501			
5	2015-16	65000	3533			
6	2016-17	20000	3125			
7	2017-18	100000	3666			
8	2018-19		7539	Algal Removal work		
9	2019-20		6261	Algal Removal work		
10	2020-21		4830	Algal Removal work		
11	2021-22	97000	5200			
12	2022-23	100000	4445			
	Total	742000	56523			
				11		

* Funded by -Mundra Petro chem Limited

Plastic free Drive

Objective: The central aim of the Plastic-Free Drive is to empower and enlighten students as key agents of change, enabling them to disseminate awareness and instill the practice of reducing single-use plastics within their community.

- **1.Educate:** Spread awareness about the harmful effects of plastic on the environment, marine life, soil health, and human well-being.
- **2.Engage:** Mobilize community members, especially the youth and family members to actively participate in plastic waste reduction activities.
- **3.Implement:** Introduce sustainable alternatives to ensure proper disposal and recycling. As of now we supply to APSEZ plastic waste management plant.

Outreach:-

10000 Students of Primary Schools. 990 Students of Secondary Schools of Mundra Block.





Natural Farming

Natural farming is an urgent need of the hour, We have initiated a comprehensive approach to promote natural farming practices through a variety of activities aiming to minimize pesticides and chemicals uses ,lead to produce , nutritious, chemical-free produce which is benefitting both farmers and consumers by providing healthier and more sustainable food options as well as plays significant role to flourishing environment and balanced ecosystem. Funded By GPVC- Mundra Petro chemical limited

250 Farmers

Awareness
 Sessions at
 Village Level:
 Spreading
 awareness on
 natural farming
 benefits and
 address their
 concerns.

05 exposure

 Hands-On Training & Exposures: Arranged Workshop and training to emphasizing on real-world techniques.

857 Farmers

• Link with
Government
Scheme:
facilitation of
govt. Cow
Nurturing
scheme to
promote ecofriendly farming
practices.

257 Gobardhan

• Bio-gas Support: Link with Gov Gobar Dhan Biogas Unit Nutrient-rich slurry serves as an essential organic fertilizer for natural farming

35 Farmers

• Natural Farming
Certification
Process to obtain
natural farming
certification
through the
Gujarat Organic
Product
Certification
Agency (GOPCA)
for the 35
Farmers who are
Members of Raj
shakti Sahakrai
Mandali.

Rs.7.47 Lacs RG

Marketing
 Assistance:
 Provide platforms
 and resources
 ensuring fair
 prices and
 broader
 consumer reach.

UTTHAN - FLAGSHIP EDUCATION PROGRAM OF ADANI FOUNDATION

Project Utthan, launched by the Adani Foundation in 2018–19, is an innovative intervention to enhance students' learning capabilities, provide facilities to schools, and achieve better learning outcomes at the grassroots level. The project adopts government primary schools to convert it as model schools, tutors' progressive learners, introduces English as a third language, and conducts various academic and co-curricular activities to enhance quality of education. It also works on staff capacity building and engages educators, SMC members and parents, especially mothers, to improve children's basic literacy and numeracy skills.













UTTHAN OBJECTIVES



Adopting government primary schools









Enabling Joyful Learning Spaces







facilitator

Government

primary

schools

Strengthening Appointing an Providing Utthan resources Sahayak and in each school facilities who acts as a catalyst and



Literacy, numeracy and skills for life



Governmen t school teachers' capacity building



Special Training focus on students 'Priya' for Vidyarthi's Competitiv (progressiv e exam e learners)

UTTHAN REACH



Primary School

High School

Adani Evening **Education Centre** Adani Competitive Coaching Centre

Adani English Coaching Centre IT On Wheels



PROGRESSIVE LEARNER

2541 Progressive Learner; Assessment of 6314 Students (3 to 7 Std.)



MOTHERS MEET

400+ Mothers Meet: 10000+ Mothers Joined.



COMPETITIVE EXAM

877 Students preparing Competitive Exam. 354 JNV, 273 PSE & 250 NMMS



ENGLISH: THIRD LANGUAGE

5000+ Facilitating English from Classes 1-4.



LIBRARY ACTIVITY

72000+ Book Issued: 924 Library Activities, OASIS 200+ Reading Workshop



IT ON WHEELS

4170 students
Empowered with digital skills & knowledge.



SUMMER CAMP

4300+ students of Primary & High Schools participated.

Our other various initiatives include:

- ✓ Kutch University has conducted an impact assessment of IT on Wheels, which has been evaluated and certified by the DEO Office.
- ✓ Exposure Visit of Project officers from three different locations to learn about the best practices.
- ✓ Computer Classes in High school : 200 Students took advantages of this computer classes.
- ✓ Career Counselling in 8 Utthan High Schools.
- ✓ Plastic Bag Free village workshop in all High schools.
- ✓ Remedial classes during summer break.
- ✓ Day Celebration : World Book Day, World Environment Day, National Reading Day, International Yoga Day, National Plastic, Bag Free Day, Raksha Bandhan, Independence Day & Celebration of Sports Day.
- ✓ Planned various Capacity Building Program (CBP) & Exposure visit for Utthan Sahayak & Students.
- ✓ Achievements: Utthan sahayak motivate mothers to open an account of Sukanya Samrudhi Yojana Utthan supported Taluka levels Kala Utsav in Primary & High Schools. •Utthan Sahayak supported Taluka level Science Fair. •06 students selected in District Level Sports School (DLSS).

16

Utthan in High Schools

Utthan Aligned With Gol & GoG



NEP 2020







Samagra Shiksha

Nipun Bharat

RTE

Utthan in High Schools

8 High school

2 teachers hired, (1 Math's & Science, and 1 English)
Goal is to improve the students' fundamental skills in these subjects.

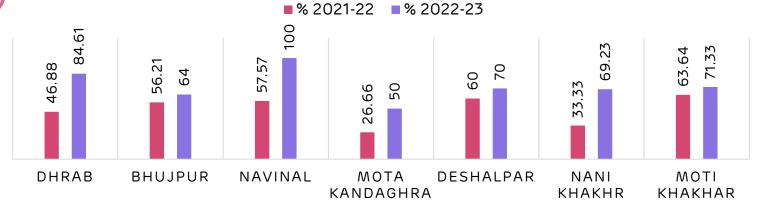
2 AEEC

help students improve their academic performance by revising the syllabus and clearing their doubts

Our trained teachers and volunteers provide personalized guidance and feedback to the students in a conducive learning environment these programs will boost the confidence and skills of the students and prepare them for a brighter future.

Good Board Result

UTTHAN HIGH SCHOOL RESULT COMPARISION



Adani Education
Evening Centre is
running in 2 centers,
where Utthan Sahayak
teaches Maths,
Science & English for
an additional 2 hours.
This has had an
impact on the board
results.



Adani Vidya Mandir, Bhadreshwar

Empowering Communities through Free and Compulsory Education

Adani Vidya Mandir, Bhadreshwar, was established in June 2012 with the goal to have access of quality and cost free Education with essential amenities like food, uniforms, and books, to Financial Weaker community children of the Mundra Block. The school boasts excellent infrastructure and resources necessary for the holistic development of each student. Children are admitted to the school form Senior Kg to 10th Standard.

Few notable points:

- We are empowering economically disadvantaged families through free and quality education
- We are fostering an environment of academic excellence.
- Pioneering Excellence: The First Gujarati Medium School in Gujarat Accredited by NABET
- Over 600 Students Learning Each Year in AVMB
- More than 35% of enrolled students in AVMB come from the Fisherfolk community.



- Work shop was conducted on Mental Health and behavioral change
- AVMB got 1st rank in Vaadan, Gayan and drawing in Kala Maha Kumbh competition and selected for Next block level competition
- AVMB selected for district level Kho-kho Match competition organized by SGFI-School Game Federation of India,
- 2 students selected for District Level Athletic
 Competition

AVMB STD 10 - SSC Board Result (2022-23)					
Sr. No.	Grade	Student			
1	Above 80%	8			
2	Above 70%	8			
3	Above 60%	6			
4	Above 50%	0			
5 Above 40%		1			
Total Students 23					

100% Success: Adani Vidya Mandir Bhadreshwar's Remarkable Achievement in Gujarat Board Standard 10th Examination.

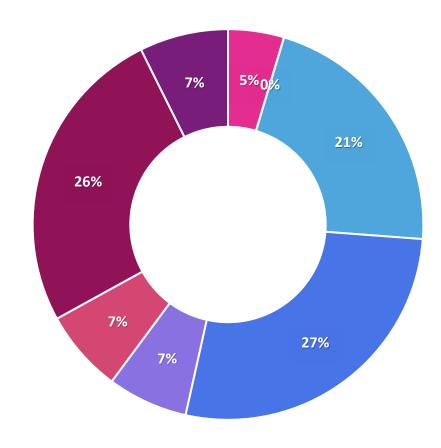


Community Health

Quality healthcare is not just about addressing illness; it's about providing everyone an equal opportunity to not just long life, but also rich in quality.

At the Adani Foundation, our steadfast commitment is to offer accessible and affordable healthcare. Through Our diverse healthcare initiatives which are dedicated to cultivating a healthier society to the develop strong and vibrant nation."

	CH MIS Data Month April to Sep - 2023				
Sr. No.	Projects	Total			
1	Medical Supports	1007			
2	Diaylsis	58			
3	Mobile Van	4690			
4	Rural Clinice	5939			
5	Health Camp	1448			
6	Speciality Health Camp	1489			
7	Ayushman Card	5584			
8	Blood Donation Camp	1598			
	Total 21757				





Our Mobile Health Care Units and Rural Clinic Services have made significant strides in delivering essential healthcare to remote rural areas and underserved populations Since the inception.

MHCU Outreach :- 29 Villages -31 Stoppage

Rural Clinic:- 7 Villages Of Mundra And Mandavi Block

SROI 1:541 (Ref.Soulace impact assessment report)

- 10629 individuals benefited from the services.
- 35 villages villages covered.
- 20 % average savings on healthcare-related costs.
- 25% People are aware and become health Conscious

29-Villages 31-MHCU Stoppage 7-Rural clinic

Medical Support Poor Patients.

Adani Foundation's Medical support program is a beacon of hope for the less fortunate, offering aid for a diverse range of ailments, from kidney problems to heart conditions and beyond at Our Adani Hospital Mundra.

In the critical cases, after stabilizing patients we refre them to GKGH, Bhuj, for advanced treatment with ened to end co-ordination

Live Impacted -1008 People



Community Health



Dialysis Support:

In Mundra, where water quality challenges contribute to a higher prevalence of urinary infection lead to kidney failure cases. Our Dialysis Support Program is designed to assist those in extreme need and Financial weaker.

The program is not only alleviating their financial burden but also enabling them to lead healthier lives.

Live Impacted:- Two Patients 58
Times

Our health camp initiatives are designed to bridge healthcare gaps in underserved regions, offering a holistic approach for community well-being with combining Preventive and Precautionary measure through Awareness session, Health check Camp, screening and treatment.

The "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.

Outreach: 9 Villages Lives Impacted: 473

- Comprehensive Eye Screenings at Village level
- Cataract Surgeries to GKGH ,Bhuj
- Post-Operative Care and Follow-up.

As well as we arranged gynecological and ophthalmic and general health camp at Village level in collaboration with KCL limited, GKGH Bhuj, and THO *Mundedaby - Kutchh Copper Limited

CH MIS Data Month April to Sep - 2023

Projects

•	110,000	10001
1	Health Camp	1448
2	Speciality Health Camp	1489

Blood Donation Camp

Total **4535**

Total

1598



Community Health

Ayushman card facilitation

Ayushman Bharat PM-JAY is a global healthcare milestone. offering an unprecedented health cover of Rs. 5 lakhs per family annually for secondary tertiary care. Adani Foundation has started 100% Ayushman Card coverage in all Mundra villages of coordination with the District Health Department.

Impacted:-5.584 Ayushman cards have been

25 Village 5,584 Ayushman cards Issue

Villages -25 Villages Live Issue.

Women Health & Well Being

Outreach-18 Village Lives Impacted:-2230+ women.

Gynec Health Check-ups: Conducted thorough check-ups, with GKGK referrals when necessary.





Sustainable Livelihood Development

"Raj Shakti Prakrutik Kheti Sahkari Mandali



The Adani Foundation has taken a proactive step by organizing awakening and awareness sessions to promote natural farming practices in Mundra block Villages. These efforts led to the formation of the "Raj Shakti Prakrutik Kheti Sahkari Mandali," comprised of 35 dedicated farmers who are deeply committed to natural farming.

We have started green Carnival to provided a platform for these farmers to sell their agricultural produce in our two colonies in Mundra. Encouraged by positive feedback, the farmers have setup a organic Agri produce shop in Mundra, It serves as an inspiration for others to embrace eco-friendly agricultural practices. Now 302+ farmers are collaborated with Mandli.

Previously, these farmers used to sell their produce in bulk to vendors. Now, they are able to sell directly to consumers, leading to a 35% increase in their income. Furthermore, they have applied for the "GOPCA" certificate from the Gujarat Organic Product Certification Agency, highlighting their commitment to organic farming practices.

They have started Collective organic farming in the 200 acre of agri land with proper fencing and technique.

Rajshakti Prakrut sahakari Mandali had Opportunity to meeting with honorable Governor of Gujarat Achrya devvrat at Gandhinagar on 30 August. As well as had exposure to Gautirth vidhyapith Bansi ghar Gaushala, Ahmedabad.



Sustainable Livelihood Development

Dates Restoration

In the aftermath of the devastating Bipor Joy cyclone, our farming community faced a severe setback as numerous Date, Mango, and other fruit plants were damaged and uprooted. These plants, which served as a vital source of income for farmers, were left in shambles.

To address this crisis and provide a ray of hope, we embarked on the Dates Restoration Project in collaboration with Krishi Vigyan Kendra (KVK) and other agricultural experts. This project aimed to rejuvenate and revive the fallen Date plants.

As of the current date, 615 Date plants have been successfully restored. These plants are now on the path to recovery and are expected to bear fruit in the upcoming season this will providing significant financial relief to farmers.

Kitchen Garden Kit

We have ve supported vegetable kitchen garden kits to 500 farmers with the aim to enable them to grow fresh and nutritious, chemical-free vegetables. This will enhance their food security and promote self-reliance.

Tree Restored : 500 Unit

Each Date trees is

projected to yield
approximately Rs. 25,000,

Total Yield in Next

Season:-Rs.1.53 Cr.





Sustainable Livelihood Development

Fodder Support

Our Fodder Support Program is dedicated to assisting our neighboring villages during the challenging seasons of summer, drought, and crop failures. Through this program, we have provided a significant amount of Green and dry Fodder to ensure the well-being of both the communities

Grassland Development Program

We have started Grass land development with a primary objective to create a self-sustaining village by converting common pastureland (Gauchar) into fertile and productive grasslands to ensure a reliable source of fodder for the community, especially during challenging times.

Total area :- 213 acres of gauchar land has been cleaned and allocated for Grass land development with strong Community Contribution and Mobilization.

Villages : Zarpara ,Siracha, Gundal , Kukadsar

Out put:- Cattle relayed for one Month due to fodder Production

Cattle Health camp

we had arranged Cattle Health Camps, in close coordination with Government Veterinary doctors and the Animal Husbandry Department, dedicated to ensuring the crucial veterinary care to a significant number of cattle, effectively addressing their immediate health needs. To date, we have successfully treated more than 500 cattle, ensuring their health and vitality.

799413 Kg Dry Fodder
Support
2353303 Lac Kg Green
Fodder Support
24 Beneficiary Villages
16000 Cattle benefitted:-





Sustainable Livelihood -Fisherfolk Community

Education



Vehicle Transportation Facilities

We extend vehicle transportation services to school-going children from Luni and Randh Fishermen Settlements to the AVMB School, Bhadreshwar Similarly, we ensure for Juna Bandar Fisherfolk Students to the nearest Government School and enable them to school for regularity and easy to reach school.

Funded By AF - 165 Students Funded By - 53 Students

Education Kits Support

Education Kits including notebooks, guides, and bags, to fisherfolk students studying in 9th to 12th standard to enhance their learning experience

Funded By AF - 15 Students Funded By GPVC - 42 Students

Outcome

- Increased Attendance- 75%
- Enhanced Learning: 20%
- Parental Engagement: 25%
- Cultural Shift:-10%

Educational awareness sessions were conducted in four Fisherfolk Vasahat of GPVC Villages to highlight the importance of education, with a particular focus on promoting girl-child education.

Primary Schools - 445 Students Secondary Students - 42 Students

Youth employment

Our main objective is to offer sustainable employment opportunities to the local fishing community in APSEZ Mundra. We bridge the gap between industries and Fisherfolk youth by facilitating job placements.

Currently, we have successfully engaged a total of 12 Fisherfolk youth in this endeavor.

Scholarship Support

We are deeply committed to empowering the future of fisherfolk communities through education. To this end, we provide scholarship support to 30 deserving students, covering their actual school fees. In our unwavering commitment to promoting gender equality and advancing girl child education, we extend 100% fee support to female candidates and 80% to male candidates."

^{*} Funded by - Mundra Petrochemicals Limited

Sustainable Livelihood -Fisherfolk Community



Cement Roof Sheet Support

fisherfolk Home were significantly damaged by the Bipor Cyclone. In response to that we provided 2696 cement sheets to 336 fisherfolk households of Juna Bandar, Luni, and Randh Bandar to support their recovery."

Potable water Distribution

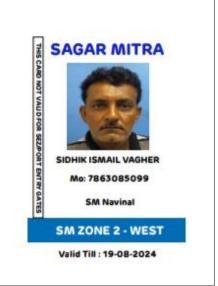
Providing access of potable Drinking water Facilities to Nine sherfolk vasahat on Daily bases, either By Water tanker or Linkage with Nearest Gram panchayat.

More than 5000 Fisherfolk Population are getting benefit which impact on their health and efficiency.

Sagar Mitra

We have introduced the 'Sagar Mitra Card' to simplify access for Fisherfolk to specific fishing routes within APSEZ. This digital card is connected to a digital punching machine located at designated entry points. Initially, we have implemented this system for Navinal Fisherfolk, and so far, we have issued a total of 57 Sagar Mitra Cards."

Sr. no	Vashat Name	Population	Water Quantity in KL
1	Luni Bandar	401	15000
2	Bavdi Bandar	535	20000





Women Empowerment

Project Saheli

 Kutch Copper Limited is dedicated to empowering women both financially and socially. To that end, a comprehensive training program that has reached 850 women across 82+ Self Help Groups with 30+ Lacks saving Corpus, out of which 5 groups have outstanding revenue generation.

Self Help Groups

- 82 Self Help Groups in coordination with National Rural Livlihood Mission.
- 850+ Members
- 31 Lacs Saving Amount Corpus

Making SHG Self Reliant

- 16 SHG are on path ways of self reliance.
- Various handicraft, dry and fresh food making, stitching, tie and die etc.
- 160+ women Monthly average income
 @ 7000 of each member oer Month



Job Sourcing - Govt

- 11 Women supported for application and process of Gram Rakshak Dal, Bank Sakhi, Bima Sakhi and Professional Resouce Person.
- Average income 4200 Per Month

Job Sourcing - Private

- Coordination for Job by Unnati Portal with Adani Group company companies, Britania, B Medical and Emphazer company
- 387 Women supported till date for job sourcing of 18 villages
- Average income 10200 Per Month

Social Empowerment

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

* Funded by - Kutchh Copper Limited

29

Women Empowerment

Menstrual Hygiene Awareness

Objective :-

To educate and empower rural girls and women about menstrual health, break down negative social views on menstruation, supply to enhance their overall health, education, and empowerment."

18 Villages

1587 Women participated

494 School girls

Till date 36% women had never used sanitary Napking single time now they started using due to our intervention. This will reduce UTI @ 22%. As our sample survey



Conducted Awareness Session at Village level



Awareness Session at Schools

Process



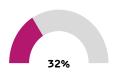
Provide Sanitary pad



Feed back and Evolution



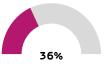
Women Never heard about Menstrual hygiene



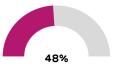
Women faced mild infection in life-time



were using cloths on regular basis



Women had never Used sanitary pads



Women had no information about UTI

Women Empowerment

Millet Program

Village Name	Women Participated	Millet dish prepared
Bidada	67	22
Moti Bhujpur	61	12
Mundra	50	20
Mota Bhadiya	50	22
Mandvi	50	24
Siracha	40	14
Tragdi	24	13
Nani Bhujpur	37	23
Kandagra	36	15
Navinal	36	24
Nani-Khakhar	36	18
Nana Bhadiya	25	12
Deshalpar	33	17
Total	545	236

International year of Millets-2023

With the vision of promoting the culture touch, awareness, benefits and consumption of millets in Mundra, we conducted Millet competition in Nine villages.

& Feedback

Evolution

Prize Distribution

Arranged Millet Foo Competition

Conducted Awareness Session at Village level

Collaboration With ICDS

Never heard about millets or it's befits 60%

Never used millets in diet 30%

Unhealthy lifestyle 75% Learned new and healthy dishes 80%

Weight Management 55%

Other disease 35%

^{*} Funded by - Kutchh Copper Limited

Community Infrastructure Development

Adani Foundation is dedicated to enhancing the quality of life of communities under the Community Infrastructure Development Initiative. It acknowledges the government's role in providing fundamental infrastructure facilities and strives to bridge gaps, ensuring its activities are tailored to meet specific needs and responsive to grassroots requirements. Some of the initiatives include constructing check dams, deepening ponds to augment water storage capacity, infrastructure support to fisherfolk communities, and facilitating access to clean drinking water for villagers.



GPVC



Restrengthening & Desilting of Check dam – 720+ Benefited



Road Renovation and Civil Maintenance Work at Fisherman Vasahat – 600+ Benefited



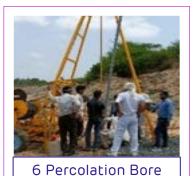
Construction of Pipe Culvert – 400+ Benefited



River Cleaning and JCB Support - 2250+ Benefited



10 JCB Support for 45 days to Farmers for Cleaning Vadi vistar after cyclone – 1650+ Benefited



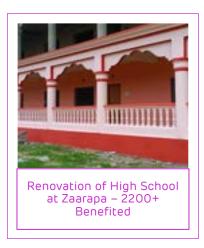
well Recharge -

4000+ Benefited













Community Infrastructure Development



377 - AC Roof sheet support to Fisherfolk Vasahat – 1700+ Benefited



2 Development of Common Gathering flooring work – 4000+ Benefited



195 Stall – Vegetable market– 900+ Benefited







Maintenance, Fencing & Material Support - 30+ Benefited



Renovation of Shed at Shekranpir Bhopavandh -2000+ Benefited



Work done during Biparjoy Cyclone

Cyclone Biparjoy caused huge losses in Mundra and nearby villages. Adani Foundation's worked for relief and recovery with Panchayat & Government body. More than 17,000 people benefited from various efforts. Adani foundation consider this as ethical responsibility and a source of satisfaction. Stakeholders and government bodies also appreciated the efforts.

Meetings with Taluka & District government officials to facilitate assistance and coordination with local authorities.



Connect With Government & community

Health teams and ambulances on standby in case of emergency.



Health Team

Reached to more than 10000 people by Awaz de to aware all, specially for fisherfolk settlement.



AWAZ DE

4500+ Workforce migration with basic amenities.



Relocate to a secure location

100+ Team member distributed for each taluka/Villages as per requirement

Duty delegation





Connect









Monitoring

Tracking the cyclone's progress by AF team member.

Team members in directly touch with 10 Temporary housing & 60 Villages.

Government

Co- ordinating with Government organizations from Talati to Collector.

Panchayat

Co-oridnate
with Gram
pancahayat in
case they need
any emergency
support.

Precyclone preparatio n



- Team distribution
- Workforce migration
- Basic amenities
- Awareness efforts.
- Meetings with government.

During cyclone



- Food and shelter provision
- Fodder support
- Awareness messages
- Vehicle support.
- Coordination with Panchayat

Postcyclone relief



- Temporary housing
- Food packets
- Excavator support
- Transfer of affected individuals.
- Provision of fodder





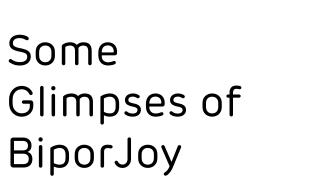












Relief Work





PROJECT UDAAN



202 institutes visit

5 Corporate visit

13226 Participants

The Project Uddan is an educational initiative led by the Adani Foundation, with the overarching goal of inspiring students to think big through a comprehensive educational mission. As part of this initiative, educational tours are organized, allowing school and college to visit various Adani Group facilities, including Adani Port, Adani Power, and Adani Wilmar refineries at different locations. These tours provide valuable insights for students to aspire for great achievements in their own lives. Moreover, the project enhances students' learning experiences and encourages them to envision themselves as future entrepreneurs, innovators, and leaders.

During six month Udaan project had conducted 202 institutes visit and 5 corporate visit. Total 13226 participants (7688 Male Students, 4861 Female Students and 677 Faculties).





Total Admission in Both centre 2023-24

Adani Skill Development Centre

Mundra

Courses	Female	Male	Total	Revenue Generated
Digital literacy	4	3	7	4130
Hydrography	-	3	3	15,000
Advance Excel training	-	18	18	18,850
RTG Crane Operator	-	15	15	1,50,000
Mud work	30	-	30	Fees Received on F.Y. 2022- 23
Solar Technician	-	-	Training Completed on F.Y. 2022-23	42260
Total	34	39	73	2,30,240

Bhuj

Courses	Female	Male	Total	Revenue Generated
Digital literacy	34	10	44	25960
Hydrography	-	9	9	45,000
EDP – Tie up with CED	09	21	30	14500
GDA	14	09	23	1,35,280
5 S	-	01	01	590
Interview Skills	-	01	01	00
Industrial Safety	-	01	01	3540
Total	57	52	109	2,24,870

Adani Skill Development Centre, Mundra

Digital Literacy

Digital literacy training was provided to seven students at Bhujpur Government High School, and as a part of the DEO project, certificates were distributed.

RTG Crane operator

RTG crane operator training is successfully given to 15 candidates.

Beauty therapist

The distribution of certificates for beauty therapist training celebrated the successful culmination of the program

Mud work

After the mud work training in Dhrab Village, a certificate distribution ceremony was held, benefiting a total of 30 female participants.

Advance Excel training

Eighteen employees from Sumitomo India Ltd. Co. underwent advanced Excel training, significantly boosting their skills.





Adani Skill Development Centre, Bhuj

Digital Literacy

ASDC has partnered with Tally as the Knowledge Partner for its Tally - GST course. The first batch, consisting of 16 students from Bhuj location, achieved a remarkable 100% pass rate.

Real-time exposure

Twenty-five Nursing Assistant trainees gained valuable real-time experience in Emergency services through interactions with 108 Ambulance services and an industry visit.

We offer on-the-job training to nursing students to build their confidence and prepare them for delivering high-quality patient care.

Hydrography training

Provided practical Hydrography training to nine participants.

Entrepreneurship Development Programme (EDP)

Conducted EDP training in collaboration with CED, Gandhinagar, for a total of 30 trainees.

<u>Placement</u>

We successfully hosted a placement drive at our center on April 23rd, where 11 out of 15 candidates secured positions at KK Patel Hospital with an impressive average monthly salary of Rs. 17,000.













AKBPTL - TUNA

ADANI KANDLA BULK TERMINAL PVT LTD -TUNA

Potable Water Distribution

Potable water (17.5 KL per Day)
Distribution to Vira and
Dhavlvaro Bandar on regular
base through Water tanker
Regularly through **AKBTPL and GWIL**



Support of Dry & Green Fodder to Tuna and Rampar Village and Gaushala during Scarcity. That impacted on Cattle health and Milk Productivity.

Total 7410 Kg Dry and 447473 Green Fodder Distribution 1228 3 Villages1228.

Prakrut Rath -Tree Plantation

Total 3000 Tree sapling were distributed to individual And 500 tree have planted at Common place and school with ensure their responsibility for watering and caring.





The paver block work at Vandi and Tuna Common Gathering which enhances their usability and convenience for the community. During the monsoon season, certain areas of Wandi village get waterlogged, .we took measures to clean and address the issue Immediately.







AGEL-Dayapar

Dayapar Adani Wind Energy project is a large-scale wind power project located in the Kutch district of Gujarat, India. It is one of the biggest wind farms in the country, with a total capacity of 575 MW. The project was developed by Adani Group and Inox Wind, it project was commissioned in April 2019 and supplies clean energy to various states in India through power purchase agreements with Maharashtra State Electricity Distribution, NTPC, PTC India





Sr. No.	CSR Activities	Beneficiaries	
1	Ayushman Health card Camp	86	Nana Valaka & Mota Valka
2	General health camp	267	Nana Valaka & Mota Valka Ghadani, Paneli
3	Animal Health camp	1,500+	Gahadani
4	Tree Plantation	5,435	AGEL Surrounding Villages



				Village Name					
Village Detail	Mota Valka	Paneli	Ghadani	Ludbay	Amara	Muru	Deshalpar	Haroda	Total
Total Household	224	87	357	278	700	218	351	120	2335
Population	926	520	2224	1509	1913	1329	2025	718	11164
Male	473	261	1110	807	943	696	1026	379	5695
Female	453	259	1114	702	970	633	999	339	5469
BPL	79	34	155	83	180	123	138	24	816
ICDS-Anganwadi	2	1	2	1	2	1	1	1	11
Children Number	180	18	112	35	65	35	32	15	492
Primary School	2	1	2	1	2	1	1	1	11
Students	298	61	242	145	325	143	237	40	1491
Higher secondary School	No	No	No	No	1	No	1	1	3
Students					35		63	20	118
Disable Person	3	3	11	7	5	2	6	5	42
Pond/Chackdams	9	12	8	8	8	6	4	7	62
Two Wheeler	125	40	100	37	80	47	117	40	586
Four Wheeler	25	10	30	15	30	21	38	3	172
Loading Vehicle	1	2	1	6	3	7	9	4	33
Cattle Poppulation	3905	672	1937	3911	1375	1250	1375	1250	15675
Cow	100	166	180	100	175	230	80	100	1131
Buffalo	3750	162	367	3756	350	220	325	250	9180
Sheep/Goat	55	344	1390	55	850	800	970	900	5364
Total Milk Production-(Ltr)	1520	1000	1100	1400	514	700	550	600	7384
Dairy	2	1	2	1	2	1	1	1	11
Land Details (Accor)	2112	3009	2914	268	3154	5678	2015	2043	21193
Farming Land (irrigated)	452	447	805	10	914	317	715	450	4110
Non Irrigated	345	300	510	94	720	335	93	110	2507
Gauchar & Other Land	1315	2262	1599	164	1520	5026	1207	1483	14576
Health Facilities									0
PHC	1	1	1	1	1	1	1	No	7
CHC	No	No	No	No	1	No	1	No	2
Drinking Water									
Home connection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Sanitation									
Toilet facilities	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Electric Facilities									
Individual home connection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Women SHG	7	3	8	2	1	5	11	No	37 ₄₄

AGL Khavda

Adani Khavda renewable solar plant is a hybrid power project that will use both solar and wind energy to generate electricity. It will be built in the Khavda desert along the Indo-Pak border in Kutch district of Gujarat, having Total capacity of 20,000 megawatts (MW), making it the world's largest hybrid renewable energy park and will be cover an area of 72,600 hectares of waste land¹.

It is expected to play a major role in fulfilling India's vision of generating 450 gigawatts (GW) of renewable power by 2030

Tree plantation:- We distributed 650 tree saplings to primary schools along with an awareness session highlighting the importance of trees.

Ayushman Card Facilitation to Dinara, Khavda, Birndiyari, Gorivalli Villages. Total 311 Card Issued.

We have conducted Primary baseline assessments and created Village profile of O7 villages and identify their specific needs, aspirations, and developmental potential. Though we have started some entry point activities and Based on Village profile data Initially we will start Project Utthan and Some Health and Livelihood projects.





Village Name										
Village Detail	Mota & Kotada	Kuran	Mota Dinara	Nana Dinara	Khavda	Tuga & Jam Kunariya	Khari	Total		
Total Poppulation	5500	1800	7500	4000	11000	3300	3600	36700		
Total Family	700	300	3000	2500	800	673	470	8443		
SC	NO	YES	NO	NO	YES	NO NO	YES	0445		
ST	NO	NO	NO	NO	YES	NO	NO			
OBC	YES	YES	YES	YES	YES	YES	YES			
General	NO	YES	NO	NO	YES	NO	YES	0		
BPL	35	60	500	300	37	500	100	1532		
ICDS-Anganwadi	YES	YES	YES	YES	YES	YES	YES	1332		
Children Number	250	45	350	200	300	300	150	1595		
Primay School	YES	YES	YES	YES	YES	YES	YES	1555		
Secondary School	NO	YES	NO	YES	YES	YES	NO			
Higher secondary School	NO	YES	NO	NO	YES	NO	NO			
Above 18 to 30 Yrs: 10th pass	15	200	60	12	40	50	40	417		
Disable Person	40	12	100	17	10	15	25	219		
Senior cityzone	100	100	100	500	500	80	300	1680		
Widow	50	60	60	50	20	30	60	330		
Unemployed Youth	200	45	40	20	50	120	100	575		
Two Wheeler	150	150	250	50	300	70	200	1170		
Four Wheeler	15	50	50	25	80	15	200	255		
Loading Vehicle	10	43	50	90	100	57	30	380		
Cattle Poppulation	10	73	30	30	100	31		300		
Cow	3400	400	4000	6000	250	8000	3000	25050		
Buffalo	3000	350	3000	300	1500	600	10000	18750		
Sheep	200	100	1000	1500	50	360	150	3360		
Goat	600	2000	2500	200	800	3300	2500	11900		
Total Milk Production-(Ltr)	1500	600	2000	6000	3000	3200	4000	20300		
Dairy	2	2	3	4	2	2	2	17		
Land Details (Accor)				'		_		1,		
Farming Land	1000	2500	12500	3200	741	2000	600	22541		
Gauchar	200	4500	2000	1800	100	412	480	9492		
Health Facilities	200	1500	2000	1000	100	112	100	3 132		
Sub-PHC	NO	YES	YES	NO	NO	NO	YES			
PHC	NO	NO	NO	YES	NO	NO	NO			
CHC	NO	NO	NO	NO	YES	NO	NO			
Drinking Water	110	110	110	110	1.20	1,10	1,10			
Home connection	YES	YES	YES	YES	YES	YES	YES			
Sanitation				1	1	1	1 5			
Toilet facilities	NO	YES	YES	YES	YES	YES	YES			
Electric Facilities	YES	YES	YES	YES	YES	YES	YES			
Individual home connection	YES	YES	YES	YES	YES	YES	YES			
Women SHG	NO	NO	NO	NO	NO	NO	NO	46		
Sakhi mandal	NO	NO	NO	NO	NO	NO	NO			
CC 11 111011001	1.0		.,,	.,,	1,10	110				

Sanghi Cement

Sanghi Cement, located near Moti ber village of Abdasa block, in Kutch, Gujarat. stands as a notable player in the cement industry. The company's presence in the region has a significant impact on the local economy and community.

We have conducted Primary baseline assessments of sanghi Cement Periphery 10 villages. The primary objective of this initiative is to gain a deep understanding of the socio-economic and environmental conditions of these villages, to identify their specific needs, aspirations, Based on that We will design Comprehensive CSR Projects in the core of education, healthcare, livelihood enhancement, women's empowerment,.

6.6 MMTPA capacity
Clinker Plant
6.1 MMTPA capacity
Cement Plant
143 MW capacity power
plants







				Vill	age Name						
Village Detail	Nani Ber	Moti ber	Vayor	Hothaiy	Aakri Moti	Nava Vas	Golay	Pakho	Jadva	Pipar	Total
Total House Hold	137	606	1129	116	227	79	288	39	732	192	3545
Poppulation	478	2205	4027	534	426	215	642	130	254	881	9792
Male	248	1272	2715	266	224	111	316	72	373	429	6026
women	230	933	1312	268	202	104	326	58	359	452	4244
BPL											
0-16 Roster	17	24	39	7	51	13	8	9	12	41	221
0-20 Roster	53	56	76	18	70	20	44	11	25	76	449
others	36	21									57
ICDS-Anganwadi	1	3	4	1	2	1	2	0	11	1	16
Children Number	32	122	284	66	34	27	87	0	31	26	709
Воу	20	80	169	35	22	15	45	0	20	15	421
Girl	12	42	115	22	13	12	32	0	11	11	270
Primay School	1	3	2	1	2	1	1	1	1	4	17
Studnets Number	114	401	407	93	59	21	136	19	141	203	1594
Boy	64	213	219	35	33	11	74	8	72	100	829
Girl	50	188	188	22	26	10	62	11	69	103	729
Secondary School	NO	NO	1	NO	No	No	No	NO	No	No	1
Studnets Number	4	4	55	0	5	0	3	0	8	6	85
Boy	0	0	37	0		0		0			37
Girl	0	0	18	0		0					18
Higher secondary School	NO	NO	YES	NO	NO	No	No	0			0
Arts stream-Students	8	5	18	0	0	0		0	10	0	41
Science Stream	No	0	4	0	0	0		0			4
Agriculture											0
Farmers	55	85	151	35	84	15	63	0	53	43	584
Gruh Udhuog	1	0	0	0	0		0	0			1
Cattle Poppulation											0
cow	137	430	366	61	212	350	276	180	1228	581	3821
Buffalo	429	537	426	310	224	43	551	227	1127	841	4715

				Vill	age Name						
Village Detail	Nani Ber	Moti ber	Vayor	Hothaiy	Aakri Moti	Nava Vas	Golay	Pakho	Jadva	Pipar	Total
Land Details (Hector)											
Forest	195	191	0	0	0	432	1098	513	0	0	2429
not usable	128	35	406	0	705	116	23	399	1020	4236	7068
Non agri	386	323	35	466	35	0	16	478	1543	9	3291
barred	444	760	209	154	893	24	0	60	96	634	3274
Farming Land	710	281	1083	134	710	66	1167	0	338	400	4889
Gauchar	0	83	113	48	1142	0	32	128	398	98	2042
others					118						118
Irrigation Land-(Hector)		0									0
Canal	102	0	0	0		0	0	0	0		102
well	35	80	50	44	3	0	0	0	0	200	412
lift irrgation	15	44	0	0		0	16	0	56		131
Health Facilities											0
Sub-PHC	No	1	2	No	No	No	No	No	No	1	4
PHC	No	No	1	No	No	No	No	No	No	No	1
CHC	No	No	No	No	No	No	No	No	No	No	0
District Hospital	No	No	No	No	No	No	No	No	No	No	0
Drinking Water											0
Home connection	85	227	990	116	172	79	288	39	254	102	2352
without connection	52		139	0	25	0					216
Sanitation		227									227
Toilet facilities	137	227	990	116	167	60	288	39	200	100	2324
without drainage connection	50		840	0	30	19			54		993
Electric Facilities											0
individual home connection	137	227	990	116	113	60	91	37	240	100	2111
Agri connection	35		10	7	7	0		10	30	2	101
Women SHG	2	2	3	0	1	0		0	3	2	13
Sakhi mandal	11	12	23	4	1	0	5	0	4	15	75
Others											0
Senior Citizen card	5	3		2	21	2	2	0	2	10	47
Widow Penson	1	1		4	3		1	1	26	8	45
Ayushman Card	20	35		32	24		0	0	0	0	111
Disable Pension			3		0		1	0	2	0	6
LPG Gas	58	1	780	10	19	10	60		100	15	1053

ATL-Mandvi & Rapar Block Villages

Adani Transmission is a company active in the power transmission and distribution sector in India and internationally. It holds a significant position as one of India's largest private sector power transmission companies, with a combined network spanning over 12,000 circuit kilometers. We wil start CSR initiatives in 12 villages located within the Mandavi and Rapar Block areas, intersected by the Adani Transmission Line."

We have conducted Primary baseline assessments and created Village profile of 12 villages and identify their specific needs, aspirations, and developmental potential. Based on that We have started CSR Activities in the core of education, healthcare, livelihood enhancement, women's empowerment,.





			Village Name				
Village Detail	Kidiyanagar	Bhimasar	Moti khakhar	Gangapar	Moti Bhadai	Nani Bhadai	Total
Total House Hold	1300	1765	436	80	250	116	3947
Poppulation	9000	15000	2139	272	1171	498	28080
BPL	250	290	50	1	31	10	
ICDS-Anganwadi	10	10	1	0	1	1	23
Children Number	30	600	34	0	38	20	722
Primay School	10	13	2	1	1	1	28
Studnets Number	1083	1547	246	6	160	160	3202
Secondary and high secondry School	125	245	144	0	120	NA	634
Agriculture							0
Farmers	650	750	150	80	200	105	1935
Gruh Udhuog	1	0	1	NA	NA	NA	2
Cattle Poppulation							
Cow	400	750	700	100	686	600	3236
Buffalo	2600	1000	500	NA	768	188	5056
Sheep	1500	2500	1000	NA	100	NA	5100
Goat	1500	2500	1000	NA	200	NA	5200
Land Details (acers)	16702	4777	1000	3000	10460.00	4637	40576
Forest	0	100	NA	50	0	NA	150
not usable	1500	100	NA	200	1000	NA	2800
Non agri	NA	386	NA	300	1000	2537	4223
barred	NA	444	NA	450	NA	NA	894
Farming Land	11500	3500	600	1800	7800	2000	27200
Gauchar	3000	237	400	200	600	100	4537
Irrigation Land-(Hector)		0					
well	550	650	150	80	200	105	1735
lift irrgation	100	100	100	60	150	80	590
Health Facilities							0
Sub-PHC	1	1	1	NA	NA	NA	3
PHC	1	1		NA	NA	NA	2
CHC	No	No		NA	NA	NA	0
District Hospital	No	No		NA	NA	NA	0
Drinking Water	1300	1765	436	80	250	116	3947
Home connection	1300	1765	436	NA	250	116	3867
without connection	0	0	0			NA	0
Sanitation							0
Toilet facilities	1200	1650	400	80	200	100	3630
without drainage connection	100	115	36	NA	50	16	317
Electric Facilities							0
individual home connection	1300	1765	436	80	250	116	3947
Agri connection	600		1	80	NA	105	786
Women SHG	2	2	1	NA	200	0	205
Sakhi mandal	10	12	3	NA	1	1	27
Others						0	0
Widow Penson	400	400	40	5	50	25	920
Disable Pension	60	55	13	2	11	10	157

Mother's Day Celebration



On May 14th, we celebrated Mother's Day in Mundra. Mrs. Chhaya ben Gadhvi, former District Education Chairperson of Kutch, delivered an inspiring speech about the importance of mothers in shaping families and our nation's future. More than 200 Mother had participated.

Inauguration of Ground water Recharging projects



On May 17th, Inaugurated a groundwater recharging project involving 21 percolation wells. We were honored to have notable attendees, including Mr. S.K. Prajapati (DDO Kutch), Mr. Rakshit Shah (EDM, APSEZ, Mundra), Mr. Mahendra Gadhvi (Chairman, Kutch Jilla Panchayat), and local Taluka Panchayat Presidents at the event.

Employee Volunteer Program



On May 14th and 15th, 2023, in Samudra Township, Mundra, the Adani Foundation organized a "Joy of giving" in partnership with the Indian Coast Guard Station, Mundra, with the noble aim to assisting those in need with essential items. We gathered old but usable clothes, utensils, and books to provide support to those less fortunate.

Organic Vegetable Shop Inauguration



Adani Foundation is promoting natural farming in Mundra through the "Rajshakti Prakrutik Kheti Sahkari Mandali," a group of 32 farmers. They opened a shop on May 24th to sale their produce open market

Launching Of "Prakruti Rath"



On June 2nd, 2023, Adani Foundation Mundra and Kutch Copper Limited, along with the Government of Gujarat's Social Forestry Department, launched "Prakruti Rath," a 30-day environmental initiative aimed to distribute 50,000 tree saplings to 61 villages via an innovative vehicle that educates about environmental awareness.

Vegetables Kitchne Garden Kits Distribution



On June 3rd, Mundra
Petrochemical and Adani
Foundation celebrated World
Environment Day in
collaboration with the
District Horticulture
Department and distributed
kitchen garden kits to over
500 farmers. In the
Esteemed presenece of
Mr.Amit Arora Collector
Kutch.

State-level Kabaddi Tournament



State-level Kabaddi tournament was scheduled through The Maharana Pratap Group of Bhujpur, more than 21 teams had participated from across Gujarat. We sponsored Rs. 25,000 to The winning team Rs. 15,000 to runner sup Team. We continue to support and encourage young talents for their growth and achievements..

Inauguration of Dates Restoration



Adani Foundation surveyed cyclone-caused agricultural crop damage, particularly date trees. They initiated a comprehensive project in partnership with KVS to restore the trees, commencing on June 24th in the presence of Mr. Anirudh Dave, MLA of Mundra-Mandvi, and Mr. Rakshit Shah, Executive Director of APSEZ, Mundra.

Education Kits Distribution



On June 23rd, Mundra
Petrochemicals organized a
special program to distribute
education kits to students in
grades 9 to 12 from the
Fisherfolk community. Mr.
Omprakash Sir, representing
Mundra Petrochemicals,
shared an inspiring message
about the Important of
education. 40 students had
benefited.

Inauguration Of Vegetable Market



Adani Foundation developed the Vegetable Market in Mundra, offering 195 stalls for convenient vegetable trading. It was handed over to Mundra Nagarpalika on June 24th, with Mr. Anirudh Dave (MLA Mundra-Mandavi) and Mr. Rakshit Shah (Executive Director of APSEZ, Mundra) present.

Guru Purnima Day Celebration



On July 3rd, Project Uthhan Mundra celebrated Guru Purnima Day across 69 primary schools and 8 high schools. The day commenced with a special prayer dedicated to the teachers (Gurus), followed by engaging activities such as drama performances and elocution competitions among the students.

Millet Food Competition



AF organized a Millet Dish competition on July 14th. in Collaboration of ICDS Department. Top three winners were recognized, and rewarded them, encouraging millet-based cooking

Conservation of the Mangrove Ecosystem



On July 26th, Mundra Petrochemical celebrated Mangrove Day with spreading awareness over 9th and 10th-grade students and Fisherfolk The session ended with a Mangrove plantation. 150 + People had participated.

Kala Utsav Program



Kalautsav program was organized in collaboration with the District Education Department, on the 11th of August. The event was featured with various competitions, including drawing, singing, and instrumental playing. 70+ students from secondary and higher secondary schools from 42 School of Mundra had participated..

Rakshabadhan Celebration



On Rakshabandhan, ecofriendly Rakhi making competition took place in all Utthan schools of Mundra. 46 exceptional girl students tied their Rakhis to BSF soldiers in Jakhau as a gesture of respect and gratitude.

Dr. Priti G Adani mam's 58th Birthday



On August 29th, Mundra Petrochem Ltd. marked Dr. Priti G Adani's 58th birthday with three impactful initiatives: 8,000 tree plantings in Deshalpar village, 500 sapling distributions at Government High School, and a workshop for 60 farmers on sustainable farming, all geared towards enhancing the local ecology and community resilience.

VVIP and VIP visits

Kajal Oza – Vaidhya



Famous Gujarati author and motivational speaker Mrs. Kaajal Oza Vaidya visited our Natural farming fields in Mangra village.

Fulcrum Batch 0



HODs of different
business group of Adani
came for CSR visit of
Batch-O as part of
Fulcrum Leadership
Development Program at
Mundra.

Jay Vasavda Visit



Famous Gujarati writer and orator Mr. Jay
Vasavada had visited our
CSR work.

Pranav Adani Sir's Visit



Mr. Pranav Adani, along with other VIP guests, visited the Mangrove Plantation area in Luni coastal.

VVIP and VIP visits

VIP Visit: Ms. Lisa



Mrs Lisa MacCallum,
Independent Director of
Adani Energy Solution had
visited our CSR work at
Mundra.

VIP Visit – Sairam Dave



Mr. Sairam Dave, a renowned humorist and educationalist, visited Uthhan to inspire and motivate the students and teachers.

Journalist Visit



All journalist team came from Jarkhand ref by Ms.
Varsha Chainani. They visited Women
Empowerment and
Agriculture Projects

AVMB Visit – Sairam Dave



Mr. Sairam Dave, a renowned humorist and educationalist, visited AVMB to inspire and motivate the students and teachers.

Award & Recognized

The Gujarat State Disaster Management Authority has acknowledged Adani Ports and SEZ for their outstanding support in establishing the world's topranking Miyawaki forest at Smruti Van, Bhuj. The Adani Foundation team actively monitored the project's advancement and made frequent site visits to ensure effective coordination.





Mr. Rajubhai, a team member of the Adani Foundation, was honored with the District Level Van Mitra Award by the District Administration during the 74th Van Mahotsav for his outstanding contributions to intensive tree plantation initiatives.

Case Study



A Breath of Change: Soanbai's Bio Gas Journey

Sonbai Vishram, a diligent 46-year-old woman, resides with her close-knit family in Vadi Vistar, Zarapara. She oversees a herd of 13 cattle with enthusiasm while caring for her seven family members. However, her life was far from easy. Every day, she would wake up at the crack of dawn and head into the dense farm to gather firewood. The Chulha, a traditional clay stove, was her only means of cooking, but it came with a hefty price.

Chopping wood and inhaling the thick smoke took a toll on Sonbai's health. Her eyes stung, her chest felt heavy, and she often found herself coughing uncontrollably. Furthermore, a lot of time is consumed by cutting wood. She deeply longs for more moments with her family, rather than devoting all her time to woodcutting; this sometimes leads to feelings of regret and sadness.

Seeing her mother's condition, her daughter Jetbai felt deeply disheartened. Fortunately, she learned that Mundra Petrochem was distributing biogas through a government-funded project "Gobardhan" to assist those in needs. She reached out to the Mundra Petrochem team, and upon witnessing her helplessness, they extended their support. They took full responsibility for all the documentation, registration, banking work, and installation. They also cover 50% of beneficiaries' biogas expenses. Additionally, they offered comprehensive training in biogas usage and maintenance, along with regular follow-up visits.

As soon as the biogas stove was up and running, Sonbai's life began to transform. Cooking became a breeze, and the air in her kitchen was free of choking smoke. Now, after eight months of using biogas, Sonbai's health has shown remarkable improvement, and she feels more energetic than she has in years.

She couldn't believe the remarkable transformations that had occurred in her life. Now, whenever she meets our team, she expresses her gratitude, and witnessing her radiant smile and heartfelt thanks, we find the true reward for our efforts.

Rising Above the Menstrual Taboo

This is a story of Laxmiben and many women like her living in Zarpara village. As women, they have the incredible gift of giving birth, but they also go through the monthly menstrual cycle. However, in many villages, including Zarpara, menstruation is considered a taboo topic. Women are often hesitant to talk about their personal experiences, and many don't even know about the menstrual cycle and its science.

Seeing the challenges faced by these women, Devalben and Roopaben, with the support of the Adani Foundation, organized a menstrual hygiene awareness camp in Zarpara. In this camp, they provided education about menstrual health to all the women. In just a short session, women began to open up and talk freely about their experiences. They revealed that they had never used menstrual products and typically relied on old, used cloths. In addition to this, their daughters had to miss school due to a lack of resources and the uncomfortable feeling during their periods.

Hearing these stories, Devalben and Roopaben explained the harmful effects of using old cloths and not maintaining proper hygiene during menstruation. They introduced the women to different menstrual products and taught them how to use and dispose of them correctly. They also discussed the various health issues that could arise from poor menstrual hygiene. Many women realized that they had experienced symptoms of these health problems but had never paid attention to them.

To help the women understand better, they showed an informative video about the menstrual cycle. After the session, the women felt grateful for the knowledge they had gained. Many of them admitted that they had never taken menstruation seriously before but were now committed to practicing proper menstrual hygiene. Those with symptoms of menstrual health issues decided to seek medical advice and treatment. All the women pledged to use sanitary pads regularly and ensure that their children's health and education were not affected by menstruation.

Our team was equally delighted that these women had broken free from the menstrual taboo and were determined to prioritize their menstrual hygiene.







Mayuri's Journey: A Tale of Determination and Hope

Mayuri comes from a simple middle-class family with four sisters. Her mother is a homemaker, while her father is a wage earner. They didn't have a lot of money, and life was tough.

Despite the financial hardships, Mayuri applied for the PSE exam, hoping it would open doors for her future education. She embarked on this journey alone, being the sole girl in her class brave enough to take on the competitive exam.

Mayuri's life took a hopeful turn when she crossed paths with Utthan Sahayak. This mentor provided her with a comprehensive guide for the PSE exam. This guide was like a lifeline for her. It made her feel more confident and less confused.

Mayuri was determined to succeed. She worked really hard. She found books and old exam papers to study from. She even watched videos on YouTube to learn more. She spent 2-3 hours studying every day, sometimes giving up fun things to focus on her studies. She didn't keep all that knowledge to herself; she shared what she learned with her friends and even during school prayers.

Mayuri went to the library often and used teaching and learning materials to learn more. She read a lot and practiced so much that she became really good at school competitions and public speaking. Her general knowledge improved and she became an expert in Gujarati grammar.

But, despite all her hard work, Mayuri didn't get the top score in the PSE exam. It was really disappointing for her. She had worked so hard, and it felt like all her efforts were in vain. But, it wasn't all bad. This experience taught her to never give up and to keep hoping for a better future.

The Magic of Practice: a remarkable Handwriting Transformation

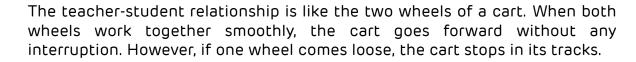


Buchiya Nita, a diligent third-grade student at Gundala Kanya School, faced a deep-seated issue - her handwriting. Despite the correctness of her content, her messy handwriting often cast a shadow on her answers, making them appear incorrect. She held a belief that her handwriting would never improve and that it didn't hold much significance.

One fateful day, a compassionate Utthan Sahayak named Chauhan Kinjalba stepped in to assist her. Kinjalba aimed to aid Nita in enhancing her handwriting and enlighten her about its importance. Kinjalba noticed the errors Nita made while writing and gently pointed them out, allowing Nita to rectify them independently.

Nita's daily homework included writing a paragraph. Through persistent practice and unwavering commitment, her handwriting gradually became neater over several months. The ultimate test arrived when a calligraphy competition was organized. To the delight of everyone, Nita secured the second position in the competition, and her heart brimmed with joy at the remarkable improvement in her handwriting.





One such story revolves around Kumbhar illiyash, a student at Gundala Kumar School. Utthan Sahayak learned from teachers and fellow students that Illiyash was quite mischievous. He occasionally took items from other kids in class, sometimes bothered his classmates, disrupted the class with his behavior, and frequently seemed disinterested in his lessons.

Utthan Sahayak decided to have a loving and understanding conversation with Illiyash to encourage him to change his behavior. They would sit together every day, and she would teach him new habits and engage him in various activities. Gradually, Illiyash started developing an interest in learning, and with consistent effort and engaging activities, his active mind was redirected toward education, leading to a positive change in his behavior.

Just as milk and curd complement each other, Illiyash, once a mischievous child, has transformed into a well-behaved student today.



Raisingh's Inspiring Journey: Overcoming Disability to Find Independence



This is the story of Raysi maheshwari, who lives in Mota Kapaya village. When he was just 2 years old, he was affected by polio, and as he grew, 75% of one of his legs became nonfunctional. His childhood was different from other kids, he faced a lot of difficulties in doing daily tasks and had to depend on others. It's truly hard to put into words the profound difficulties he endured because of his condition. In the face of disability, Raysi's thirst for education and his refusal to depend on others for his livelihood remained unwavering. His determination was unbreakable, and he fearlessly confronted every obstacle that crossed his path.

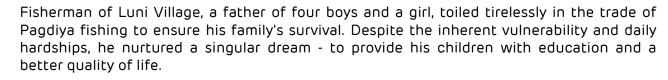
Raysi completed his education up to the 12th grade and started searching for a job to become financially independent. However, transportation was a big challenge for him. He had to walk long distances many times, even though it hurt because of his disability.

Fortunately, in 2021, he learned about a job fair organized by the Adani Foundation on World Divyank Day. He decided to participate and impressed the interview panel with his skills. As a result, he got a job as a Gate operator at Rangoli Gate, Adani Port with a monthly salary of Rs. 13,000. Because of his dedication and hard work, his salary was later increased to Rs. 18,000 within a short time.

In addition to the job, he received medical certificates and continuous support from our team. Raysi is married now and has two children. His wife is also disabled, and the Adani Foundation supported her with a wheelchair. Now, she can efficiently manage household chores in less time.

Raysi and his family deeply appreciate these assistances. He now earns enough to provide for his family and support his children's education. The family is no longer financially dependent on anyone and lives with dignity and happiness. The Adani Foundation feels fortunate to witness the positive changes in the lives of people like Raysi, and consider it as the most meaningful reward for their efforts.

<u>Shaping Lives:</u> <u>From Pagdiya Fishing to Prosperity</u>



Through immense sacrifice and unwavering determination, he managed to educate his children up to the primary level. However, as their education progressed, financial constraints became a significant impediment. Unfortunately, two of his children had to drop out after completing the seventh year of their education due to these financial limitations.

Upon learning about their struggles, our organization reached out to him, extending scholarships to support the further education of his children. This assistance rekindled hope, allowing his second child to rejoin high school. Subsequently, it paved the way for the third and fourth child to continue their studies up to the twelfth grade.

However, our support did not end after their high school graduation. We maintained consistent contact, providing guidance and mentorship to tailored their individual interests and strengths, with the aim of helping them establish their careers.

As a result of our interventions, the children have experienced a remarkable transformation. The eldest, Mr. Altaf, attended RTG training for three months and is now employed as an RTG Operator at Adani Port, earning a salary of Rs. 22,000 per month. The second son found employment at MICT as a supervisor, earning Rs. 17,000 per month. The third child pursued his passion for photography and started his own photography studio, earning more than Rs. 20,000 per month.

Their father, Ali Mammad, expressed his heartfelt gratitude towards the Adani Foundation for their scholarship support, which served as a beacon in shaping their children's lives.





Breaking Waves of Poverty: Empowering Fisher folk through Education



The Fisher folk community resides a significant distance from the main city. Their primary means of sustaining themselves centers on fishing. This community experiences financial hardship and lacks access to education. They are hesitant to explore other professions because they have no education, awareness, or support. The challenging circumstances of their parents also affect the well-being and future prospects of their children.

Due to financial struggles, the children in the fishing community could only manage to complete their primary education before being compelled to join their parents in fishing jobs. This heart-wrenching cycle not only robbed them of the opportunity for a brighter future but also kept their community trapped in the clutches of relentless poverty.

Upon discovering their dire circumstances, the Adani Foundation Team with Mundra Petrochemical empathetically engaged with the children, who tearfully expressed their deep desire for education but sadly acknowledged the lack of sufficient resources to afford the necessities for school.

In an effort to uplift underprivileged children in the community, our team decided to provide them with vital learning materials to alleviate their financial burden. We provided students in grades 9 to 12 with essential educational materials, including textbooks, notebooks, and school bags. This initiative benefited a total of 61 students from the villages: Navinal, Modva, Tragdi, and Zarapara.

As a result of our support, both the children and their parents found substantial financial relief concerning education. This resulted in a decrease in school dropouts, and the children started attending school consistently. They now study without the burden of financial constraints and have a renewed determination to chase their dreams and secure stable jobs.

We consider ourselves incredibly fortunate to have been able to assist these children. Our longstanding wish has been for the children of fisher folk not to be confined to the path of becoming fishermen but to instead pursue education and secure stable jobs, thus breaking the cycle of poverty.

Unleashing Potential: Education beyond Boundaries



Modhva is a small village in Mandvi having a handful population, the life here revolves around the gentle rhythm of fishing. Families struggle with making ends meet as meager earnings barely cover daily expenses. The children in the village receive a basic education, advancing only to classes 5 or 6. Unfortunately, after this stage, a significant number of these young learners are bound to leave school and join their parents in the fishing trade.

Acknowledging the plight of undereducated students, Adani Foundation in coordination with GPVC team organized distinct meetings with both the students and their parents. In a heartfelt confession, the students expressed their eagerness to attend school but due to the lack of a local high school and financial constraints, they were unable to attend the nearby high schools. The parents clarified that their village serves as the last settlement along the coastline. Consequently, because of its remote location, there are no available transportation facilities. Their means of livelihood barely cover their essential expenses, leaving them unable to afford personal vehicles or rely on daily public transportation. Many parents wish to educate their children but feel helpless to do so.

Recognizing the economic challenges faced by the parents and driven by a commitment to educate these vulnerable children, our team stepped forward to assist by offering a complimentary transportation solution. Through firm dedication, we secured a van capable of accommodating twelve students, which has now been provided to the villagers in need. A local resident has been entrusted with the role of the driver, receiving a fair wage for their service.

Since June 2023, a group of six girls and five boys have shown unwavering commitment to attending school in the village of Gondiyali, situated 16 km away from Modhva. The fear of dropping out no longer casts its shadow, and parents are relieved of the burden of transportation expenses.

Upholding the belief that education is a boundless right accessible to all, GPVC team wholeheartedly extend our wishes for a future brimming with opportunities and success for these children.

<u>Shaping Lives:</u> <u>From Pagdiya Fishing to Prosperity</u>



Imagine finding yourself trapped in the clutches of old age, battling declining health, and struggling with dire financial constraints. What would be Next? However, within these challenging and circumstances, there are some remarkable stories of individual, Through his journey, we witness how timely intervention and unwavering support can breathe new life into individuals and their families, igniting a flame of hope, healing, and renewed optimism.

One such story is that of Siddique Bhai Khatri, a 63-year-old resident of Mundra, Kutch fighting a relentless battle with tobacco addiction, succumbs to the merciless grip of oral cancer. As he receives the devastating biopsy report, it not only reveals the grim reality of his failing health but also serves as a stark reminder of his near-empty bank balance. With the exorbitant cost of the necessary operation hovering around 2 lakhs, Siddique Bhai finds himself teetering on the precipice of desperation.

Recognizing the Adani Foundation as a trusted ally in times of health-related crises, Siddique Bhai connected to Kishor Bhai, a representative from the foundation. personally visited Siddique Bhai's home on same day, This gesture of care provided much-needed solace to Siddique Bhai and his worried wife, who openly shared their financial predicament and concerns about the illness.

Understanding the urgency of Siddique Bhai's situation, Kishor Bhai assisted him in swiftly obtaining the Ayushman Card. Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (PM-JAY), offers comprehensive healthcare coverage of up to 5 lakhs for various hospitalization within a remarkable 8-hour timeframe. This prompt response and timely access successfully underwent Sidikbhai to the much-needed operation at Adani GK General Hospital.

After a recovery period of 8 days, Siddique Chacha returned home, reinvigorated and ready to face life's challenges anew. Today, two months later, he can be seen in the marketplace, his eyes twinkling with joy and gratitude. Meeting Kishor Bhai, Siddique Chacha's eyes speak volumes, conveying his deep appreciation for the Ayushman Card and the support provided by the Adani Foundation.

As of the date, over 5584 Ayushman cards have been issued, enabling individuals to access essential healthcare services.



કરછ ભાસ્કર 25-06-2023

મુન્દ્રામાં નવી શાકમાર્કેટ અઠવાડિયામાં ધમધમતી થશે

નગર અને બારોઇરોડના તમામ લારીધારકોને સ્થાયી થવા પાલિકાનું આહવાન

યુન્દા ભારોઈને સંયુક્તપકો પાલિકાનો દરકાલે મળ્યા ખાદ શહેરની ટાઉક સમસ્યા હળ કરવાના ભાગરૂપે દબાશકર્તા તમામ શારીખરકોને આઝાદ भेडान स्थित नदी सारमार्केटमा ખરીડવાની નિર્ણય લેવામી હતી. ખાદ તેમાં જારૂરી સુવિધાઓ સાથે મદાશી કાઉન્ડેશનના માર્લિક સહયોગથી શેડનું નિર્મણ થઇ જતાં ઉદ્યોગયનિ ગોતસભાઈ અડાશીના જન્મકિત નિસીતે તેનું લોકાર્યલ કરાયું હતે.



ઉપસ્થિતીયાં, હાલ 195 સ્ટોલ તૈયાર હોવા, અહીં સ્થામી ધવાના આતવાન, વેલાએ સત્તાપક્ષ અને વિપક્ષના સ્થાનિક પોરાસભ્ય અનિસ્દ્ર વાર્કેટ વિષિયત મુલ્લી યુકાઇ પર ભાર મુકતા અસ્વાકિયામાં સાથે સહયોગ આપવાની અધીક નગરસેવકો ઉપરાંત અહોપી દવે, સેટના સીઈઓ રસિતભાઈ હતી. પાશિક પ્રમુખ કિલોર્સિક્ટ કાઈટનું કામ સંપન્ન પણ બાદ કરી હતી. ધારાસભ્યએ કરેક સંખ્યામાં સામાજિક આગેલાનો શાહના હરતે કતા અને વિપક્ષના પરભાવે રૂપરેના વર્ષેવતા માર્કેટમાં કર્વે મહાનુભવીની હાજરીમાં લારીધારક સંપીને વસવાટ કરે ઉપસ્થિત રહ્યા હતા.

સ્ટોલ દીઠ રૂ1.4500 ભાડું : લાઇટ બિલ પાલિકા ભોગવશે

અને નોંધનીય છે કે ઇચ્છક છારીધારથીને છે પહલિથી સ્ટોલની કામ વર્લી ખાદ તેમને પ્રતિયાસ રૂં. 4500 આડું ચૂકવવાનું રહેશે. તેમજ તેમાં, ભાઉટ મોમાઈક વાર્ષિયા, વજન શંદા સમેત વીજગીના ચાર પોઈન્ટ આપવામાં આવ્યો અને વીજાનીક પાકિસ ભાગો, ઉપરાંત કાયવાની માર પણ રહી જતાં શારી પારસે માટે શામેની માજબે અન્ય 50 સ્ટોલને નિર્માણ કરી સમામ જરૂરિયાનમાંદ્રો ને આવટી લેવાલે

પારદર્શક રીતે કો કરી ઇચ્છુકોને 🖟 નગર માટે આઝાદ માર્કેટ એક શેરની, કાળવાની કરવા અંગે સીમાચિકન રૂપ બની સ્ટેવાની મકાશ પાડી તમામ શારીપારકોને લાગશી વ્યક્ત કરી હતી. કાર્યક્રમ

ગૌતમભાઈ અદાણી ના ૬૧ માં જન્મદિવસની કચ્છ સ્થિત વિવિધ પ્રકલ્પો દ્વારાવિવિધ સેવાકીય કર્યો કરી ઉજવણી કરવામાં આવી

ચાંદીની ચમચી સાથે તો કેટલાક મહેનતથી પોતાના જવનને આદર્શ भनावे हो. घडेनतथी पोताना જીવનને આદર્શ બનાવનારાઓમાં ઉદ્યોગપતિ થી ગીતમભાઈ અદાવી મોખરે છે. ગીતમભાઇ માત્ર ભારતમાં જ નહીં પણ વિશ્વમાં મોખરાની હરોળના ઉદ્યોગપતિ છે. તેઓ માત્ર ઉદ્યોગપતિ તરીકે જ નહીં અનેક જીવદયા અને સેવાકીય પ્રવૃતિઓ માટે પણ પૈકાય છે. આવા લોકલાડીયા ગૌતમભાઇના જન્મદિવસની અનોખી ઉજવલી મુન્દ્રા ખાતે કરવામાં આવી. અદાવી વીલમાર લી. નાં કર્મચારીઓ દારા મુન્દ્રા તાલુકાના નિરાધાર વૃધ્યો અને દિવ્યાંગોને રામનકીટ સપોર્ટ આપવામાં આવ્યો. યુન્દ્રા તાલુકાની **૭-પીએચસી અને ૨-સીએચસી માં** ૫૦૦૦૦ જેટલા વર્ષો અને રોપાનં વિતરણ કરવામાં આવેલ છે. જેમાં શતાવરી, ગરમાળો, ગુલમહોર, જમૂન, તુલસી, ગિલોય વગેરે નો

કેટલાક લોકો જન્મે છે



સમાવેશ થાય છે. આ ઉપરાંત અપ્રદાતાનું ત્રણ ચકવવા દર વર્ષે અદાશી ગુપના દરેક બીઝનેશના કર્મચારીઓ ખ્લડ ડોનેશન કેમ્પ લોજો છે. અને હજારોની સંખ્યામાં રકતદાન કરી શ્રી ગોતમભાઇ સાહેબનો જન્મદિવસ ઉજવે છે. અદાવી કાઇન્ડેશન તરકથી **४-**बरिवसनी **५**४ववीना भाग રૂપે મુન્દ્રા અને માંડવીના માછીમાર સમુદાયના બાળકોને શૈયક્ષિક કીટ આપવામાં આવી હતી. આ બાળકો બંદર ઉપરથી શાળામાં નિયમીત રૂપે જઇ શકે તે માટે વાહન સવિષ્યની પણ જાહેરાત કરવામાં આવેલ છે.

૪ન મહિનાના બીજા અઠવાડીવાદરમ્યાન આવેલ વાવાઓકાના કારણે ખારેકના પાકને ખુબજ નુકશાન થવું છે. કૃષિ વિજ્ઞાન કેન્દ્ર અને કચ્છ કોપ સર્વિસનાં માધ્યમથી અદાવી કાઈન્ડેશને શક્ય તેટલા ખારેકના ઝાડને બચાવવાને ખત્રીરથ પ્રયાસ આદર્થો છે. ૧૦૦ થી પણ વધુ ખારેકના ઝાડને પ્રથમ યરજર્મા નવજીવન આપવામાં આવશે તેવી જાતેરાત આજના સપરના દિવસે અદાવી કાઈન્ડેશન દારા કરવામાં આવી આશુભ શરૂઆત કરતા શ્રી અનિરૂધ્ધભાઇ દવેએ જણાવ્યુ કે ખારેક એ કચ્છનું કલ્પવસ છે, વાવાસોડામાં નુકશાન પામેલા દેશી ખારેકનાં ઝાડને સજાવન કરવાની આ પહેલ સરાહનીય છે. ખેડૂતોની આર્થિક સદ્વરતા માટે પણ આ પ્રવાસ પણ સારા પરિભાગ લાવશે.

હતી, માટ રીમાં વચ્ચે કુલ કર મેલ . હતા, માં પ્રવેશે ટ્લાયેન્ટના સ્મેન્ચર, . આવેલકોને મહિલીન પાઠવા હતા.

મુંદ્રા તાલુકાના તમામ લોકોને 'આયુષ્યમાન' હેઠળ આવરી લેવાશે

No. 197 - William States here have when audience sul secret sel-law new printer of Knew, working and sampling મેજવામાં મહિલાઓની ભાગીદારી વર્ષ તે હેતુવી મૂંદા તાલુકામાં મહુહેતુક todayang senatry a strand sensi. पंचां स्वपूच्यान स्वतंत्र व्हेणका NA HE WHEN SHE SHE મને તેમજ મહિલ સ્વહિનારવને Mark several serie, and Firms princil ve sources solve strain val from Fests refresh સ્તિત મહાનુષ્યાં માત્ર ઉપસ્તિત રાક્ષ હતા. ખૂજપુર ગામે અલુવાલન મહાત લોજવાદી લોકોને જેટલ ખાલ કેમનું આવેલન કરવામાં માનું. results herein fluss no રૂપિયા ૧ લભ્ય સુધીનો ઉલાઇ મહત reversi resi (il. sell'intere સી.લંગ.લાર. તેર વીંક્યન શાહ year o's reased wave भीत्वा ईक्सपी वींक्र न को ने को मार्थ रत्र र सुधीमां समक्र लाहुआने toos wall due, build शंक्षानं कर्षे धरीनीकनने कि करे

રાખી મંડાયોની મદદથી સમાઇક પૂર્વ स्टबामां व्यवसी, व्यासी सर्च-दिक्का अभितापृतिक विरोधता पर्यंत स्वाधीनो भ्य सर्वत्रमान् १०० तम परिवास મળી રહે તે માટે લાઇ રાઇટ કરાઈમાં યુવાના તથામ સામોમાં કોર ટું હૈર जेमेह हुए हर प्रमुख निर्देश स्थापन है. કાર્યાં કે કાર્યાં કાર્યાં કાર્યા કરવામાં – ચુંદર કરા વ્યાનપુર્કત વરકથી भवतन्त्र क्षरणं वर्ता पुत्रकान सन्ते પરભાઈનાં સરક સંદેશ બાપવામાં अर्थेक, व्यवस्थित महीना विकास NO MADRINE HOUR, HE SOLD પ્રમાણની આ પછીઓડીએ દેશ Detailed world soon and ignill

ખપીય કર્દી હતી. આ લાવે જ આદલી श्तीनोक्षने महिन्दाओं को नामुस two with antiques wit चरित्र रामचा" सर्वाच का वर्ष છે. જેમાં આવેલ્ય, સ્વાઇના અને રોક્સ્પરી અંગે ભગેદરાંત સાલોગ ween and it. apain व्यक्तिकाले वस्त्री विकार प्रेपकार्थ भने म्बक्तिस वर्षन को शकी den sinn, summen yard ખને ઉપાયો ત્રિકો માહિની આપવામાં soid from the selection ultifelionis musi stu-MARKET HER WE'D.

વાવાઝોડાનાં અસરગ્રસ્તોને ભોજન, આરોગ્ય સહિતની અદાણી જૂથની સેવા

કાઉન્ડેશન દ્વારા લોકોને હજારો ફૂડ મેકેટ અમાયા : રેસ્ક્ય ટીમ ખડેપગે રખાઈ

ભુષ્ય, તા. ૧૫ : મુંદરા સ્થિત અદાશી અઉત્તરેશનની દીધ વાવાઝોલના શ્રેપ્યને પહોંચી વળવા એકેચોટીનું જોર કગાવી રહી છે. કાઉનંત્રાને હારા લોકોને 🚄 હજારોની સંખ્યામાં ફૂટ પેકેટસ, મેડિકલ સેવાઓ, થચાવ અને અગમયેની માટે સાવધ કરતા તમામ પગલાઓ લેવામાં આવ્યાં છે.

યાદી મુજબ અદાલી સમૃદ હારા આશ્રવગહોમાં ખરાહવેલા લોલેને ૧૩મી જુનથી દરશેજ 18.000 seni 48 81 પૈક્ટસનું વિતરણ કરવામાં આવી રહ્યું છે. ઉપરાંત આશ્રમખહોમાં હજારો અસરચસ્તો પસંક્ર્યામાં આથા છે. તેમને ભોજના, પીવાનું



અદાવી પોર્ટના સીઇઓ સહત કંમ્પની મુલાકાતે.

કોસ્ટલ હોન માકદિમાર વિસ્તારમાં સ્વભચાવ માટે એક્લિક્યુટિવ હવરેક્સર રક્ષિત મોબાઇલ-આપાર્ધિત એલર્ટથી શાહે જણાવ્ય કે 'આક્તની લોકોને સાવચેત કરવામાં આવી. આ પ્રદીએ : અમે તકેદારીના રહ્યા છે. એટલું જ નહીં, લેલપણ, તમામ પગલાંઓ લીધા છે. જાતની હોનારત જાનમાદના આશ્રપગુરોમાં તમામની નુકશાનને પહોંચી વળવા સુરક્ષા અમારી

પાણી અને મેડિક્ટ સેવાઓ દેશક્ય ટીબાને ખડેપમે રાખવામાં પ્રદાન કરવામાં આવી રહી છે. આવી છે.

ર્વેક્ટર્સ, કવાઓ, ફૂડ મેકેટસ અને - પ્રોથમિકતા છે.

ઉમરપાડામાં ટીબીનાં ૭૦૬દીઓને ધારાસભ્ય

one felt tree earsed field ભાવાસ સર્વકમ ચોજાયો હતો. ભાં યાજા મંત્રી અને પારસભ્ય લપતસિંદ વસવા અને આવલી મરીન સર્વિસના જનરલ you willing lives

FIRM WARL SO YOU JUST હર્મિનોને ત્યુકીશન કરિલ્યું વિતરણ my on word artists are પ્રેયક આહારથી ભરપુર કીટ આપવા. ઉપરધાડા તાલુકા પંચાયતના પ્રમુખ. શીધા હતા, આ કીટમાં પડેનો લોટ : આવશે ધારસભ્ય ગયાપત વસાયાએ કર્મશ વસાયાં, કારોબારી અભેલ ક્રિયો, મળા અને મગ દાવ કરિયો મર્વકાનની શરૂઆત કરતાં જવાભુ ગુશાબ વસરવા, કરણ વસાવા, વિકાસ દાભ 1 કિલો, તેલ 500 સામ હતું કે, આપણી લાઇન્ડેશન કારા રસીસિંહ ચીપરી, શાંતિલાલ વસાવા, મગલથી 500 ક્રામ અને લોલ ! કિલો

differ the one

ઉમરવાડા ખાતે હી.મી.મુક્ત કામગીરી શરૂ કરી છે બે ખૂબ જ હે. નવીન જેન, હે. દિવા સ્થીત ઘરત કર્યક્રમ અંતર્ગત અદાવી પ્રદેશનીય છે. પીપિંક ખેરાક ખાવામી અનેક લોકો ઇપરિંત રહ્યા હતા. લ્ડી-દેશન તેમજ તાલુકા આદેશ્ય આ દેશ જલી માટી શકાય છે. એમ કાર્યક્રમની કારૂઆતમાં ઉમારવાડા



લાગામી છ માત્ર સુધી આ દર્દીઓને. તેમણે ઉમેર્યું હતું. આજના કાર્યક્રમમાં, ટીમી મુક્ત જનાવવાના કારલ પર મ્લીકવાલી વિસ્તારના ટીપીના અમીપ વસાયા, માટેટમ વિચાગના પેટલી સામગ્રી હતી.

નાનામાં નાના લવલો પણ જોવા મળે અને તરત ઈશાય પણ શરૂ થઈ શકે. લાવામના પોલ્પવાડ ગામ ખાતે ટી.મીં. જન્મજારિ દાર્વદ્રમ પોલામો હતો જેમાં धमना सरपंथवी समेत 125 परण ગ્રામજનોએ ભાગ લીધો હતો. સર્વક્રમ

Gerry allon aithus diffren

स्थापमा करे क्योग हरी तही पेपी

પહેદીયાએ ગ્રામયનોને ટીપી ટેલ

અદાલી કાઉન્ડેશન દારા ઉંમરપાડાના ટીબીના દર્દીઓને છ મહિના સધી કીટ આપવામાં આવશે

અદાણી ફાઉન્ડેશન દ્વારા મુંદ્રાના મહિલા સ્વસહાય જૂથને ગૌ દાન !

ગાય આધારિત ઉત્પાદનો લાભાર્થીઓ માટે 'કામધેન' સમાન

જારતીય પાંચુતિમાં લાખન niel titti intynni intyl पत्त्व, सी-स्वत्रवादिक पोत्ती स्वतं à vince servi morse servi tené strán mentel teré til. के रेक्ट के जिल्हा की कि अपने की લીજું શું કરી ! આકારી કાઉન્ડેસન ani wash tenan wan પૂર્વ ૧૪ મામનું દાન કર્યો વાંજરારી સાથે પ્રાપ્તિક પંતીને race wrene two or ાયમાં ખાખ છે. બેટલું જ નહીં, લાઉનોલન તેમને ગામ ખાવાદીન भारत करी भाषा संस्थात



દુનિયોજન પ્યાપ્ત્ય અને માર્પદાર્થન કામજ દાખપા તેમના દ્રાંતિની

Franci squad sive nen લાની કરતાં વધુ છે. ખેતી અને પશુપાલન આકારિકાનું મુખ્ય સાધન તોવાથી લોકો પશુપ્તની સારાંભાવ toward water it, would advine nei Breens weeze all was would warke Parametrial states will act-bee शक्तुं (६, वी क्लं तात कंच ઉત્પાદનોનું પોલાંગ અને અને માર્ડિટ and unimed airs wereni WILLIAMS, WARM SHIPPED

sorthy transitional authors अरक्त चीरान सम्बन्धीनंत्री महर्गित red summer Sellini norgy. લનવે. ત્રી દાવના લાભાગી snowed want of 1 never લાવેલ અંત્રામાં ઈપારમાં પાસ હોય છે. अर्थ पान पानाने अवतार हुई करा । हान्याओं पान ते, पार्टी में कुन, आता રાજ્ય સમય સામિત છીએ, ઉપલ god secol, dise mayor - 5-years with me it, her उत्पादना फलावी भागा बंगवी sales ales, record articles. तराची करेतु मेराल अकार करे

With links 6. રાય માદાર્વિત પ્રાર્થિત ખેતીથી . આમ આ ગોદાન લાભાવીમાં માટે

अंतरी खेले साथ पाप छै, पीक्त અને વાર્લ્સ કાળ ખાતાને ખાતા when it, early femal went we visum runiwith the, પંતીપાંચ પડાડે, ગી સંયુનિય sixtin, marginal reviewed ઉત્પક્તિ અને વૃદ્ધિ મોવા અનેક भने भारी गामधी भनाप भागातिन भेनीमां ३० रात महेल પાલીની પણ પાં છે. રાખ્યું દૂધ

उत्तम भीपा अने तंत्राची अनती

પીજપાલમાં આપાનો લોત છે.

Long Mill Morall activities भागीतांच लेशक घट की क्या મહિલાઓ સાથે 'શે સહેલી રવ mere was It were seen 411691, del 44151 saria recorana Sweller

રાજ્યપાલનું પ્રાકૃતિક ખેતી માટે આહ્વાન મુંદરા સ્થિત અદાણી ફાઉ. સાથે શ્રી રાજરાક્તિ પ્રાકૃતિક ખેતી માટે આહ્વાન મુંડળીના ખેડૂતોએ મુલાકાત લીધી

ભુજ, તા. ૩૧ : અહીંના અદાણી કાઉન્ડેશને ખેડૂતો પ્રાકૃતિક ખેતી અપનાવતા થોય અને લોકોને કેમિકલ ખાતરમક્ત ખોરાક મળી રહે તેવા ઉમેદા ઉદેશને સાકાર કરવા બીડે ઝડપ્યું છે. આ સંદર્ભ મહત્ત્વપૂર્ણ માર્ગદર્શન મેળવવા ગુરુવારે ગુજરાતના રાજ્યપાલ આંચાર્ય દેવવતજની મુલાકાતનું આયોજન કરાયું હતું. કચ્છની સૌ પ્રથમ શ્રી

> રાજ્યપાલ આયાર્ય દેવવ્રતજીની કચ્છની સૌપ્રથમ શ્રી રાજશક્તિ પ્રાકૃતિક ખેતી સરકારી મંડળીના ખેડૂતોએ મુલાકાત લીધી હતી. તેમની સાથે અદાણી ફાઉન્ડેશનના ગુજરાત સીએસઆર વડા પંક્તિબેન શાહ અને પારાસભ્ય અનિરૃદ્ધભાઇ દવે રહ્યા હતા.

રાજશક્તિ પ્રાકૃતિક ખેતી સહકારી મંડળીના ખેડૂતોએ રાજ્યપાલની રૂબરૂ મુલાકાત લઇ પોતાના પ્રાકૃતિક ઉત્પાદનો દેવવતજન અર્પેશ કરી પ્રાકૃતિક ખેતીના અનુભવોનું આદોન-પ્રદાન કર્યું હતું. આ મુલાકાત બાદ ખેડૂતોમાં નવી ઊર્જાનો સંચાર થયો હતો.

રાજ્યપાલે જણાવ્યું કે 'ખેડતોમાં મનમાં વાવેલા પ્રાકૃતિક ખેતીના વિચારો આજે મને ઊગી રહેલા દેખાય છે. મને પ્રાકૃતિક ખેતી કરતો ખેડૂત કદી દુઃખી જોવા નથી મળ્યો. આપ સૌ ખેતી કામ કરતી બહેનોને સાથે

લાવ્યાં તે બદલ અભિનંદન આપું શું.'તેમરો ઉમેર્યું કે 'બહેનાં એકવાર જે નક્કી કરી લે છે તેને જીવનભર પાળે છે. આપ સૌમાં રહેલો પ્રકૃતિપ્રેમ રાજભવન સુધી ખેંથી લાવ્યો છે.' તદુપરાંત જે ખેડતોના ખેતરનો ઓર્ગેનિક કાર્બન ૨.૦થી વધુ છે તેઓને અભિનંદન આપ્યા હતા.

દેવવ્રતજીએ મુંદરા તાલુકાને પ્રાકૃતિક ખેતી તરફ લઈ જવાની સામૃતિક જવાબદારી ઉપાડવા ખેડૂતોને આહવાન કર્યું હતું. એટલું જ નહીં, પ્રાકૃતિક ખેતીના પાંચ આયામાં જીવામૃત, ધન જ્યામૃત, અળસિયા, આંચલદન અને પંચગવ્ય થરે જ બનાવી ખેતીમાં તેનો ઉપયોગ કરી ઉત્તમ ઉત્પાદનો મેળવવા સુચન કર્યું

આ મુલાકાત માટે માંડવીના ધારાસભ્ય અનિરુદ્ધભાઈ દવેએ ખેડૂતોને પ્રોત્સાહન પૂરું પાડતાં જણાવ્યું કે 'કચ્છ દરેક ભાબતની પહેલ કરવામાં હંમેશાં અગ્રેસર છે ત્યારે મને વિશ્વાસ છે કે આપણા ખેડૂતો આ બાબતે પાછીપાની નહીં કરે. આપના ઉત્પાદનોને ઉત્તમ બજાર મળી રહે તે માટે આપણે સૌ સહિયારા પ્રયાસો કરીશું.

કાઉન્ડેશનના ગુજરાત

સી.એસ.આર. હેડ પંક્તિબેન શાહે રાજ્યપાલને આભારસહ ખાતરી આપતાં જણાવ્યું કે 'પ્રકૃતિ પ્રત્યેનું ઋશ અદા કરવામાં અદાર્થી પરિવાર ક્યારેય પાછીપાની નહીં કરે. હંમેશાં ખેડૂતોની પડખે રહીને ઉદ્યોગગહના સામાજિક ઉત્તરદાયિત્વને નિભાવશે.'

ખેડૂતોએ ગૌવંશ આધારિત ખેતી મોટે બસીગીર ગોશાળા ખાતે ગોપાલ સુતરિયા પાસેથી પણ માર્ગદર્શન મેળવ્યું હતું. એટલું જ નહીં, દેશ-વિદેશમાં પ્રાકૃતિક ખેતઉત્પાદનોની માંગ વર્ધી રહી છે ત્યારે તેની વેચાણ વ્યવસ્થાને સમજવા અમદાવાદ સ્થિત 'સૃષ્ટિ ઇનોવેશન'ની મુલાકાત પણ લીધી હતી.

અદાણી કાઉન્ડેશન ઢારા હાથ ધરાવેલી પહેલોના પરિશામે થી રાજશક્તિ પ્રાકૃતિક ખેતી સહકારી મંડળીની સ્થાપના કરવામાં આવી હતી. ૩૦ ખેડૂતોથી શરૂ કરાયેલી સંસ્થા આજે ૨૨૫થી વધુ સભ્ય સંખ્યા સાથે પ્રગતિના પંર્થ છે.



अदाणी फाउंडेशन, दहेज द्वारा 'पेड़ों के माध्यम से विकास' ग्रामीण विकास अभियान

फलदार पौधों से आने वाले वर्षों में किसान की आय में वृद्धि होगी



featu view on godin most at men by sigh fee, factoff, all draft sign, विकास अधिकार मूल किया है। १९२३ फालकर, फीर्स, का मीकारल, काब, बारकारी कर्त पर्यक्त के और कारान्य अंश्राम्य, पुरुष्टिया, प्रामार्थी और, चीन, और कारान्य भी हीं, तरंब को जारकपुर समझ हो। या जीका तरंबी में विकास किया। बरावर विकास की नई तर्वब से और लोग बारों के रेडी से शहर जब : फेर्ज को बिलीन बारे का अब अब में बात है उसे after of, paying is one other retorn at week, and written delating and writer, the love sopil and at high a tool, was fount riddeled in में महाने पर्वा और प्रार्थनों को और महत्व को उत्पादन और जिल तत्वार प्रवास है और this site weren the finding

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અદાણી નવચેતન વિદ્યાલય, જુનાગામમાં ફળાઉ છોડ અને શૈક્ષણિક કીટ આપી શાળા પ્રવેશોત્સવ

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ભરૂચના પૂરગ્રસ્ત ત્રણ ગામમાં અદાણી કાઉન્ડેશન દ્વારા રાશનકીટનું વિતરણ

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(1.81 MB) KUTCH PATRIKA 29. અદાણી કાઉન્ડેશન દ્વારા બિદડામાં મધર્સ-ડે ઉજવણી અંતર્ગત

મિલેટ્સની વાનગી બનાવવાની હરીફાઈનું કરાયેલું આયોજન

અદાણી ફાઉ. દ્વારા મુંદ્રામાં પશુધનની સુરક્ષા માટે પશુ આરોગ્ય કેમ્પનું આયોજન ૨૦,૦૦૦ પશુઓને તંદ્વરસ્ત અને નિરોગી રાખવા અનોખી પહેલ

અદાસી કાઉન્ડેશન અને કચ્છ કોયર સિમિટેડના સતયોગથી મુંદામાં પશુ આરોગ્ય કેમ્પનું આયોજન કરવામાં આવ્યું છે. જિલ્લા પંચાયત સંચાલિત પશ દવાખાના દારા પશુઓને સ્ક્રીકરણ તથા ઉપયોગી સાર્રવાર છે. મુંદાના સિરાચા, નગીનાળ, ઝરપરા, પ્રયા, ભૂજપુર, કરવામાં આવી રહી છે. મુંદ્રા તાલુકાના ૨૦,૦૦૦ જેટલા પશુઓને તંદુરાત અને નિરોગી રાખવાના આ પહેલ કરવામાં આવી છે. પશુપાલકોની સવિધા માટે આ કામગીરી તેમને વરઆંગલે જ પૂરી પાડવામાં આવે છે. પશુપતનું આરોગ્ય અને ઉત્પાદકતા જાળવી રાખવા ચિમારી પહેલા જ તેમને રસીકરલ કરવામાં આવે છે. આરોગ્ય કેમ્પમાં કૃષિનાશક દવાઓ, નાના જવો માટે ઉવર્ષિંગ અને વેપી ગર્ભપાતને અટકાવવા અસરકારક કામગીરી કરવામાં આવી રહી છે. જેમાં સ્થાનિકો, પશુપાલકો અને ગ્રામ પંચાયતોનો પુરતો સતયોગ સાંપડી રહ્યો છે. અદાવી કાઉનોશન દારા પશુઓની સારવાર માટે દવાઓ અને વ્યવસ્થા પૂરી પાડવામાં આવી છે. જ્યારે જિલ્લા પંચાયતના પશુપાલન વિભાગના પશુ ડોક્ટર્સ લેવા - આવે છે.

આપી રહ્યા છે. તો કચ્છ કલ્પતરૂ ધોડપુસર કંપની, સરહદ ોરી, સ્થાનિક ગ્રામ પંચાયતો તેમજ ગોવાળ, ગોલેવા સમિતિના સાથ -સહકારથી અદભત કામગીરી ચાલી રહી મોટી ખાખર વચેરે ગામોના ૮૩૦૦ પશુપતને સારવારની કામગીરી પૂર્વ કરાઈ છે, જ્યારે મારીના ગામોમાં આ કામગીરી ચાલ છે. આરોગ્ય કેમ્પની સાથોસાય પશ પોપલ માટે ઉત્તમ વાસચારા એન.બી.-૨૧ નું વાવેતર, મિનરલ મિશ્વર અને ચેપી ચર્ભપાત નિવારશની કામગીરી પથાવત જારી છે. કચ્છમાં ખેતી અને પશુપાલન એ મુખ્ય વ્યવસાય છે. આ પહેલથી તેને મજબૂત બનાવવા માટેના પ્રવાસો થઈ રહ્યા છે. આસી કાર્યન્ટેશન દ્વારા પશુપાલનના મુખ્ય ચાર આધારાતાંભો પશુ સંવર્ષન,પશુ પોપલ, પશુ આરોગ્ય અને પણ વ્યવસ્થાપનને મજબૂત બનાવવા ભરસક પ્રયાસો કરવામાં આવી રહ્યા છે. વળી ખેડતો પ્રાકૃતિક ખેતી તરફ પ્રેસવ તે માટે બેઠકો અને ટ્રેનીંગ દ્વરા માર્ગદર્શન કરવામાં

મોરબીથી બાલાસોર સુધી 'શાનોદધ' અને 'ઉત્થાન'ની ઉદ્યન બાળકોના ભવિષ્યને ઉજવળ બનાવવા અદાશી ફાઉન્ડેશનના ભગીરથ પ્રયાસો hites: | बहेबू बर्च डोर्ड फार करें. व्यानमंत्र कर्त प्रशिक्षण का कोर्जाक राज्य कोर्जाक कोर्ज करिए को पूर्व क्रांच करियां है।

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Annexure – 4



GUJARAT POLLUTION CONTROL BOARD

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

By R.P.A.D.

NO: PC/ CCA- KUTCH-39(8)/ GPCB ID: 17739/74 814 8

Date: -18/07/2023

Correction in Consolidated Consent & Authorization order no AWH-117045 date of issue 09/03/2022 (Under the provisions/rules of Environmental acts)

To.

M/s. Adani Ports & Special Economic Zone Limited,

Plot no. 169/P, At Navinal Island,

Tal: Mundra,

Dist: Kutch - 370 421.

Subject

: Correction of Consolidated Consent and Authorization of this Board.

Reference: 1. This office has issued CCA order no. AWH-117045 issued vide order no. GPCB/CCA-KUTCH-39(7)/ ID-17739/625051 dated 09/03/2022.

2 Your application CTN inward ID 7001067 dated 30/03/2022.

In exercise of the power conferred under section-27 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 & Other Waste (Management &Transboundary Movement) Rules-2016 & as amended framed under the Environmental (Protection) Act-1986 and without reducing your responsibility under the said Acts/Rules in anyway. The Board had granted CCA vide order no. AWH - 117045 issued vide letter no. GPCB/CCA-KUTCH-39(7)/ ID-17739/625051 dated 09/03/2022.

And whereas Board is empowered to amended/ corrected consent order conditions. Accordingly, considering your request for correction in the said CCA order vide CTN inward ID 7001067 dated 30/03/2022, the said CCA order no. AWH-117045 is hereby corrected/ amended as below:

- 1. The condition no. 3.5 of the said order is amended as below:
 - 3.5 The quantity of domestic waste water shall not exceed 263 KL/Day.
- 2. The condition no. 5.2 of the said order is amended as below:
 - 5.2 M/s. Adani Ports & 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 Plot no. 169/P, At Navinal Island, Taluka: Mundra, Dist: Kutch.

Sr. No.	Waste	Quantity per Annum	Schedule &Category	Facility			
1	Used/ Spent Oil	360 MT	I- 5.1	Collection, storage, Transportation, Disposal by selling out to registered recyclers/ reprocessor and/ or reuse within premises.			
2	ETP Sludge	109.5 MT	1-35.3	Collection, storage, Transportation & disposal by sent out for co processing at cement industries			
	Cle	an Gujar	at Green	endjaratwif site.			

Website: https://gpcb.gujarat.gov.in



3	Sludge & filters contaminate d with oil	5 MT	1-3.3	Collection, storage, Transportation, Disposal by co-processing at cement industries and/or CHWIF site			
4	Waste Residue containing Oil/ oily rags	150 MT	I-33.2	Collection, storage, Transportation & disposal by sent out for co processing at cement industries and/ or CHWIF site.			
5	Pig Waste	24 MT	I-3.1	Collection, storage, Transportation, Disposal by co-processing at cement industries and/or CHWIF site			
6	Tank Bottom sludge	Whatever Quantity generated	1-3.2	Collection, storage, Transportation, Disposal by co-processing at cement industries and/or CHWIF site/ or recycling to registered recycler.			
7	Discard containers/ barrels	25 MT	1-33.3	Collection, storage, Transportation Disposal by reuse within premise and / or selling out to register decontamination.			
8	Asbestoses Waste	Whatever Quantity generated	I-15.1	Collection, storage, Transportation, Disposal at CHWIF site.			
9	Glass Wool Waste	Whatever Quantity generated	II/C-9	Collection, storage, Transportation, Disposal by co-processing at cement industries and/or incineration at CHWIF site and / or recycling through registered recycler.			
10	Downgrade Chemical	Whatever Quantity generated	1-20.2	Collection, storage, Transportation, Disposal by reuse within premises and / or selling out to authorized solvent recover.			
11	Waste Oil	1,80,000 MT (0.18 MMTA)	I-5.2	Collection, storage, Transportation,, Disposal by selling out to registered recyclers			
12	Expired Paint Material	10 MT	I-21.1	Collection, storage, Transportation Disposal by co-processing cement industries and/or CHWI site			



GUJARAT POLLUTION CONTROL BOARD



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

 Rest of conditions of CCA order no. AWH—117045 issued vide order no. GPCB/CCA-KUTCH-39(7)/ ID-17739/625051 dated 09/03/2022 shall remain unchanged & industry shall comply with the same judiciously.

For and on behalf of Gujarat Pollution Control Board

> (T.C. Patel) Unit Head

Website: https://gpcb.gujarat.gov.in

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Annexure – 5



Cost of Environmental Protection Measures

Sr.	0 akindan	Cost	Budgeted Cost (INR in Lacs)		
No.	Activity	2021 - 22	2022 - 23	2023 - 24	2023 - 24
_				(till Sep'23)	
1.	Environmental Study / Audit	6.82	7.32	16.19	27
	and Consultancy				
2.	Legal & Statutory Expenses	10.52	12.32	00	13
3.	Environmental Monitoring	14.31	15.32	5.08	19.20
	Services				
4.	Hazardous / Non-Hazardous	107.09	104.035	65.81	148.68
	Waste Management & Disposal				
5.	Environment Days Celebration	4.04	2.53	2.30	11.50
	and Advertisement / Business				
	development				
6.	Treatment and Disposal of Bio-	2.14	2.29	1.14	2.28
	Medical Waste				
7.	Mangrove Plantation,	53.6	35.0	0	15.0
	Monitoring & Conservation				
8.	Other Horticulture Expenses	921	956	628	904
9.	O&M of Sewage Treatment	252.27	141.33	79.73	212.9
	Plant and Effluent Treatment				
	Plant (including STP, ETP of Port				
	& SEZ & Common Effluent				
	Treatment Plant)				
10.	Expenditure of Environment	149.8	90.136	25.228	182.917
	Dept. (Apart from above head)				
	Total	1371.79	1366.28	823.48	1536.48