#### **Bhagwat Swaroop Sharma**

**From:** Bhagwat Swaroop Sharma

**Sent:** Tuesday, May 30, 2023 7:40 PM

**To:** eccompliance-qui@gov.in; iro.gandhingr-mefcc@gov.in

**Cc:** ec-rdw.cpcb@gov.in; ro-gpcb-kute@gujarat.gov.in; ms-gpcb@gujarat.gov.in;

mefcc.ia3@gmail.com; monitoring-ec@nic.in; direnv@gujarat.gov.in; Snehal Jariwala

**Subject:** Half Yearly EC Compliance Report Submission -MPT 1995 (Period : Oct.,2022 to

March.'2023)

Attachments: EC Compliance Report\_MPT 1995\_Oct'22 to Mar'23.pdf



#### APSEZL/EnvCell/2023-24/005

Date:

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 faciling Cargo / LPG /Chemicals and their storage terminal at Navinal Island, Mundra taluka of K Gujarat"

Ref

: Environment and CRZ clearance granted to M/s Adani Ports & SEZ Limited vide letter 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 copy of the compliance report for the Environmental and CRZ Clearance for the period of October 20 2023 is being submitted through soft copy (e-mail communication).

Kindly consider above submission and acknowledge.

Thank you,

Yours Faithfully,

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

Bhagwat Swaroop Sharma Head - Environment Mundra & Tuna Port

Encl: As above

#### Copy to:

 The Director (IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavarar Bagh Road, New Delhi-110003. Thanks & Regards,

Bhagwat Swaroop Sharma Sr. Manager - Environment Mundra & Tuna port

Adani Ports & Special Economic Zone Ltd.

Environment Cell | 1st floor | Adani House | Mundra Kutch | 370421 | Gujarat | India Mob +91 6357231713 | Ext. 52474 | www.adani.com





#### APSEZL/EnvCell/2023-24/005

Date: 25.05.2023

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-gui@gov.in, iro.gandhingr-mefcc@gov.in

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 Adani Ports & SEZ Limited vide letter dated 25<sup>th</sup> 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 that copy of the compliance report for the Environmental and CRZ Clearance for the period of October 2022 to March 2023 is being submitted through soft copy (e-mail communication).

Kindly consider above submission and acknowledge.

Thank you,

Yours Faithfully,

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

Bhagwat Swaroop Sharma Head - Environment Mundra & Tuna Port

Encl: As above

#### Copy to:

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

Adani Ports and Special Economic Zone Ltd Adani House, PO Box No. 1

Mundra, Kutch 370 421 Gujarat, India

CIN: L63090GJ1998PLC034182

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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:

October-2022 to March-2023



From : Oct'22 To : Mar'23

Status of the Conditions Stipulated in Environment and CRZ Clearance

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# EC&CRZ Clearance Compliance Report



From : Oct'22 To : Mar'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 : Oct'22 To : Mar'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 25<sup>th</sup> Aug., 1995.

Sr. No.	Conditions	Compliance Status as on 31-03-2023
2(i)	All construction designs / drawings relating to various project activities should have the approval of the concerned State Government departments / Agencies.	Complied  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 collection, treatment and disposal of liquid wastes including shoreline installation and special hose connections for ships to allow for discharge of sewage must be provided.	Complied  Ships berthing at Mundra Port comply with MARPOL regulations.  No discharge such as bilge wastes, sewage or any other 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-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.
2(iii)	The quality of treated	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.  Complied.
	effluents, solid wastes, emissions and noise levels etc. must confirm to the	ETP is provided to treat the wastewater/wash water. Also the sewage generated from port is being treated in
	standards laid down by the competent authorities	designated ETP. Treated water is used for horticultural purposes. Quality of treated water confirm to the



From : Oct'22 To : Mar'23

Sr. No.	Conditions	Compliance Status as on 31-03-2023						
	including the central and State Pollution Control	standard la	ob bie	wn by	Gujarat	Pollutio	on Con	trol Board.
	Boards under the Environment (Protection) act, 1986 whichever are more stringent.	Location	Сара	city	(Avg. fro	/ater	T	Type of ETP / STP
		LT	265	KLD	10	7 KLD		Activated Sludge
		land for ho achieving p	orticul prescr of ETF e perio	ture point	ourpose voermissibote wat wat mention	within pole limit er anal ed belo	ysis rewww.	g utilized on emises after sults during
		Paramet	er	Unit	Min	Max	Averag	e Perm. Limit <sup>\$</sup>
		рН			6.94	7.48	7.19	6.5 – 8.5
		TSS		mg/L	26	42	33	100
		TDS		mg/L	904	1480	1226	2100
		COD		mg/L	79	86	82	100
		BOD Ammonio Nitrogen as N		mg/L mg/L	18.60	29.80	24.72	50
		emissions by NABL a namely M/s Ltd., Vapi. I reports for 15.32 Lakh activities defined by the permise to Sep'21 withe permise to Sep'21 with the permise septimes.	and no cored so Unis Please or the original so I wast ple are power which so I will be a sible I	oise la lited a star Er e refer perior pent the Frewate alysis ort subshows imit.	evels are and MoEnvironment Annexud Oct'22 for all ey 2022-2	er, trea e being F&CC ( ent and ore - 1 fo 2 to Ma environa 23 for o ing reg ing and was su for the parame	regula recogni Resear or deta ar'23. A mental verall A ular situ d analys bmitter durati ters are	fluents, air rly analyzed ized agency ch Labs Pvt. iled analysis Approx. INR monitoring APSEZ.  e inspection sis. The last d as part of on of Apr'21 e well within  5R concept



From : Oct'22 To : Mar'23

Sr. No.	Conditions	Compliance Status as on 31-03-2023
		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.
		<ul> <li>Hazardous &amp; Other Waste:</li> <li>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.</li> <li>E - Waste &amp; Used Batteries are being sold to GPCB registered recyclers namely M/s. Galaxy Recycling, Rajkot and Sabnam Enterprise, Kutch respectively.</li> <li>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 &amp; Aroma Petrochem - Bhavnagar.</li> </ul>



From : Oct'22 To : Mar'23

Sr. No.	Conditions	Compliance Status as on 31-03-2023
		<ul> <li>It is also being reused within organization for lubrication purpose.</li> <li>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.</li> <li>Solid hazardous waste i.e. Tank bottom sludge is being sold to authorized recycler namely M/s. Mundra Oil Pvt. Ltd., Mundra for recycling.</li> <li>Expired paint materials are being disposed by incineration through common facility i.e. M/s. Saurashtra Enviro Projects Pvt. Ltd., Bhachau.</li> <li>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.</li> <li>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 &amp; Aroma Petrochem - Bhavnagar and water is sent to ETP for further treatment. However, during the compliance period i.e. Oct'22 to Mar'23, there was no received or disposal of Slope Oil.</li> <li>Horticulture waste is collected from various green belt areas and it is using for making of manure and manure is being utilizing in horticulture purpose within plant premises.</li> </ul>
		Details of permissions / agreements of hazardous waste authorized vendors were submitted along with pervious half yearly EC Compliance Reports. And there is no further change.  The following table summarizes the waste management
		practice (from Oct'22 to Mar'23) for different types of wastes at APSEZ:  Type of Waste  Quantity in Disposal method
		Hazardous Waste
		Pig Waste 7.12



From : Oct'22 To : Mar'23

Sr. No.	Co	nditions		Compliance Status as on 31-03-2023				
			Oily Cotton	waste	64.5		o-processing ndustries	at cement
			Used / Spen	t Oil	57.0		ell to registe	red recycler
			Other Wast		•	•		,
			Bio Medical	Waste	3.3	8 T	o approved C	BWTF Site
			E-Waste		31.3	57 S	ell to registe	r recycler
			Non-Hazard	ous Was	te			
			Recyclables Waste / Scra	•	1413.	.91 r	fter recover ecycling / Re remises	euse within
			Non-Recycla Waste (RDF	)	230.	U II	o-processing ndustries	
			Wet Waste ( waste + Org waste)	•	465.	86   F	converted to lorticulture u or cooking pu	ise / Biogas
			Horticulture	e Waste	385	.7 n	lsed for r nanure and orticulture p	
			standard la same for c below.		•			- ,
			Total Ambi	ent Air	& Noise	Samplin		
			Parameter	ent Air	& Noise	Samplin <sub>Max</sub>		
			Parameter AAQM	Unit	Min	Max	g Location Average	s: 4 Nos.  Perm. Limit <sup>s</sup>
			Parameter  AAQM PM <sub>10</sub>	Unit µg/m³	<b>Min</b> 62.18	<b>Max</b>	Average	S: 4 NOS.  Perm. Limit <sup>s</sup>
			Parameter  AAQM PM10 PM2.5	Unit  µg/m³  µg/m³	Min 62.18 21.25	<b>Max</b> 89.79 49.12	Average  80.06 35.29	S: 4 NOS.  Perm. Limit <sup>s</sup> 100 60
			Parameter  AAQM PM <sub>10</sub>	Unit µg/m³	<b>Min</b> 62.18	<b>Max</b>	Average	S: 4 NOS.  Perm. Limit <sup>s</sup>
			Parameter  AAQM  PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub>	<b>Unit</b> μg/m³ μg/m³ μg/m³	62.18 21.25 11.24 16.78 <b>Leq Min</b>	Max 89.79 49.12 36.28	80.06 35.29 25.71	S: 4 NOS.  Perm. Limit <sup>s</sup> 100 60 80
			Parameter  AAQM  PM10  PM2.5  SO2  NO2  Noise  Day Time	unit  pg/m³ pg/m³ pg/m³ pg/m³ pg/m³ dB(A)	62.18 21.25 11.24 16.78 <b>Leq Min</b> 58.20	Max  89.79 49.12 36.28 43.65  Leq Max 69.80	80.06 35.29 25.71 33.20 Leq Avg.	\$: 4 NOS.    Perm.     Limit <sup>\$</sup>     100     60     80     80     Leq Perm.     Limit*     75
			Parameter  AAQM  PM10  PM2.5  SO2  NO2  Noise	Unit  μg/m³ μg/m³ μg/m³ μg/m³	62.18 21.25 11.24 16.78 <b>Leq Min</b>	89.79 49.12 36.28 43.65 <b>Leq Max</b>	80.06 35.29 25.71 33.20 Leq Avg.	\$: 4 NOS.    Perm.     Limit <sup>\$</sup>     100     60     80     80     Leq Perm.     Limit*
			Parameter  AAQM  PM10  PM2.5  SO2  NO2  Noise  Day Time	Unit  μg/m³ μg/m³ μg/m³ μg/m³  Unit  dB(A) dB(A)	62.18 21.25 11.24 16.78 <b>Leq Min</b> 58.20 54.20	Max  89.79 49.12 36.28 43.65  Leq Max 69.80 64.50	80.06 35.29 25.71 33.20 Leq Avg. 64.75 59.93	\$: 4 NOS.    Perm.     Limit <sup>\$</sup>     100     60     80     80     Leq Perm.     Limit*     75     70     andards, 2009     anted by SPCB
			Parameter  AAQM  PM10  PM2.5  SO2  NO2  Noise  Day Time  Night Time	unit  pg/m³ pg/m³ pg/m³ pg/m³ pg/m³ pg/m³ dB(A) dB(A)	62.18 21.25 11.24 16.78 Leq Min 58.20 54.20	Max  89.79 49.12 36.28 43.65  Leq Max 69.80 64.50  \$ a a a a a a a a a a a a a a a a a a	80.06 35.29 25.71 33.20 Leq Avg. 64.75 59.93 s per NAAQ stas per CC&A gras to the stipula	S: 4 NOS.  Perm. Limit <sup>s</sup> 100 60 80 80 Leq Perm. Limit* 75 70 andards, 2009 anted by SPCB ted standards.
			Parameter  AAQM  PM10  PM2.5  SO2  NO2  Noise  Day Time Night Time	Unit    µg/m³   µg/m³   µg/m³   µg/m³   Unit   dB(A)   dB(A)	Min  62.18 21.25 11.24 16.78  Leq Min 58.20 54.20  calues record exure - 1	Max  89.79 49.12 36.28 43.65  Leq Max 69.80 64.50  s a ed confirms  for deta en'23. Ap	80.06 35.29 25.71 33.20 Leq Avg. 64.75 59.93 s per NAAQ stase per CC&A grasto the stipulation of the stipulation of the stipulation. INR	s: 4 Nos.  Perm. Limit <sup>s</sup> 100 60 80 80 Leq Perm. Limit* 75 70  andards, 2009 ented by SPCB ted standards. sis reports 15.32 Lakh
2(iv)		provision for	Parameter  AAQM  PM10  PM2.5  SO2  NO2  Noise  Day Time  Night Time  Please reference for the perious spent of during the	Unit    µg/m³   µg/m³   µg/m³   µg/m³   Unit   dB(A)   dB(A)	Min  62.18 21.25 11.24 16.78  Leq Min 58.20 54.20  Falues record EXURE - 1 22 to Mia	Max  89.79 49.12 36.28 43.65  Leq Max 69.80 64.50  s a confirms for deta	80.06 35.29 25.71 33.20 Leq Avg. 64.75 59.93 s per NAAQ stase per CC&A grase to the stipulation prox. INR formulation in grown in the control of the control	s: 4 Nos.  Perm. Limit <sup>s</sup> 100 60 80 80 Leq Perm. Limit* 75 70  andards, 2009 ented by SPCB ted standards. sis reports 15.32 Lakh



From : Oct'22 To : Mar'23

Sr. No.	Conditions	Compliance Status as on 31-03-2023
	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.	Construction activity is already completed. Adequate infrastructure facility was provided to labours during construction phase and those are in existence.  The facility for drinking water, toilet and rest shelter are provided for the dignity of operation labours. Photographs of the same were submitted along with the compliance report submission for the period Oct'16 to Mar'17.
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.	Complied. Construction phase is completed.  For operation phase, following noise control measures are taken:  • All DG sets are installed with acoustic enclosure confirming EPA norms.  • Proper maintenance of equipments / plant machineries is being done on regular basis.  • Green Belt has been developed at road sides and operational areas.  • Traffic control measures such as signage, speed regulation, traffic guides etc. are in place to reduce the unnecessary honking by cargo vehicles.
2(vi)	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



From : Oct'22 To : Mar'23

Sr. No.	Conditions	Compliance Status as on 31-03-2023							
		Marine	monit	oring (S	Surface	, Botto	om and	Sedim	ent) is
		being ca	rried	out ond	ce in a	month	by NA	BL acc	redited
		and Mo	EF&C0	C appro	ved a	gency	namely	M/s.	Unistar
		Environr	nent a	nd Res	earch L	abs PvI	t. Ltd., \	/api. Su	ımmary
		of the	same	for du	ration	from	Oct'22	to Ma	r'23 is
		mention	ed be	low. Mo	onitorir	ng Rep	orts are	e attac	hed as
		Annexur	e – 1 f	for the	same.				
		Total Sampling Locations: 09 Nos.							
		Paramet	Unit	00:-	Surface	0	00:-	Bottom	A
		er pH		<b>Min</b> 7.96	<b>Max</b> 8.28	<b>Avg.</b> 8.17	<b>Min</b> 7.68	<b>Max</b> 8.14	<b>Avg.</b> 8.02
		BOD (3		7.50	0.20	0.17	BDL(M	BDL(M	BDL(M
		Days @ 27 °C)	mg/L	2.4	3.4	2.92	DL:1.0	DL:1.0	DL:1.0
		TSS	mg/L	86	162	129.76	78	148	110.48
		DO Salinity	mg/L ppt	5.8 35.02	6.32 36.82	6.08 35.71	5.63 35.56	6.22 37.02	5.91 36.24
		TDS	mg/L	35108	37210	35902	35614	37840	36425
									tion Limit
						*MD	L – Minim	um Detec	tion Limit
		Ground N There are ground N location of the ground NABL are namely Private L of Oct'22	re no water in the round accred M/s. I imited	sludge quality, e port a water i ited a Jnistar d., Vapi. ar'23 is	lagoor bore v and SE2 s being nd Mo Enviro Summ mentio	vells ar Z areas g carrie DEF&C( onment lary of t	e provion the province of the	ded at y party a wice a y oved esearc	various inalysis year by agency h Labs
			aramet		Unit	MIN	MAX	AVE	RAGE
		pH @ 25	5°C			7.98	8.01	8.	00
		Salinity			ppt	1.02	7.17	4.	10
		Oil & Gr	ease		mg/L	*BDI	- *BDL	. *B	DL
		Hydroca	arbon		mg/L		ND*	N	D*
		Lead as			mg/L		- *BDL	. *B	DL
		Arsenic			mg/L		- *BDL	. *B	DL
		Nickel a	s Ni		mg/L	0.02	0.13	0.	07
		Total Cl	hromiur	m as Cr	mg/L	*BDI	- *BDL	. *B	DL
		Cadmiu	m as Co	t	mg/L	0.09	0.09	0.	09
		Mercur	y as Hg		mg/L	*BDI	- *BDL	. *B	DL
		Zinc as	Zn		mg/L	0.05			05
		Copper	as Cu		mg/L	*BDI	- *BDL	. *B	DL



From : Oct'22 To : Mar'23

Sr. No.	Conditions	·	iance St 31-03-2		s on	
		Iron as Fe	mg/L	0.34	0.34	0.34
		Insecticides/Pesticides	μg/L	ND*	ND*	ND*
		Depth of Water Level from Ground Level	meter	2.00	2.15	2.08
				*B[		Not Detectable v Detection Limit
		Please refer <b>Annexure</b> Approx. INR 15.32 Lal monitoring activities of FY 2022-23 for overall	kh is sp during t	ent fo the con	r all er nplianc	vironmental
2(vii)	Adequate culverts should be	Complied.				
	provided for smaller creeks so that breeding grounds for crabs, mud snappers and other marine organisms are not cut off by road construction activities.	Adequate culverts ar system named as (1) K Bocha (5) Mundra (Old Bhukhi river).	otdi (2)	Baradir	nata (3	) Navinal (4)
		All above creeks are i water and there is no area. APSEZL has so f total length of approx. Crores. Apart from th constructed over Kotd and cost of INR 10 Crors submitted as part of the duration of Apr'17	filling of ar const . 1100 m at three i creek v res. Pho complia	r reclar tructed n with t e RCC with to tograpl nce rep	nation 19 cul otal co Bridge: tal leng ns of th	of any creek verts having st of INR 20 s have been oth of 230 m e same were
2(viii)	A hundred meter wide 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 provided all along the	Complied.  24 hectare of Mangrowith a cost of INR 25.0  Mangrove plantations  Maity, Mangrove const	ove affo O Lac at were do ultant o	restation west of one in confine f	of Navir onsulta	nal creek. All Ition with Dr.
	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 develowere planted with the within the port area. Sha. area as greenbelt Lacs saplings within the	density o, far AF with pla	of 206 PSEZ ha ntation	O trees as deve of mo	per hectare loped 457.99
	worked out in consultation with the State Forest Department, and details sent to the Ministry.	To enhance the marin carried out mangrove across the coast of G same till date is INR 10	e affore: Sujarat.	station Total e	in 38	90 ha. area



From : Oct'22 To : Mar'23

Sr. No.	Conditions	Compliance Status as on 31-03-2023
		Details on Mangroves afforestation & Green belt development carried out by APSEZ till date is annexed as <b>Annexure - 2</b> .
		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, 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.
		Please refer attached <b>Annexure - 3</b> for CSR activity report carried out by Adani Foundation.
2(ix)	Arrangements should be made for ensuring fresh	Complied.
	water availability for various project related activities.	During the project phase, GWIL was the source of water to ensure freshwater availability.
	Special water harvesting 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 4.52 MLD during compliance period i.e. Oct'22 to Mar'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 2022-23 approx. 5.56 ML of rainwater has been recharged to increase the ground water table.



From : Oct'22 To : Mar'23

Sr. No.	Conditions	Compliance Status as on 31-03-2023
		We have also connected roof top rainwater duct of operational building (Tug berth building within MPT) with u/g water tank for utilization of collected rainwater for gardening / horticulture purpose. Details of the same were submitted along with EC Compliance report for the period Oct'18 to Mar'19.
		However, Adani Foundation – CSR arm of Adani Group has carried out rainwater harvesting activities in the nearby villages for benefit of the locals.
		Water conservation Projects i.e. Roof Top 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.
		Our water conservation work is as below.  • Large number of water harvesting structure (18 Nos. of check dams in coordination with salinity department) and Augmentation of 3 nos. check dams.Ground recharge activities (pond deepening work for 61 ponds) individually and 26 ponds under Sujlam Suflam Jal Abhiyan were built leading to a significant increase in water table and higher
		<ul> <li>returns to the farmers.</li> <li>New Pond Deepening Under Ajadi ka Amrut Mahotsav done in Goyarsama village Approx Deepening Capacity is 12000 Cum.</li> </ul>
		<ul> <li>Roof Top Rainwater Harvesting 145 Nos. (40 Nos. current FY 2022-23) which is having 10,000 litre storage which is sufficient for one year drinking water purpose for 5 people family.</li> </ul>
		<ul> <li>Recharge Borewell 208 Nos (19 Nos. current FY 2022-23) which is best ever option to direct recharge the soil.</li> </ul>



From : Oct'22 To : Mar'23

Sr. No.	Conditions	Compliance Status as on 31-03-2023
		<ul> <li>Drip Irrigation approx. 1505 Farmers benefitted in coordination with Gujrat Green Revolution Company till date.</li> <li>Bund construction on way of Nagmati River could save more than 575 MCFT water quantity which recharged in ground due to which borewell depth decreased by 50-100 Ft in Zarpara, Bhujpur and Navinal Vadi Vistar.</li> <li>Pond Pipeline work at Prasla Vistar Zarpara which increase recharge capacity more than 25% in 100 hector area.</li> <li>Check dam gate valve construction at Bhujpur which controlled more than 350 MCFT water to go into sea and get recharged current year.</li> <li>With the objective of to preserve the rainwater to reduce</li> </ul>
		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 <b>Annexure – 3</b> for full details of CSR activities carried out by Adani Foundation in the Kutch region. Budget for CSR Activity for the FY 2022-23 is to the tune of INR 1894.42 lakh. Out of which, Approx. INR 1527.49 lakh is spent in FY 2022-23.
2(x)	While filling the storage	Complied.
	tanks, compatibility of the chemicals should be ensured for chemical safety. Since 5000 MT capacity is proposed to be created for cryogenic conditions,	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.
	necessary HAZOP study 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 iFluids Engineering for handling and storage of LPG in three 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.	Recommendations of the risk assessment have been implemented as part of the construction activity and



From : Oct'22 To : Mar'23

Sr. No.	Conditions		С	ompliance St 31-03-2		
		complete reconsubn	pliance repor ementation mmendation	rt for the peri report s during o with half yea	itted along with od Oct'18 to M of risk a perational ac arly compliance	ar'19. assessment tivity 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.	Cons GPCI Nove subm for the Cons are of time	B vide consember, 2026 itted along the period Ocsent to Estaboto to time as p	sent no. AW 6. The copy with last half t'21 to Mar'22 lish (CtE) and on GPCB and per the progre	has been rend VH-117045 validy of CtO rend f yearly complicated Consent to Oped renewed/amedes are mentioned	d till 20 <sup>th</sup> newal was ance report erate (CtO) ended from ect activity.
		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
		subn subn subn	nitted along nission. The nitted along	g with ear	above (Sr. N rlier complian CtO renewal f yearly complia 2.	ce report order was
2(xii)	For ensuring the acceptance of the project by the local people, a Resolution of the		plied. Ilution from	the Panchay	at has been ob	tained and
	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.	Clim	ate Change d	e Ministry o on 31 <sup>st</sup> July, 2	f Environment 012.	, Forest &
2(xiii)	A permanent staff structure should be created with latest R&D facilities and suitable equipments for		plied. EZ has a well staffed		Environment Malified manpo	-



From : Oct'22 To : Mar'23

	Compliance Status as on
Conditions	31-03-2023
environmental and forestry activities through creation of Environmental cell. Adequate funds should be earmarked for this cell.	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 2022-23 is to the tune of INR 1448.06 lakh. Out of which, Approx. INR 1366.28 lakhs are spent during the year FY 2022-23. Detailed breakup of the expenditures for the past 3 years is attached as <b>Annexure – 4</b> .
Landsat imagery should be	Complied.
basis covering various seasons to study the change in the land use pattern due to the project and project	Project is in operation phase since many years and there is no change in the land use pattern.
	Complied.
adequate job opportunities to local people, facilities for technical training and development of skills should be made available in	Adani Foundation – CSR Arm of Adani Group is doing following activities as a part of Skill Development in surrounding communities in Kutch area.
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.	<ul> <li>Adani Skill Development Center (ASDC), Mundra &amp; Bhuj is providing skill development training to the locals for Soft Skill, Technical Training and Carrier Guidance &amp; knowledge-based training.</li> <li>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.</li> <li>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.</li> </ul>
	environmental and forestry activities through creation of Environmental cell. Adequate funds should be earmarked for this cell.  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.  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



From : Oct'22 To : Mar'23

Sr. No.	Conditions	Compliance Status as on 31-03-2023
		<ul> <li>ASDC imparted various soft skilled and technical training to make Atma Nirbhar India.</li> <li>During FY 2022-23, Total 4706 people trained in various trainings to enhance socio economic development.</li> <li>Preference is given to local people for employment based on their qualification and experience.</li> <li>All Mangrove plantations are done in consultation with GUIDE and Local Forest dept.</li> <li>24 hectare of mangrove afforestation at Mundra was done through active participation of local fishermen at the cost of INR 25.0 Lac.</li> <li>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 5200 Men days' work provide to 285 Fisherfolk of Luni, Sekhdiya and Bhadreshwar Villages in coordination with Horticulture Department.</li> <li>Details on skill development training imparted during compliance period i.e. Oct'22 to Mar'23 by Adani Foundation are available in CSR report enclosed as Annexure - 3.</li> </ul>
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.



From : Oct'22 To : Mar'23

Sr. No.	Conditions		Compliance State 31-03-202	
		and last re	newed vide license no o 31.12.2023. Same	taken dated 07.10.1998 b. 0017 on 17.05.2019 is details is attached as
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.	regularly. I of monitor submitted Gandhinag Gandhinag the same https://ww copy of the 30.11.2022	Previous compliance of ing data for the period to Integrated Reg ar, Zonal Office of CF ar & Gandhidham and ar vide our letter date is also available w.adaniports.com /poesame was also submet to all the concern a the details regardin	onditions is uploaded report including results of Apr'22 to Sep'22 was ional Office (IRO) @ PCB @ Baroda, GPCB @ Dept. of Forests & Env., red 21.11.2022. Copy of e on our web site orts-downloads. A soft aitted through e-mail on uthorities. Please referg past six compliance
		Sr. No.	Compliance period	Date of submission
		1	Oct'19 to Mar'20	20.05.2020
		2	Apr'20 to Sep'20	26.11.2020
		3	Oct'20 to Mar'21	25.05.2021
		4	Apr'21 to Sep'21	30.11.2021
		5	Oct'21 to Mar'22	30.05.2022
		6	Apr'22 to Sep'22	30.11.2022
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.	measures i recorded organization	s earmarked every ye in advanced accou on. Details rega	nvironment protection ar. All the expenses are nting system of the rding environmental nce condition no. 2(xiii)

# 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: October - 2022 to March - 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 OCTOBER-2022 **NOVEMBER-2022 DECEMBER-2022** JANUARY-2023 FEBRUARY-2023 MARCH-2023 **TEST METHOD** NO. **PARAMETERS BOTTOM** SURFACE SURFACE BOTTOM SURFACE BOTTOM SURFACE BOTTOM SURFACE BOTTOM SURFACE BOTTOM 8.02 8.06 8.17 8.02 8.14 7.98 8.16 8.02 8.28 7.94 IS 3025 1. Нα 8.12 8.14 (Part11)1983 °C 30.2 29.9 29.8 29.7 29.7 29.6 29.8 29.7 29.9 IS 3025 2. Temperature 30.3 30 30 (Part 9)1984 3. Total mg/L 146 126 138 122 126 114 146 118 104 94 144 112 APHA 23rd Suspended Ed.,2017,2540- D Solids 4. BOD mg/L 2.9 BDL 2.8 **BDL** 2.9 **BDL** 2.8 **BDL** 2.9 BDL 3.1 **BDL** IS 3025(Part 44)1993Amd.01 (3 Days @ 27°C) APHA 23rd 5. Dissolved mg/L 6.22 6.02 6.1 5.9 6.2 6 6.2 5.99 6.09 5.88 6.13 5.83 Oxygen Ed.,2017,4500-O, B 6. Salinity ppt 35.36 35.88 35.32 36.12 36.02 36.44 35.86 36.12 35.46 36.11 36.12 36.84 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 APHA 23rd Ed.. 8. umol/L 2.33 2.24 2.93 2.76 3.45 3.02 2.93 2.76 2.67 2.76 3.45 2.8 Nitrate as NO<sub>2</sub> 2017.4500 NO3-B 9. umol/L 0.379 0.362 0.3 0.235 0.302 0.276 0.3 0.235 0.198 0.379 0.345 0.276 APHA 23rd Nitrite as NO<sub>2</sub> Ed.,2017,4500NO<sub>2</sub>B 10. **Ammonical** µmol/L 3.4 3.36 2.54 2.45 3.19 2.84 2.54 2.45 2.24 2.32 3.28 3.1 APHA 23rd Ed., 2017.4500- NH3 B Nitrogen as NH<sub>3</sub> μmol/L 11. Phosphates as BDL BDL **BDL** BDL **BDL BDL** 0.47 **BDL** 0.65 0.47 0.78 0.6 APHA 23rd PO<sub>4</sub> Ed.,2017,4500-P, D **Total Nitrogen** umol/L 12. 6.109 5.962 5.77 5.445 6.942 6.136 5.77 5.445 5.108 5.459 7.075 6.176 APHA 23rd Ed., 2017,4500 NH3 - B 13. Petroleum μg/L N.D. APHA 23rd Hydrocarbon ED,2017,5520 F 14. **Total Dissolved** mg/L 35912 36114 35864 36108 36086 36474 35864 36410 35108 35686 36640 37400 APHA 23rd Ed.,2017, Solids 2540- C COD 32.13 24.12 24.19 APHA 23rd Ed., 2017, 15. mg/L 36.07 28.06 16.62 12.47 24.1 32.16 24.12 28.2 12.08 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	Oct	-22	Nov-	-22	Dec-	22	Jan-2	.3	Feb-2	3	Mar-	23	TEST METHOD
			SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α								Phytoplank	cton						
1.	Chlorophyll	mg/m³	2.4	2.36	2.51	3.25	3.21	2.56	3.15	2.51	2.8	3.14	2.45	3.24	APHA (23rd Ed. 2017)10200 H
2.	Phaeophytin	mg/m³	1.02	1.23	0.98	2.1	1.3	1.65	1.11	1.6	1.23	2.11	0.96	1.36	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	90	78	140	87	152	120	162	118	128	129	142	142	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Odentella	Diploneis	Nitzschia	Navicula	Pinnularia	Grammat ophora	Pinnularia	Grammat ophora	Diploneis	Rhizosolen ia	Navicula	Nitzschia	APHA (23rd Ed. 2017)10200 F
	Number and name of		Cyclotella	Rhizosolen ia	Pinnularia	Cyclotella	Surirella	Rhizosolen ia	Surirella	Rhizosolen ia	Rhizosolen ia	Pinnularia	Cyclotella	Pinnularia	,
	group species		Pinnularia	Nitzschia	Odontella	Pinnularia	Odentella	Nitzschia	Odentella	Nitzschia	Nitzschia	Thalassiot hrix	Pinnularia	Odontella	
	of each group		Biddulphia	Thalassiot hrix	Dinophysis	Skeletone ma	Grammat ophora	Thallassio sira	Grammat ophora	Thallassio sira	Cyclotella	Grammat ophora	Skeletone ma	Dinophysis	
			Thallassio sira	Pleurosig ma	Surirella	Thallassio sira	Melosira	Pleurosig ma	Melosira	Pleurosig ma	Pleurosig ma	Ceratium	Thallassio sira	Surirella	

В					Zoop	olankton			
1	Abudance(Po pulation)	noX103/ 100 m3	52	69	87	92	69	53	APHA (23rd Ed. 2017)10200 G
2	Name of		Copepods nauplii	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Copepods nauplii	
	Group		Crustacean Larvae	Copepods nauplii	Copepods nauplii	Copepods nauplii	Copepods nauplii	Crustacean Larvae	
	Number and		Oikoplura	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	Oikoplura	
	name of		Bivalve Larvae	Crustacean	Crustacean	Crustacean	Crustacean	Bivalve Larvae	
	group species of each group		Oikoplura	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Oikoplura	
3	Total Biomass	ml/100 m <sup>3</sup>	15.36	14.35	15.74	15.74	16.32	16.33	

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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	Oct-2	22	Nov-22	2	Dec-2	2	Jan-2	!3	Feb-	23	Mar	-23	
NO.	PARAMET ERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	TEST METHOD
С								Microbiolog	ical						
1	Total Bacterial Count	CFU/ml	21	10	14	10	15	52	1!	50	1	68	14	48	APHA 23 <sup>rd</sup> Ed.2017,9215-C
2	Total Coliform	/100ml	3	2	5	8	4	4	4	2	4	0	4	1	APHA 23 <sup>rd</sup> Ed.2017,9222-B
3	Ecoli	/100ml	1	.4	3	2	2	3	2	2	2	.0	3	5	IS:15185:2016
4	Enterococ cus	/100ml	1	.2	2	0	1	2	1	4	1	.1	2	0	IS:15186:2002
5	Salmonell a	/100ml	Abs	sent	Abs	ent	Abs	ent	Abs	sent	Abs	sent	Abs	ent	IS:15187:2016
6	Shigella	/100ml	Abs	sent	Abs	ent	Abs	ent	Abs	ent	Abs	ent	Abs	ent	APHA 23 <sup>rd</sup> Ed.2017,9260-E
7	Vibrio	/100ml	Abs	sent	Abs	ent	Abs	ent	Abs	sent	Abs	sent	Abs	sent	IS: 5887 (Part V):1976

Estel

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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	OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.59	0.62	0.52	0.48	0.52	0.56	IS: 2720 (Part 22):1972 RA.2015, Amds.1
2.	Phosphorus as P	μg/g	534.2	542.4	590.2	520.4	562.2	548.6	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	%	3.52	3.64	3.82	3.88	3.97	3.86	IS3025(Part 55)2003
5.2	Total Chromium as Cr+3	μg/g	102.4	111.2	118.4	126.7	142.2	124.2	EPA 3050B/7190 (Extraction &Analytical Method): 1986
5.3	Manganese as Mn	μg/g	592.5	582.4	610.2	580.4	590.2	602.2	EPA 3050B/7460 (Extraction &Analytical Method): 1986
5.4	Iron as Fe	%	4.21	4.26	4.31	4.21	3.88	3.94	EPA 3050B/7380 (Extraction &Analytical Method): 1986
5.5	Nickel as Ni	μg/g	54.23	55.34	49.82	44.46	52.24	52.22	EPA 3050B/7520 (Extraction &Analytical Method): 1986
5.6	Copper as Cu	μg/g	42.59	44.64	38.25	42.42	40.15	44.36	EPA 3050B /7210 (Extraction &Analytical Method):1986
5.7	Zinc as Zn	μg/g	88.54	84.26	94.21	90.2	82.9	104.2	EPA 3050B/7950 (Extraction &Analytical Method): 1986
5.8	Lead as Pb	μg/g	2.84	2.82	2.54	2.62	2.86	2.36	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	OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D					Benth	ic Organisms			
1	Macrobenthos		Isopods	Isopods	Amphipods	Amphipods	Amphipods	Isopods	APHA (23rd Ed. 2017)10500
			Polychates	Polychates	Sipunculids	Sipunculids	Sipunculids	Polychates	С
			Sipunculids	Sipunculids	Isopods	Isopods	Isopods	Sipunculids	
			Amphipods	Amphipods	Gastropods	Gastropods	Gastropods	Amphipods	
2	MeioBenthos		Polychates	Polychates	Decapods Larvae	Decapods Larvae	Polychates	Polychates	
			Foraminiferan	Foraminiferan	Herpectacoids	Herpectacoids	Herpectacoids	Foraminiferan	
3	Population	no/m²	312	300	245	242	263	236	

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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	ОСТОВ	ER-2022	NOVEME	BER-2022	DECEME	BER-2022	JANUAF	RY-2023	FEBRUA	RY-2023	MARC	H-2023	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
1.	рН		8.18	8.11	8.16	8.04	8.21	8.09	8.18	8.11	8.22	8.14	8.06	7.72	IS 3025 (Part11)1983
2.	Temperature	°C	30.2	30	30.1	30	29.7	29.6	29.7	29.6	29.8	29.7	30	29.8	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	132	108	128	112	134	114	154	124	148	118	160	134	APHA 23 <sup>rd</sup> Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3	BDL	3.1	BDL	3	BDL	3.1	BDL	3	BDL	2.8	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.12	5.92	6	5.8	5.9	5.8	6.1	5.89	6.19	5.99	5.93	5.73	APHA 23 <sup>rd</sup> Ed.,2017,4500-O, B
6.	Salinity	ppt	35.34	35.92	36.14	36.58	35.98	36.51	35.46	36.24	35.52	36.14	36.18	36.9	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	2.54	2.5	3.45	2.76	3.23	2.59	3.45	2.76	2.93	2.67	2.16	2.59	APHA 23 <sup>rd</sup> Ed., 2017,4500 NO3-B
9.	Nitrite as NO <sub>2</sub>	μmol/L	0.431	0.414	0.431	0.345	0.413	0.379	0.431	0.345	0.241	0.198	0.189	0.241	APHA 23 <sup>rd</sup> Ed.,2017,4500NO <sub>2</sub> B
10.	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	3.53	3.4	2.84	2.49	3.66	2.93	2.84	2.49	2.41	2.24	3.84	3.36	APHA 23 <sup>rd</sup> Ed., 2017,4500- NH3 B
11.	Phosphates as PO <sub>4</sub>	μmol/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6	BDL	BDL	BDL	APHA 23 <sup>rd</sup> Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.501	6.314	6.721	5.595	7.303	5.899	6.721	5.595	5.581	5.108	6.189	6.191	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> ED,2017,5520 F
14.	Total Dissolved Solids	mg/L	35844	36452	35746	36312	35988	36370	35280	35860	35188	35722	35940	36500	APHA 23 <sup>rd</sup> Ed.,2017, 2540- C
15.	COD	mg/L	32.06	24.05	24.94	20.78	28.11	20.08	36.18	28.14	24.19	12.1	32.22	16.11	APHA 23 <sup>rd</sup> 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	ОСТОВІ	ER-2022	NOVEME	BER-2022	DECEMB	ER-2022	JANUAI	RY-2023	FEBRUA	RY-2023	MARC	H-2023	TEST METHOD
NO.	PARAMETE		SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	SURFAC	вотто	
	RS		E	М	E	М	E	M	E	М	E	M	E	М	
Α								Phyto	plankton						
1.	Chlorophyll	mg/m³	2.95	2.05	3.12	3.62	2.63	2.87	3.01	3.01	3.21	2.45	2.96	2.78	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	0.9	0.87	0.87	0.65	0.96	1.47	0.86	1.5	1.65	1.29	1.36	2.01	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	100	102	105	98	125	114	132	116	147	98	123	112	APHA (23rd Ed. 2017)10200 F
4	Name of		Diplonei	Pinnulari	Odentell	Surirella	Nitzschi	Coscinod	Nitzschi	Coscinod	Ceratiu	Diplonei	Surirella	Odentell	APHA (23rd Ed.
	Group		5	а	а		а	iscus	а	iscus	m	S		а	2017)10200 F
	Number		Rhizosol	Surirella	Rhizosol	Rhizosol	Pinnulari	Diplonei	Pinnulari	Diplonei	Coscinod	Rhizosol	Rhizosol	Rhizosol	
	and name		enia		enia	enia	а	S	а	S	iscus	enia	enia	enia	
	of group		Nitzschi	Navicula	Coscinod	Nitzschi	Odontell	Rhizosol	Odontell	Rhizosol	Odentell	Nitzschi	Nitzschi	Coscinod	
	species of		а		iscus	а	а	enia	а	enia	а	а	а	iscus	
	each group		Cyclotell	Thallassi	Gramma	Thalassi	Dinophy	Dinophy	Dinophy	Dinophy	Gramma	Thalassi	Thalassi	Gramma	
			а	osira	tophora	onema	sis	sis	sis	sis	tophora	othrix	onema	tophora	
			Pleurosi	Skeleton	Thallassi	Pleurosi	Surirella	Thalassi	Surirella	Thalassi	Melosira	Pleurosi	Pleurosi	Thallassi	
			gma	ema	osira	gma		onema		onema		gma	gma	osira	

В					Zoo <sub>l</sub>	olankton			
1	Abudance( Population )	noX103 / 100 m3	47	58	69	72	88	90	APHA (23rd Ed. 2017)10200 G
2	Name of		Copepods	Decapoda	Decapoda	Decapoda	Decapoda	Copepods	
	Group		Oikoplura	Copepods	Copepods	Copepods	Copepods	Oikoplura	
	Number		Crustacean Larvae						
	and name		Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	
	of group species of each group		Bivalve Larvae	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Bivalve Larvae	
3	Total Biomass	ml/100 m <sup>3</sup>	14.89	15.98	17.69	17.69	18.52	17.44	

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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	OCTOBER-	2022	NOVEMBER-2022	DECE	MBER-2022	JANUARY-	2023	FEBRUARY-2023	MA	ARCH-2023	TEST METHOD
NO.	O. PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
С							Microbiologi	cal					
1	<b>Total Bacterial</b>	CFU/ml	200		200		220	218		236		230	APHA 23 <sup>rd</sup>
	Count												Ed.2017,9215-
													С
2	Total Coliform	/100ml	44		44		68 65			37		44	APHA 23 <sup>rd</sup>
													Ed.2017,9222-
													В
3	E.coli	/100ml	22		22		41	42		29		31	IS :15185:2016
4	Enterococcus	/100ml	14		14		21	22		21		20	IS:15186:2002
5	Salmonella	/100ml	Absen	Absent Absent			Absent		t	Absent		Absent	IS:15187:2016
6	Shigella	/100ml	Absen	t	Absent		Absent	Absen	t	Absent		Absent	APHA 23 <sup>rd</sup>
													Ed.2017,9260-
													E
7	Vibrio	/100ml	Absen	t	Absent		Absent	Absen	t	Absent		Absent	IS: 5887 (Part
													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	OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	T
1.	Organic Matter	%	0.53	0.58	0.51	0.46	0.51	0.62	IS: 2720 (Part 22):1972 RA.2015, Amds.1
2.	Phosphorus as P	μg/g	512.5	516.8	528.9	544.1	560.4	546.5	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	%	3.64	3.72	3.81	3.89	3.94	4.02	IS3025(Part 55)2003
5.2	Total Chromium as Cr+3	μg/g	102.6	111.8	124.2	134.2	138.6	144.2	EPA 3050B/7190 (Extraction &Analytical Method): 1986
5.3	Manganese as Mn	μg/g	582.4	574.6	602.1	624.5	629.3	594.4	EPA 3050B/7460 (Extraction &Analytical Method): 1986
5.4	Iron as Fe	%	3.74	3.82	3.91	3.94	3.96	4.08	EPA 3050B/7380 (Extraction &Analytical Method): 1986
5.5	Nickel as Ni	μg/g	48.9	52.2	48.62	44.52	46.44	42.35	EPA 3050B/7520 (Extraction &Analytical Method): 1986
5.6	Copper as Cu	μg/g	44.58	46.58	41.28	42.22	42.9	44.05	EPA 3050B /7210 (Extraction &Analytical Method):1986
5.7	Zinc as Zn	μg/g	84.25	84.11	90.8	88.46	86.5	88.29	EPA 3050B/7950 (Extraction &Analytical Method): 1986
5.8	Lead as Pb	μg/g	2.26	2.34	2.29	2.24	2.31	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 [M2 MOUTH OF BOCHA & NAVINAL CREEK - N 22°44'239" E 069°43'757"]

SR.			OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D						Benthic Organisms	s		
1	Macrobenthos		Amphipods	Foraminiferan	Polychates	Polychates	Polychates	Foraminiferan	APHA (23rd Ed.
			Decapod Larvae	Decapods Larvae	Gastropods	Gastropods	Gastropods	Decapods Larvae	2017)10500 C
			Isopods	Amphipods	Isopods	Isopods	Isopods	Amphipods	
			Gastropods	Polychates	Sipunculids	Sipunculids	Sipunculids	Polychates	
2	MeioBenthos		Foraminiferan	Turbellarians	Herpectacoids	Herpectacoids	Foraminiferan	Turbellarians	
			Herpectacoids	Foraminiferan	Polychates	Polychates	Polychates	Foraminiferan	
3	Population	no/m²	290	325	312	318	300	286	

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

			OCTOBER-2022 NOVEMBER-2022 DECEMBER-2022 JANUARY-2023 FEBRUARY-2023 MARCH-2023												
SR.	TEST	UNIT													TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	TEST WETTIOD
1.	рН		8.22	8.06	8.19	8.11	8.14	7.98	8.19	8.06	8.16	8.02	7.96	7.68	IS 3025 (Part11)1983
2.	Temperature	°C	30.2	30.1	30	29.9	29.8	29.7	29.7	29.6	29.8	29.7	30	29.9	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	94	78	86	80	98	82	118	94	104	94	128	114	APHA 23 <sup>rd</sup> Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.6	BDL	2.9	BDL	2.8	BDL	2.9	BDL	2.9	BDL	2.8	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.02	5.81	6	5.9	5.9	5.7	5.99	5.79	6.09	5.88	5.83	5.63	APHA 23 <sup>rd</sup> Ed.,2017,4500-O, B
6.	Salinity	ppt	35.39	36.05	35.4	36.14	35.64	36.22	35.72	35.98	35.46	36.11	36.23	37.02	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	2.41	2.37	2.76	2.59	2.49	2.15	2.84	2.59	2.67	2.76	2.93	2.76	APHA 23 <sup>rd</sup> Ed., 2017,4500 NO3-B
9.	Nitrite as NO <sub>2</sub>	μmol/L	0.465	0.448	0.379	0.276	0.259	0.13	0.474	0.31	0.198	0.379	0.3	0.235	APHA 23 <sup>rd</sup> Ed.,2017,4500NO₂B
10.	Ammonical Nitrogen as NH₃	μmol/L	3.45	3.4	2.32	1.56	2.28	1.81	2.41	1.89	2.24	2.32	3.1	2.93	APHA 23 <sup>rd</sup> Ed., 2017,4500- NH3 B
11.	Phosphates as PO <sub>4</sub>	μmol/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.65	0.47	BDL	BDL	APHA 23 <sup>rd</sup> Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.325	6.218	5.459	4.426	5.029	4.09	5.724	4.79	5.108	5.459	6.33	5.925	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> ED,2017,5520 F
14.	Total Dissolved Solids	mg/L	36110	36714	35890	36670	36112	36642	35240	35940	35108	35686	35860	36480	APHA 23 <sup>rd</sup> Ed.,2017, 2540- C
15.	COD	mg/L	28.06	20.04	24.94	16.62	32.13	24.1	32.16	24.12	24.19	24.12	28.2	16.11	APHA 23 <sup>rd</sup> 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	ОСТОВІ	ER-2022	NOVEME	BER-2022	DECEME	BER-2022	JANUAI	RY-2023	FEBRUA	RY-2023	MARC	H-2023	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α									Phytopl	ankton					
1.	Chlorophyll	mg/m³	2.49	3.11	3.1	3.25	2.87	3.21	3.11	3.2	2.95	2.58	3.11	3.65	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	1.2	2.1	1.41	1.87	1.45	1.84	1.34	1.9	1.56	1.36	2.31	2.03	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	102	120	112	109	135	152	140	160	138	143	178	148	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Ceratium	Coscinod iscus	Pinnulari a	Coscinodi scus	Odentell a	Rhizosole nia	Odentell a	Rhizosole nia	Odentell a	Surirella	Coscinod iscus	Pinnulari a	APHA (23rd Ed. 2017)10200 F
	Number and name		Diploneis	Thalassio nema	Biddulph ia	Thalassio nema	Rhizosol enia	Pinnulari a	Rhizosol enia	Pinnulari a	Rhizosol enia	Rhizosol enia	Thalassio nema	Biddulph ia	
	of group species of		Odentell a	Rhizosol enia	Navicula	Rhizosole nia	Coscinod iscus	Thalassio thrix	Coscinod iscus	Thalassio thrix	Coscinod iscus	Nitzschia	Rhizosol enia	Navicula	
	each group		Gramma tophora	Dinophys is	Thallassi osira	Dinophys is	Gramma tophora	Gramma tophora	Gramma tophora	Gramma tophora	Gramma tophora	Thalassio nema	Dinophys is	Thallassi osira	
			Melosira	Skeleton ema	Skeleton ema	Skeleton ema	Thallassi osira	Ceratium	Thallassi osira	Ceratium	Thallassi osira	Pleurosig ma	Skeleton ema	Skeleton ema	

В						Zooplankton			
1	Abudance( Population	noX103 / 100 m3	46	50	48	51	59	60	APHA (23rd Ed. 2017)10200 G
2	Name of Group		Egg(Fish and Shrimps)	Oikoplura					
	Number and name		Oikoplura Copepods nauplii	Copepods nauplii Crustacean Larvae					
	of group		Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	
	species of each group		Bivalve Larvae						
3	Total Biomass	ml/100 m³	17.54	16.74	15.89	15.89	14.23	15.63	

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

SR.	TEST	UNIT	ОСТОВЕ	R-2022	NOVEMBE	R-2022	DECEMBER	R-2022	JANUARY	-2023	FEBI	RUARY-2023	MARC	CH-2023	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	BOTTOM	/I SURFAC	CE BOT	ттом	SURFACE	воттом		
С									Microbiologic	al					
1	Total Bacterial	CFU/ml	18	86	186	5	124		126			180	1	.86	APHA 23 <sup>rd</sup>
	Count														Ed.2017,9215-C
2	Total Coliform	/100ml	50	0	49		36		40			60	4	43	APHA 23 <sup>rd</sup>
															Ed.2017,9222-B
3	E.coli	/100ml	32	2	30		25		30			38		26	IS :15185:2016
4	Enterococcus	/100ml	20	0	25		15		18			23		17	IS:15186:2002
5	Salmonella	/100ml	Abs	ent	Abse	nt	Abser	nt	Absei	nt		Absent	Ab	sent	IS:15187:2016
6	Shigella	/100ml	Abs	ent	Abse	nt	Abser	nt	Absei	nt		Absent	Ab	sent	APHA 23 <sup>rd</sup>
															Ed.2017,9260-E
7	Vibrio	/100ml	Abs	ent	Abse	nt	Abser	nt	Absei	nt		Absent	Ab	sent	IS: 5887 (Part
															V):1976

Cures

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Mr. Nitin Tandel

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

SR.	TEST	UNIT	OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.64	0.62	0.54	0.58	0.52	0.58	IS: 2720 (Part 22):1972 RA.2015, Amds.1
2.	Phosphorus as P	μg/g	562.4	542.2	569.8	542.2	562.2	574.4	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	%	3.72	3.78	3.82	3.91	3.97	3.78	IS3025(Part 55)2003
5.2	Total Chromium as Cr+3	μg/g	124.6	132.2	124.6	134.2	142.2	154.6	EPA 3050B/7190 (Extraction &Analytical Method): 1986
5.3	Manganese as Mn	μg/g	542.2	564.2	576.2	586.2	590.2	602.8	EPA 3050B/7460 (Extraction &Analytical Method): 1986
5.4	Iron as Fe	%	3.66	3.74	3.79	3.84	3.88	4.11	EPA 3050B/7380 (Extraction &Analytical Method): 1986
5.5	Nickel as Ni	μg/g	48.25	51.32	48.64	49.24	52.24	55.35	EPA 3050B/7520 (Extraction &Analytical Method): 1986
5.6	Copper as Cu	μg/g	38.69	40.25	38.42	39.25	40.15	38.24	EPA 3050B /7210 (Extraction &Analytical Method):1986
5.7	Zinc as Zn	μg/g	74.28	72.24	79.81	80.4	82.9	80.38	EPA 3050B/7950 (Extraction &Analytical Method): 1986
5.8	Lead as Pb	μg/g	3.12	2.98	2.84	2.81	2.86	2.75	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	OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D					Benthic Or	ganisms			
1	Macrobenthos		Decapods Larvae	Sipunculids	Sipunculids	Sipunculids	Isopods	Amphipods	APHA (23rd Ed.
			Isopods	Polychates	Polychates	Polychates	Sipunculids	Decapod Larvae	2017)10500 C
			Amphipods	Gastropods	Gastropods	Gastropods	Gastropods	Isopods	•
			Sipunculids	Isopods	Isopods	Isopods	Isopods	Gastropods	
2	MeioBenthos		Foraminiferan	Herpectacoids	Herpectacoids	Herpectacoids	Herpectacoids	Foraminiferan	
			Herpectacoids	Foraminiferan	Foraminiferan	Foraminiferan	Foraminiferan	Herpectacoids	
3	Population	no/m²	326	365	326	322	268	263	

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

SR.	TEST	UNIT		ER-2022	NOVEME	_		BER-2022	JANUAI		FEBRUA	RY-2023		H-2023	
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	TEST METHOD
1.	рН		8.21	8.06	8.18	8.09	8.17	8.05	8.14	8.02	8.19	8.05	8.24	8.01	IS 3025 (Part11)1983
2.	Temperature	°C	30.2	30	29.9	29.8	29.7	29.6	29.6	29.5	29.8	29.7	30	29.8	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	134	114	118	102	126	112	160	114	142	108	118	110	APHA 23 <sup>rd</sup> Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.5	BDL	2.8	BDL	3.1	BDL	3.3	BDL	3.1	BDL	3.2	BDL	IS 3025(Part 4)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.32	6.22	6.1	6	6	5.8	6.3	6.2	6.3	5.88	6.13	6.03	APHA 23 <sup>rd</sup> Ed.,2017,4500-O, B
6.	Salinity	ppt	35.48	36.11	35.94	36.28	36.11	36.37	35.74	36.12	35.81	36.17	36.24	36.68	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	2.72	2.67	3.66	3.44	2.72	2.67	2.16	2.59	2.59	2.32	3.23	2.8	APHA 23 <sup>rd</sup> Ed., 2017,4500 NO3-B
9.	Nitrite as NO <sub>2</sub>	μmol/L	0.5	0.483	0.413	0.379	0.5	0.483	0.189	0.241	0.56	0.431	0.379	0.344	APHA 23 <sup>rd</sup> Ed.,2017,4500NO₂B
10.	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	3.36	3.32	3.96	3.62	3.36	3.32	2.62	3.84	2.49	2.24	3.96	3.36	APHA 23 <sup>rd</sup> Ed., 2017,4500- NH3 B
11.	Phosphates as PO <sub>4</sub>	μmol/L	BDL	BDL	BDL	BDL	BDL	BDL	0.82	BDL	1.38	1.25	0.47	BDL	APHA 23 <sup>rd</sup> Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.58	6.473	8.033	7.439	6.58	6.473	4.969	6.671	5.64	4.991	7.569	6.504	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> ED,2017,5520 F
14.	Total Dissolved Solids	mg/L	36118	35624	35812	36214	35864	36354	35120	35862	35244	36124	36350	37110	APHA 23 <sup>rd</sup> Ed.,2017, 2540- C
15.	COD	mg/L	24.05	32.06	20.78	12.47	20.08	8.03	28.14	20.1	20.16	16.13	32.22	20.14	APHA 23 <sup>rd</sup> 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	ОСТОВІ	ER-2022	NOVEME	BER-2022	DECEMB	ER-2022	JANUAI	RY-2023	FEBRUA	RY-2023	MARC	H-2023	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом											
Α								Phytopla	ankton						
1.	Chlorophyll	mg/m³	2.69	2.78	3.65	2.78	3.2	3.11	2.98	2.87	3.01	2.96	2.58	2.48	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	1.32	0.69	1.25	0.89	0.99	1.56	0.87	1.45	1.23	1.84	1.47	1.86	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	111	110	125	128	127	149	124	152	146	169	123	176	APHA (23rd Ed. 2017)10200 F
4	Name of		Pinnulari	Pleurosig	Coscinod	Ceratium	Coscinod	Diploneis	Coscinod	Diploneis	Coscinod	Coscinodi	Ceratium	Coscinodi	APHA (23rd Ed.
	Group		а	ma	iscus		iscus		iscus		iscus	scus		scus	2017)10200 F
	Number		Thalassio	Cyclotell	Diploneis	Diploneis	Diploneis	Rhizosole	Diploneis	Rhizosole	Diploneis	Thalassio	Diploneis	Thalassio	
	and name		nema	а				nia		nia		nema		nema	
	of group		Navicula	Biddulph	Rhizosol	Odentell	Rhizosol	Nitzschia	Rhizosol	Nitzschia	Rhizosol	Rhizosole	Odentell	Rhizosole	
	species of			ia	enia	а	enia		enia		enia	nia	а	nia	
	each group		Thallassi	Skeleton	Dinophys	Gramma	Dinophys	Thalassio	Dinophys	Thalassio	Dinophys	Dinophys	Gramma	Dinophys	
			osira	ema	is	tophora	is	thrix	is	thrix	is	is	tophora	is	
			Skeleton	Thallassi	Thalassio	Melosira	Thalassio	Pleurosig	Thalassio	Pleurosig	Thalassio	Skeleton	Melosira	Skeleton	
			ema	osira	nema		nema	ma	nema	ma	nema	ета		ema	

В						Zooplankton			
1	Abudance(	noX103	39	60	74	75	66	74	APHA (23rd Ed.
	Population	/ 100							2017)10200 G
	)	m3							
2	Name of		Crustacean Larvae	Decapoda					
	Group		Egg(Fish and	Copepods					
	Number		Shrimps)	Shrimps)	Shrimps)	Shrimps)	Shrimps)		
	and name		Copepods	Copepods	Copepods	Copepods	Copepods	Crustacean Larvae	
	of group		Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	
	species of		Bivalve Larvae	Oikoplura					
	each group								
3	Total	ml/100	15.63	15.96	15.64	15.64	16.52	15.89	
	Biomass	m³							



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

SR.	TEST	UNIT	ОСТОВЕ	R-2022	NOVEMBER-	-2022	DECEMBER-20	22	JANUARY-2023	FEBF	RUARY-2023	MAR	CH-2023	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	вотто	M SURFACE	воттом	SURFACE	воттом		
С								N	/licrobiological					
1	<b>Total Bacterial</b>	CFU/ml	194	4	194		222		220		250	2	262	APHA 23 <sup>rd</sup>
	Count													Ed.2017,9215-C
2	Total Coliform	/100ml	30	)	30		40		38		42		52	APHA 23 <sup>rd</sup>
														Ed.2017,9222-B
3	E.coli	/100ml	22		22		31		33		22		36	IS :15185:2016
4	Enterococcus	/100ml	19		19		22		30		10		26	IS:15186:2002
5	Salmonella	/100ml	Abse	ent	Absent	:	Absent		Absent		Absent	Ab	sent	IS:15187:2016
6	Shigella	/100ml	Abse	ent	Absent	t	Absent		Absent		Absent	Ab	sent	APHA 23 <sup>rd</sup>
														Ed.2017,9260-E
7	Vibrio	/100ml	Abse	ent	Absent		Absent		Absent		Absent	Ab	sent	IS: 5887 (Part
														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	OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.86	0.74	0.62	0.59	0.54	0.57	IS: 2720 (Part 22):1972 RA.2015, Amds.1
2.	Phosphorus as P	μg/g	580.4	538.4	546.7	534	552.4	562.4	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	%	3.52	3.62	3.69	3.62	3.74	3.92	IS3025(Part 55)2003
5.2	Total Chromium as Cr+3	μg/g	110.4	114.5	118.6	104	112	124.2	EPA 3050B/7190 (Extraction &Analytical Method): 1986
5.3	Manganese as Mn	μg/g	539.4	540.9	551.2	548.5	550.4	562.8	EPA 3050B/7460 (Extraction &Analytical Method): 1986
5.4	Iron as Fe	%	4.11	4.06	4.11	4.06	4.09	3.89	EPA 3050B/7380 (Extraction &Analytical Method): 1986
5.5	Nickel as Ni	μg/g	38.64	41.11	46.21	44.02	44.52	42.15	EPA 3050B/7520 (Extraction &Analytical Method): 1986
5.6	Copper as Cu	μg/g	42.61	44.25	46.33	48.26	51.24	48.65	EPA 3050B /7210 (Extraction &Analytical Method):1986
5.7	Zinc as Zn	μg/g	84.21	81.36	89.45	88.05	82.54	80.28	EPA 3050B/7950 (Extraction &Analytical Method): 1986
5.8	Lead as Pb	μg/g	2.56	2.46	2.42	2.51	2.42	2.28	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	OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D					Benth	ic Organisms			
1	Macrobenthos		Polychates	Polychates	Foraminiferan	Foraminiferan	Foraminiferan	Decapods Larvae	APHA (23rd Ed.
			Gastropods	Gastropods	Gastropods	Gastropods	Gastropods	Isopods	2017)10500 C
			Isopods	Isopods	Isopods	Isopods	Isopods	Amphipods	•
			Sipunculids	Sipunculids	Sipunculids	Sipunculids	Sipunculids	Sipunculids	
2	MeioBenthos		Herpectacoids	Herpectacoids	Herpectacoids	Herpectacoids	Decapods Larvae	Foraminiferan	
			Polychates	Polychates	Polychates	Polychates	Polychates	Herpectacoids	
3	Population	no/m²	300	328	286	301	295	325	

Ceres

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

CD	TECT							ED 2022				DV 2022			TEST METHOD
SR.	TEST	UNIT		ER-2022		BER-2022		ER-2022	JANUAF		FEBRUA		MARC		TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	BOTTOM	SURFACE	воттом	
1.	pН		8.19	8.09	8.21	8.11	8.19	8.1	8.15	8.02	8.21	7.98	8.24	7.88	IS 3025 (Part11)1983
2.	Temperature	۰C	30.3	30.2	30	29.9	29.8	29.7	29.7	29.6	29.8	29.7	30	29.8	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	144	126	134	122	128	112	146	116	132	118	102	92	APHA 23 <sup>rd</sup> Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.8	BDL	2.7	BDL	2.9	BDL	3.4	BDL	2.8	BDL	2.6	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.32	6.12	6.2	6.1	6.1	6	6.3	6.1	6.3	6.19	6.13	5.93	APHA 23 <sup>rd</sup> Ed.,2017,4500-O, B
6.	Salinity	ppt	35.49	35.98	35.64	36.24	35.82	36.34	35.44	35.89	35.64	36.08	36.11	36.72	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	2.8	2.67	2.93	2.37	2.8	2.59	2.59	3.66	2.76	2.59	2.84	2.76	APHA 23 <sup>rd</sup> Ed., 2017,4500 NO3-B
9.	Nitrite as NO <sub>2</sub>	μmol/L	0.414	0.379	0.241	0.198	0.362	0.345	0.259	0.328	0.379	0.276	0.474	0.431	APHA 23 <sup>rd</sup> Ed.,2017,4500NO₂B
10.	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	3.28	3.23	3.32	3.1	2.8	2.5	3.84	3.79	2.32	1.56	2.93	2.76	APHA 23 <sup>rd</sup> Ed., 2017,4500- NH3 B
11.	Phosphates as PO <sub>4</sub>	μmol/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6	BDL	0.78	0.69	APHA 23 <sup>rd</sup> Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.494	6.279	6.491	5.668	5.962	5.435	6.689	7.778	5.459	4.426	6.244	5.951	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> ED,2017,5520 F
14.	Total Dissolved Solids	mg/L	35980	36588	35868	36452	36002	36444	35266	36020	35348	36244	35800	36520	APHA 23 <sup>rd</sup> Ed.,2017, 2540- C
15.	COD	mg/L	20.04	8.02	20.78	8.31	16.06	12.05	24.12	12.06	20.16	16.13	24.17	20.14	APHA 23 <sup>rd</sup> 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	ОСТОВІ	R-2022	NOVEME	3ER-2022	DECEMB	BER-2022	JANUAF	RY-2023	FEBRUA	RY-2023	MARC	H-2023	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α									Phytopl	ankton					
1.	Chlorophyll	mg/m³	3.14	2.87	2.69	2.87	3.11	2.87	2.87	2.65	2.58	3.23	3.11	2.68	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	0.85	0.85	1.11	0.36	2.22	1.33	1.89	1.32	1.59	2.56	1.36	2.56	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	101	96	130	86	175	123	167	119	143	178	132	146	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Pinnularia	Grammat ophora	Pinnularia	Ceratium	Navicula	Nitzschia	Navicula	Nitzschia	Ceratium	Nitzschia	Ceratium	Pleurosig ma	APHA (23rd Ed. 2017)10200 F
	Number and name		Biddulphi a	Rhizosole nia	Biddulphi a	Pinnularia	Fragillaria	Grammat ophora	Fragillaria	Grammat ophora	Diploneis	Grammat ophora	Diploneis	Cyclotella	
	of group		Navicula	Nitzschia	Navicula	Odontella	Thalassiot hrix	Diploneis	Thalassiot hrix	Diploneis	Odentella	Diploneis	Odentella	Biddulphi a	
	species of each group		Thallassio sira	Thallassio sira	Thallassio sira	Thalassiot hrix	Grammat ophora	Thalassiot hrix	Grammat ophora	Thalassiot hrix	Grammat ophora	Thalassiot hrix	Grammat ophora	Skeletone ma	
			Skeletone ma	Pleurosig ma	Skeletone ma	Thallassio sira	Surirella	Pleurosig ma	Surirella	Pleurosig ma	Melosira	Pleurosig ma	Melosira	Thallassio sira	

В						Zooplankton			
1	Abudance(	noX103	63	48	50	54	48	55	APHA (23rd Ed.
	Population	/ 100							2017)10200 G
	)	m3							
2	Name of		Copepods nauplii	Egg(Fish and					
	Group			Shrimps)	Shrimps)	Shrimps)	Shrimps)	Shrimps)	
	Number		Oikoplura	Oikoplura	Oikoplura	Oikoplura	Decapoda	Oikoplura	
	and name		Crustacean Larvae	Copepods nauplii					
	of group		Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	Crustacean	
	species of		Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	
	each group								
3	Total	ml/100	17.54	16.35	14.88	14.88	15.68	16.23	
	Biomass	m³							

Continue...

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



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SR.	TEST	UNIT	ОСТОВЕГ	R-2022	NOVEMBER-	-2022	DECEMBER-20	22	JA	NUARY-2023	F	EBRUARY-202	:3	MARC	H-2023	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	BOTTON	VI SURFACE	вотт	гом	SURFACE	BOTTO	/I SURFAC	Е ВО	ттом		
С									Micro	biological						
1	Total Bacterial	CFU/ml	190	)	216		256			254		178		1	96	APHA 23 <sup>rd</sup>
	Count															Ed.2017,9215-C
2	Total Coliform	/100ml	36		30		65			70		56		6	53	APHA 23 <sup>rd</sup>
																Ed.2017,9222-B
3	E.coli	/100ml	27		17		41			45		49		4	12	IS :15185:2016
4	Enterococcus	/100ml	15		10		19			21		29		2	22	IS:15186:2002
5	Salmonella	/100ml	Abse	nt	Absent		Absent			Absent		Absent		Ab	sent	IS:15187:2016
6	Shigella	/100ml	Abse	nt	Absent		Absent			Absent		Absent		Ab	sent	APHA 23 <sup>rd</sup>
																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 [M5 TOWARDS WESTERN SIDE OF EAST PORT - N 22°46'041" E 069°47'296"]

SR.	TEST	UNIT	OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.56	0.52	0.48	0.41	0.46	0.54	IS: 2720 (Part 22):1972 RA.2015, Amds.1
2.	Phosphorus as P	μg/g	562.8	544.2	536.6	505.4	510.2	521.4	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	%	3.68	3.71	3.78	3.81	3.89	3.96	IS3025(Part 55)2003
5.2	Total Chromium as Cr+3	μg/g	68.4	69.5	74.8	78.4	80.2	84.4	EPA 3050B/7190 (Extraction &Analytical Method): 1986
5.3	Manganese as Mn	μg/g	448.6	456.6	470.4	501.2	520.2	522.7	EPA 3050B/7460 (Extraction &Analytical Method): 1986
5.4	Iron as Fe	%	3.54	3.63	3.75	3.81	3.88	4.06	EPA 3050B/7380 (Extraction &Analytical Method): 1986
5.5	Nickel as Ni	μg/g	44.67	45.58	42.64	44.25	45.28	41.39	EPA 3050B/7520 (Extraction &Analytical Method): 1986
5.6	Copper as Cu	μg/g	34.59	35.12	38.42	40.14	42.16	46.36	EPA 3050B /7210 (Extraction &Analytical Method):1986
5.7	Zinc as Zn	μg/g	84.56	85.24	89.42	80.28	82.24	80.33	EPA 3050B/7950 (Extraction &Analytical Method): 1986
5.8	Lead as Pb	μg/g	2.54	2.62	2.56	2.64	2.53	2.46	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	OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D						Benthic Organism	s		
1	Macrobenthos		Amphipods	Amphipods	Amphipods	Amphipods	Amphipods	Polychates	APHA (23rd Ed.
			Sipunculids	Sipunculids	Polychates	Polychates	Sipunculids	Gastropods	2017)10500 C
			Isopods	Isopods	Isopods	Isopods	Isopods	Isopods	
			Gastropods	Gastropods	Gastropods	Gastropods	Gastropods	Sipunculids	
2	MeioBenthos		Decapods Larvae	Decapods Larvae	Decapods Larvae	Decapods Larvae	Decapods Larvae	Herpectacoids	
			Herpectacoids	Herpectacoids	Herpectacoids	Herpectacoids	Herpectacoids	Polychates	
3	Population	no/m²	328	360	360	362	301	365	

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

SR.	TEST	UNIT	ОСТОВІ	ER-2022		BER-2022	DECEMB			RY-2023	FEBRUA		MARC	H-2023	
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	TEST METHOD
1.	рН		8.24	8.08	8.16	8.11	8.19	8.06	8.14	7.94	8.18	8.06	8.14	7.74	IS 3025 (Part11)1983
2.	Temperature	°C	30.2	30.1	29.9	29.8	29.7	29.6	29.6	29.5	29.7	29.6	30	29.8	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	148	128	134	106	130	112	124	108	144	118	162	148	APHA 23 <sup>rd</sup> Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.9	BDL	2.8	BDL	2.9	BDL	3.2	BDL	3.1	BDL	2.4	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.22	6.02	6	5.9	5.9	5.7	6.2	5.99	6.19	6.09	6.03	5.83	APHA 23 <sup>rd</sup> Ed.,2017,4500-O, B
6.	Salinity	ppt	35.32	36.04	35.84	36.19	35.76	36.21	35.34	35.56	35.38	35.97	35.94	36.51	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	2.72	2.67	3.45	3.02	2.76	2.59	3.23	2.37	3.44	2.59	2.76	2.32	APHA 23 <sup>rd</sup> Ed., 2017,4500 NO3-B
9.	Nitrite as NO <sub>2</sub>	μmol/L	0.379	0.362	0.302	0.276	0.379	0.276	0.345	0.302	0.344	0.293	0.379	0.431	APHA 23 <sup>rd</sup> Ed.,2017,4500NO₂B
10.	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	3.45	3.36	3.19	2.84	2.32	1.56	3.62	3.28	3.83	2.75	3.19	3.02	APHA 23 <sup>rd</sup> Ed., 2017,4500- NH3 B
11.	Phosphates as PO <sub>4</sub>	μmol/L	BDL	BDL	BDL	BDL	BDL	BDL	0.52	BDL	0.86	0.78	1.29	1.12	APHA 23 <sup>rd</sup> Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.549	6.392	6.942	6.136	5.459	4.426	7.195	5.952	7.614	5.633	6.329	5.771	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> ED,2017,5520 F
14.	Total Dissolved Solids	mg/L	36110	35614	35718	36214	35894	36338	36288	36582	36324	36842	37210	37840	APHA 23 <sup>rd</sup> Ed.,2017, 2540- C
15.	COD	mg/L	16.03	12.02	37.4	29.09	24.1	20.08	20.1	16.08	32.26	20.16	36.25	24.17	APHA 23 <sup>rd</sup> 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	ОСТОВІ	R-2022	NOVEME	3ER-2022	DECEME	BER-2022	JANUAI	RY-2023	FEBRUA	RY-2023	MARC	H-2023	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	2.89	2.87	3.69	3.25	3.25	3.24	2.8	3.11	3.68	2.78	2.58	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	0.78	1.95	0.74	2.48	1.56	1.75	1.45	1.8	2.13	2.21	1.58	2.36	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	90	125	121	142	147	168	140	155	176	93	125	100	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Coscinodis cus	Coscinodis cus	Coscinodis cus	Surirella	Ceratium	Grammat ophora	Ceratium	Grammat ophora	Thalassiot hrix	Odentella	Grammat ophora	Grammat ophora	APHA (23rd Ed. 2017)10200 F
	Number and name		Diploneis	Diploneis	Diploneis	Thalassiot hrix	Diploneis	Melosira	Diploneis	Melosira	Surirella	Rhizosole nia	Rhizosole nia	Rhizosole nia	
	of group		Rhizosole nia	Rhizosole nia	Rhizosole nia	Navicula	Odentella	Odentella	Odentella	Odentella	Navicula	Coscinodis cus	Nitzschia	Nitzschia	
	species of		Dinophysi	Dinophysi	Dinophysi	Skeletone	Grammat	Pinnularia	Grammat	Pinnularia	Thallassio	Grammat	Thallassio	Thallassio	
	each group		S	s	S	ma	ophora		ophora		sira	ophora	sira	sira	
			Thalassio	Thalassion	Thalassio	Thallassio	Melosira	Pleurosig	Melosira	Pleurosig	Skeletone	Thallassio	Pleurosig	Pleurosig	
			nema	ema	nema	sira		ma		ma	ma	sira	ma	ma	

В					Zoopla	nkton			
1	Abudance( Population	noX103 / 100	50	38	44	52	57	59	APHA (23rd Ed. 2017)10200 G
	)	m3							
2	Name of		Egg(Fish and	Crustacean Larvae	Crustacean Larvae	Crustacean Larvae	Copepods nauplii	Crustacean Larvae	
	Group		Shrimps)						
	Number		Oikoplura	Egg(Fish and	Egg(Fish and	Egg(Fish and	Crustacean Larvae	Egg(Fish and	
	and name			Shrimps)	Shrimps)	Shrimps)		Shrimps)	
	of group		Copepods nauplii	Copepods	Copepods	Copepods	Oikoplura	Copepods	
	species of		Crustacean	Crustacean	Crustacean	Crustacean	Bivalve Larvae	Crustacean	
	each group		Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Oikoplura	Bivalve Larvae	
3	Total	ml/100	15.78	15.28	16.89	16.89	15.55	17.23	
	Biomass	m³							



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

SR.	TEST	UNIT	ОСТОВЕ	R-2022	NOVEMBER-	-2022	DECEMBER-20	22	JANUARY-2023	FEB	RUARY-2023	MAR	CH-2023	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	вотто	M SURFACE	воттом	SURFACE	воттом		
С								Ν	Microbiological					
1	<b>Total Bacterial</b>	CFU/ml	250	)	184		242		240		290		244	APHA 23 <sup>rd</sup>
	Count													Ed.2017,9215-C
2	<b>Total Coliform</b>	/100ml	36		33		36		40		55		36	APHA 23 <sup>rd</sup>
														Ed.2017,9222-B
3	E.coli	/100ml	29		29		29		31		41		25	IS :15185:2016
4	Enterococcus	/100ml	18		19		21		22		32		16	IS:15186:2002
5	Salmonella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Ak	osent	IS:15187:2016
6	Shigella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Ab	sent	APHA 23 <sup>rd</sup>
														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	ОСТОВІ	ER-2022	NOVEME	BER-2022	DECEMB	BER-2022	JANUAI	RY-2023	FEBRUA	RY-2023	MARC	H-2023	
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	TEST METHOD
1.	pН		8.18	7.98	8.22	8.12	8.18	8.07	8.21	8.12	8.19	8.11	8.28	8.04	IS 3025 (Part11)1983
2.	Temperature	۰C	30.2	30.1	30	29.9	29.6	29.5	29.5	29.4	29.8	29.7	30	29.8	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	118	104	124	112	130	116	152	114	146	124	128	120	APHA 23 <sup>rd</sup> Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	3.1	BDL	3	BDL	2.8	BDL	3.1	BDL	2.9	BDL	2.8	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.12	5.92	5.8	5.7	5.9	5.7	6.1	5.89	6.09	5.99	5.93	5.73	APHA 23 <sup>rd</sup> Ed.,2017,4500-O, B
6.	Salinity	ppt	35.64	36.12	35.61	36.24	36.82	36.19	36.12	36.32	35.86	36.17	36.18	36.74	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	2.54	2.5	2.49	2.32	2.8	2.37	2.33	2.24	3.45	2.8	2.84	2.59	APHA 23 <sup>rd</sup> Ed., 2017,4500 NO3-B
9.	Nitrite as NO <sub>2</sub>	μmol/L	0.431	0.414	0.259	0.215	0.259	0.189	0.379	0.362	0.345	0.276	0.56	0.517	APHA 23 <sup>rd</sup> Ed.,2017,4500NO₂B
10.	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	3.1	3.02	2.28	2.16	4.05	3.83	3.4	3.36	3.28	3.1	3.36	3.1	APHA 23 <sup>rd</sup> Ed., 2017,4500- NH3 B
11.	Phosphates as PO <sub>4</sub>	μmol/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.65	BDL	BDL	BDL	APHA 23 <sup>rd</sup> Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.071	5.934	5.029	4.695	7.109	6.389	6.109	5.962	7.075	6.176	6.76	6.207	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> ED,2017,5520 F
14.	Total Dissolved Solids	mg/L	36218	36684	36188	36522	36124	36514	35620	36080	35760	36240	36300	37050	APHA 23 <sup>rd</sup> Ed.,2017, 2540- C
15.	COD	mg/L	24.05	20.04	33.25	24.94	24.1	16.06	28.14	24.12	28.22	24.19	32.22	28.2	APHA 23 <sup>rd</sup> 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	ОСТОВІ	ER-2022	NOVEME	BER-2022	DECEMB	ER-2022	JANUAI	RY-2023	FEBRUA	RY-2023	MARC	H-2023	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α									Phytopl	ankton					
1.	Chlorophyll	mg/m³	2.36	2.36	3.25	2.14	2.96	2.77	3.11	2.78	2.65	2.87	2.45	3.14	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	1.86	0.75	0.95	0.89	1.11	1.28	0.98	1.32	1.12	1.66	1.69	2.13	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	120	142	135	128	163	86	170	95	162	120	122	175	APHA (23rd Ed. 2017)10200 F
4	Name of		Grammat	Rhizosole	Thalassiot	Rhizosole	Coscinodis	Skeletone	Coscinodis	Skeletone	Coscinodis	Dinophysi	Coscinodis	Coscinodis	APHA (23rd Ed.
	Group		ophora	nia	hrix	nia	cus	ma	cus	ma	cus	S	cus	cus	2017)10200 F
	Number and name		Rhizosole nia	Pinnularia	Surirella	Pinnularia	Diploneis	Grammat ophora	Diploneis	Grammat ophora	Diploneis	Pinnularia	Diploneis	Diploneis	·
	of group		Nitzschia	Thalassiot hrix	Navicula	Thalassiot hrix	Rhizosole nia	Nitzschia	Rhizosole nia	Nitzschia	Rhizosole nia	Thalassiot hrix	Rhizosole nia	Rhizosole nia	
	species of		Thalassio	Grammat	Thallassio	Grammat	Dinophysi	Thalassiot	Dinophysi	Thalassiot	Dinophysi	Grammat	Dinophysi	Dinophysi	
	each group		nema	ophora	sira	ophora	s	hrix	s	hrix	s	ophora	s	s	
			Pleurosig	Ceratium	Skeletone	Ceratium	Thalassio	Pleurosig	Thalassio	Pleurosig	Thalassio	Ceratium	Thalassio	Thalassion	
			ma		ma		nema	ma	nema	ma	nema		nema	ета	

В					Zoopla	nkton			
1	Abudance(	noX103	45	56	61	70	52	50	APHA (23rd Ed.
	Population \	/ 100 m3							2017)10200 G
2	Name of	1113	Crustacean	Copepods nauplii	Copepods nauplii	Copepods nauplii	Copepods	Copepods	
	Group		Oikoplura	Copepods	Copepods	Copepods	Oikoplura	Oikoplura	
	Number		Crustacean Larvae						
	and name		Oikoplura	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Crustacean	Crustacean	
	of group		Bivalve Larvae	Crustacean	Crustacean	Crustacean	Bivalve Larvae	Bivalve Larvae	
	species of								
	each group								
3	Total	ml/100	17.21	16.98	15.48	15.6	16.24	17.42	
	Biomass	m³							



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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	ОСТОВЕГ	R-2022	NOVEMBER-	2022	DECEMBER-20	22	JANUARY-2023	FEBI	RUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	вотто	M SURFACE	воттом	SURFACE	воттом	
С								N	licrobiological				
1	Total Bacterial	CFU/ml	270	)	128		284		284		164	256	APHA 23 <sup>rd</sup>
	Count												Ed.2017,9215-C
2	Total Coliform	/100ml	40		24		41		42		35	41	APHA 23 <sup>rd</sup>
													Ed.2017,9222-B
3	E.coli	/100ml	33		12		33		32		28	31	IS :15185:2016
4	Enterococcus	/100ml	20		8		16		18		11	23	IS:15186:2002
5	Salmonella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Absent	IS:15187:2016
6	Shigella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Absent	APHA 23 <sup>rd</sup>
													Ed.2017,9260-E
7	Vibrio	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Absent	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"]

SR.	TEST	UNIT	OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
1.	Organic Matter	%	0.62	0.59	0.51	0.43	0.48	0.56	IS: 2720 (Part 22):1972 RA.2015, Amds.1
2.	Phosphorus as P	μg/g	541.2	525.2	532.4	506.4	514.2	523.6	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	%	3.49	3.55	3.64	3.71	3.46	3.62	IS3025(Part 55)2003
5.2	Total Chromium as Cr+3	μg/g	74.2	78.5	86.5	88.2	86.3	89.6	EPA 3050B/7190 (Extraction &Analytical Method): 1986
5.3	Manganese as Mn	μg/g	524.64	534.4	551.2	542.4	548.3	555.8	EPA 3050B/7460 (Extraction &Analytical Method): 1986
5.4	Iron as Fe	%	3.58	3.62	3.71	3.76	3.81	3.96	EPA 3050B/7380 (Extraction &Analytical Method): 1986
5.5	Nickel as Ni	μg/g	36.21	36.28	38.26	38.88	39.42	42.21	EPA 3050B/7520 (Extraction &Analytical Method): 1986
5.6	Copper as Cu	μg/g	28.64	29.22	34.21	35.06	36.28	37.21	EPA 3050B /7210 (Extraction &Analytical Method):1986
5.7	Zinc as Zn	μg/g	82.48	84.12	91.24	92.12	91.8	98.1	EPA 3050B/7950 (Extraction &Analytical Method): 1986
5.8	Lead as Pb	μg/g	3.11	2.86	2.81	2.74	2.46	2.52	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	OCTOBER-2022	NOVEMBER-2022	DECEMBER-2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023	TEST METHOD
NO.	PARAMETERS		SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	
D						Benthic Organisms	s		
1	Macrobenthos		Gastropods	Gastropods	Isopods	Isopods	Isopods	Sipunculids	APHA (23rd Ed.
			Polychates	Polychates	Polychates	Polychates	Polychates	Polychates	2017)10500 C
			Sipunculids	Sipunculids	Sipunculids	Sipunculids	Sipunculids	Gastropods	•
			Amphipods	Amphipods	Amphipods	Amphipods	Amphipods	Isopods	
2	MeioBenthos		Herpectacoids	Herpectacoids	Herpectacoids	Herpectacoids	Herpectacoids	Herpectacoids	
			Foraminiferan	Foraminiferan	Decapods Larvae	Decapods Larvae	Decapods Larvae	Foraminiferan	
3	Population	no/m²	270	240	312	320	347	289	

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

SR.	TEST	UNIT	ОСТОВІ	ER-2022	NOVEME	BER-2022	DECEME	BER-2022	JANUAF	RY-2023	FEBRUA	RY-2023	MARC	H-2023	
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	TEST METHOD
1.	pН		8.24	8.11	8.06	7.94	8.12	7.97	8.18	8.04	8.17	8.07	8.12	7.84	IS 3025 (Part11)1983
2.	Temperature	°C	30.3	30.2	29.9	29.8	29.7	29.6	29.6	29.5	29.8	29.7	29.9	28.8	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	134	116	128	106	134	118	124	108	111	102	118	94	APHA 23 <sup>rd</sup> Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.9	BDL	3.1	BDL	2.8	BDL	3.3	BDL	2.8	BDL	3	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.12	6.02	6	5.9	5.9	5.8	6.1	5.99	5.99	5.88	5.93	5.83	APHA 23 <sup>rd</sup> Ed.,2017,4500-O, B
6.	Salinity	ppt	35.41	36.15	35.44	36.24	35.52	36.22	35.02	35.84	35.24	35.89	35.82	36.27	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	2.5	2.41	2.84	2.59	3.66	3.02	2.76	2.59	2.72	2.67	2.93	2.67	APHA 23 <sup>rd</sup> Ed., 2017,4500 NO3-B
9.	Nitrite as NO <sub>2</sub>	μmol/L	0.448	0.431	0.345	0.3	0.328	0.259	0.379	0.276	0.5	0.483	0.241	0.198	APHA 23 <sup>rd</sup> Ed.,2017,4500NO₂B
10.	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	3.36	3.28	2.49	2.06	3.79	3.36	2.32	1.56	3.36	3.32	2.84	2.67	APHA 23 <sup>rd</sup> Ed., 2017,4500- NH3 B
11.	Phosphates as PO <sub>4</sub>	μmol/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.47	BDL	BDL	BDL	APHA 23 <sup>rd</sup> Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.308	6.121	5.675	4.95	7.778	6.639	5.459	4.426	6.58	6.473	6.011	5.538	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> ED,2017,5520 F
14.	Total Dissolved Solids	mg/L	35984	36594	35864	36486	35800	36470	35422	35940	35420	36260	36890	37400	APHA 23 <sup>rd</sup> Ed.,2017, 2540- C
15.	COD	mg/L	24.05	16.03	29.09	20.78	20.08	12.05	28.14	20.1	24.19	20.16	28.2	24.17	APHA 23 <sup>rd</sup> 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	ОСТОВІ	ER-2022	NOVEME	BER-2022	DECEME	BER-2022	JANUAI	RY-2023	FEBRUA	RY-2023	MARC	H-2023	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α									Phytopl	ankton					
1.	Chlorophyll	mg/m³	3.21	2.6	3.21	3.21	3.26	3.14	3.33	3.17	3.02	3.64	3.25	2.88	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	1.02	1.1	2.23	1.47	1.85	2	1.78	1.99	2.01	2.13	1.96	1.86	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	86	135	90	96	152	135	149	132	140	155	152	146	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Nitzschia	Melosira	Navicula	Pinnularia	Fragillaria	Ceratium	Fragillaria	Ceratium	Thallassio sira	Rhizosole nia	Rhizosole nia	Diploneis	APHA (23rd Ed. 2017)10200 F
	Number and name		Pinnularia	Cyclotella	Skeletone ma	Surirella	Thalassio nema	Pinnularia	Thalassio nema	Pinnularia	Melosira	Pinnularia	Pinnularia	Rhizosole nia	
	of group		Odontella	Odontella	Rhizosole nia	Odentella	Navicula	Odontella	Navicula	Odontella	Nitzschia	Thalassiot hrix	Thalassiot hrix	Nitzschia	
	species of		Dinophysi	Skeletone	Dinophysi	Grammat	Thallassio	Thalassiot	Thallassio	Thalassiot	Rhizosole	Grammat	Grammat	Thalassiot	
	each group		S	ma	s	ophora	sira	hrix	sira	hrix	nia	ophora	ophora	hrix	
			Surirella	Thallassio sira	Thalassio nema	Melosira	Skeletone ma	Thallassio sira	Skeletone ma	Thallassio sira	Pleurosig ma	Ceratium	Ceratium	Pleurosig ma	

В					Zoopla	nkton			
1	Abudance( Population )	noX103 / 100 m3	52	49	54	59	64	44	APHA (23rd Ed. 2017)10200 G
2	Name of		Copepods nauplii	Decapoda					
	Group		Copepods	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Copepods	
	Number		Crustacean Larvae						
	and name		Bivalve Larvae	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Crustacean	
	of group species of each group		Crustacean	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Bivalve Larvae	Oikoplura	
3	Total Biomass	ml/100 m³	14.58	15.63	14.63	15.03	16.47	14.23	



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

SR.	TEST	UNIT	ОСТОВЕГ	R-2022	NOVEMBER-	2022	DECEMBER-20	22	JANUARY-2023	FEB	RUARY-2023	MAR	CH-2023	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	BOTTON	1 SURFACE	BOTTO	M SURFACE	воттом	SURFACE	воттом		
С								M	licrobiological					
1	Total Bacterial	CFU/ml	248	3	200		200		211		186		202	APHA 23 <sup>rd</sup>
	Count													Ed.2017,9215-C
2	Total Coliform	/100ml	35		39		39		41		50		47	APHA 23 <sup>rd</sup>
														Ed.2017,9222-B
3	E.coli	/100ml	30		29		29		32		26		30	IS :15185:2016
4	Enterococcus	/100ml	28		22		22		24		14		21	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	Al	bsent	APHA 23 <sup>rd</sup>
														Ed.2017,9260-E
7	Vibrio	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Al	bsent	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	ОСТОВІ		NOVEME			ER-2022	JANUAF	27 2022	FEBRUA	_	MARC	⊔ 2022	
NO.	PARAMETERS	OINIT	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM	TEST METHOD
			8.22	8.1	8.14	8.06	8.19	8.07	8.16	8.01	8.12	8.03	8.17	7.96	IC 2025 (Doub11)1002
1.	pH		_	-	-						-		-		IS 3025 (Part11)1983
2.	Temperature	°C	30.3	30.1	29.9	29.8	29.7	29.6	29.6	29.5	29.8	29.7	29.9	29.8	IS 3025 (Part 9)1984
3.	Total Suspended Solids	mg/L	128	116	114	98	120	102	144	112	128	116	112	84	APHA 23 <sup>rd</sup> Ed.,2017,2540- D
4.	BOD (3 Days @ 27°C)	mg/L	2.9	BDL	2.8	BDL	2.9	BDL	3.1	BDL	2.7	BDL	3.1	BDL	IS 3025(Part 44)1993Amd.01
5.	Dissolved Oxygen	mg/L	6.02	5.92	6.1	6	6	5.9	5.99	5.89	6.09	5.99	5.83	5.63	APHA 23 <sup>rd</sup> Ed.,2017,4500-O, B
6.	Salinity	ppt	35.24	36.01	35.22	36.15	35.61	36.24	35.84	36.18	35.94	36.22	36.25	36.98	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	2.67	2.54	2.67	2.33	2.84	2.59	2.76	2.59	2.84	2.59	3.66	3.44	APHA 23 <sup>rd</sup> Ed., 2017,4500 NO3-B
9.	Nitrite as NO <sub>2</sub>	μmol/L	0.414	0.362	0.325	0.235	0.474	0.31	0.379	0.276	0.474	0.31	0.413	0.379	APHA 23 <sup>rd</sup> Ed.,2017,4500NO₂B
10.	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	3.4	3.32	2.67	2.58	2.41	1.89	2.32	1.56	2.41	1.89	3.96	3.62	APHA 23 <sup>rd</sup> Ed., 2017,4500- NH3 B
11.	Phosphates as PO <sub>4</sub>	μmol/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.65	BDL	0.56	BDL	APHA 23 <sup>rd</sup> Ed.,2017,4500-P, D
12.	Total Nitrogen	μmol/L	6.484	6.222	5.665	5.145	5.724	4.79	5.459	4.426	5.724	4.79	8.033	7.439	APHA 23 <sup>rd</sup> 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 <sup>rd</sup> ED,2017,5520 F
14.	Total Dissolved Solids	mg/L	36188	36806	36144	36582	36210	36690	35888	36310	35940	36480	36660	37340	APHA 23 <sup>rd</sup> Ed.,2017, 2540- C
15.	COD	mg/L	20.04	12.02	24.94	33.25	20.08	12.05	24.12	16.08	20.16	16.13	24.17	20.14	APHA 23 <sup>rd</sup> 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	ОСТОВІ	ER-2022	NOVEME	BER-2022	DECEMB	ER-2022	JANUAI	RY-2023	FEBRUA	RY-2023	MARC	H-2023	TEST METHOD
NO.	PARAMETE RS		SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	SURFACE	воттом	
Α									Phytopl	ankton					
1.	Chlorophyll	mg/m³	2.11	2.86	2.21	2.86	2.36	2.65	3.26	3.01	2.27	2.89	2.65	3.01	APHA (23rd Ed. 2017)10200 H
2.	Phaeophyti n	mg/m³	1.43	0.97	1.87	1.25	0.85	1.49	0.89	1.88	1.11	2.1	1.63	2.44	APHA (23rd Ed. 2017)10200 H
3.	Cell Count	No. x 10³/L	95	97	102	98	140	127	134	130	134	106	145	152	APHA (23rd Ed. 2017)10200 F
4	Name of Group		Odentell a	Diploneis	Melosira	Nitzschia	Thallassi osira	Melosira	Thallassi osira	Melosira	Dinophys is	Pinnulari a	Nitzschia	Nitzschia	APHA (23rd Ed. 2017)10200 F
	Number and name		Rhizosol enia	Rhizosole nia	Pinnulari a	Pinnulari a	Melosira	Cyclotell a	Melosira	Cyclotell a	Pinnulari a	Surirella	Pinnulari a	Gramma tophora	·
	of group species of		Coscinod iscus	Nitzschia	Skeleton ema	Odontell a	Nitzschia	Odontell a	Nitzschia	Odontell a	Thalassio thrix	Odentell a	Diploneis	Diploneis	
	each group		Gramma tophora	Thalassio thrix	Thallassi osira	Dinophys is	Rhizosol enia	Skeleton ema	Rhizosol enia	Skeleton ema	Gramma tophora	Gramma tophora	Gramma tophora	Thalassio thrix	
			Thallassi osira	Pleurosig ma	Thalassio nema	Surirella	Pleurosig ma	Thallassi osira	Pleurosig ma	Thallassi osira	Ceratium	Melosira	Ceratium	Pleurosig ma	

В						Zooplankton			
1	Abudance( Population )	noX103 / 100 m3	40	54	70	72	44	42	APHA (23rd Ed. 2017)10200 G
2	Name of Group		Copepods nauplii	Crustacean	Crustacean	Crustacean	Crustacean	Egg(Fish and Shrimps)	
	Number		Oikoplura	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Oikoplura	
	and name		Crustacean Larvae	Copepods nauplii					
	of group		Oikoplura	Oikoplura	Oikoplura	Oikoplura	Oikoplura	Crustacean	
	species of each group		Bivalve Larvae						
3	Total Biomass	ml/100 m <sup>3</sup>	16.54	17.36	16.32	16.45	13.25	13.45	



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

SR.	TEST	UNIT	ОСТОВЕ	R-2022	NOVEMBER-	2022	DECEMBER-20	22	JANUARY-2023	FEBI	RUARY-2023	MAR	CH-2023	TEST METHOD
NO.	PARAMETERS		SURFACE	воттом	SURFACE	воттом	SURFACE	вотто	M SURFACE	воттом	SURFACE	воттом		
С								N	/licrobiological					
1	<b>Total Bacterial</b>	CFU/ml	184	1	196		210		215		206		222	APHA 23 <sup>rd</sup>
	Count													Ed.2017,9215-C
2	<b>Total Coliform</b>	/100ml	49		47		48		51		42		35	APHA 23 <sup>rd</sup>
														Ed.2017,9222-B
3	E.coli	/100ml	38		25		23		25		35		23	IS :15185:2016
4	Enterococcus	/100ml	27		20		20		18		22		14	IS:15186:2002
5	Salmonella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Al	osent	IS:15187:2016
6	Shigella	/100ml	Abse	nt	Absent		Absent		Absent		Absent	Al	osent	APHA 23 <sup>rd</sup>
														Ed.2017,9260-E
7	Vibrio	/100ml	110	)	142		230		222		212		196	IS: 5887 (Part
														V):1976

Resel

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#### **RESULTS OF ETP OUTLET WATER**

				INL	SULIS OF EIP	OUILLI WAIL	<u>'\</u>			
					LIQUID T	ERMINAL				
			OCTOBER-2022	NOVEMBER-	DECEMBER-	JANUARY-2023	FEBRUARY-	MARCH-2023	GPCB	
SR.NO.	TEST PARAMETERS	UNIT		2022	2022		2023		Limit	TEST METHOD
			21-10-2022	21-11-2022	28-12-2022	28-01-2023	27-02-2023	29-03-2023	Lillie	
1.	Colour	Pt. Co. Scale	30	25	30	20	40	50	100	IS 3025(Part 4)
2.	pH @ 27 ° C	ı	7.05	7.35	7.24	7.48	6.94	7.08	6.5 to 8.5	APHA 23 <sup>rd</sup> Ed.,2017,4500- H <sup>+</sup> B
3.	Temperature	οС	30.5	30	29	28.5	29	29	40	IS 3025(Part 9)1984
4.	Total Suspended Solid	mg/L	36	32	30	34	42	26	100	APHA 23 <sup>rd</sup> Ed.,2017,2540 –D
5.	Total Dissolved Solids	mg/L	1480	1480	1460	1044	904	990	2100	APHA 23 <sup>rd</sup> Ed.,2017,2540- C
6.	COD	mg/L	81.1	78.6	86.4	82.4	84.2	80.6	100	IS 3025(Part 58)2006
7.	BOD (3 days at 27 °C)	mg/L	22	21	23	23	23	22	30	IS 3025(Part 44)1993Amd.01
8.	Chloride (as Cl) -	mg/L	539.1	510.4	311.1	410.5	536	443.2	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 <sub>4</sub> )	mg/L	94	88	33.4	46	110	90	1000	IS 3025(Part 24)1986
11.	Ammonical Nitrogen	mg/L	29.8	25.4	25.3	18.6	22.4	26.8	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 <sup>rd</sup> Ed.,2017,3111-B



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					LIQUID T	ERMINAL			GPCB Limit	TEST METHOD
SR.NO.	TEST PARAMETERS	UNIT	OCTOBER-2022	NOVEMBER- 2022	DECEMBER- 2022	JANUARY-2023	FEBRUARY-2023	MARCH-2023		
			21-10-2022	21-11-2022	28-12-2022	28-01-2023	27-02-2023	29-03-2023		
15.	Sulphide as S	mg/L	0.12	0.64	0.6	0.94	0.86	0.58	2	APHA 23 <sup>rd</sup> Ed.,2017,4500 S <sup>-2</sup> 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 <sup>rd</sup> Ed.,2017,3111-B
17.	Fluoride as F	mg/L	0.84	0.64	1.1	1.15	0.94	0.86	2	APHA 23 <sup>rd</sup> Ed.,2017,4500 F, D
18.	Residual Chlorine	mg/L	0.75	0.82	0.94	0.86	BDL(MDL:0.1)	0.92	0.5 Min.	APHA 23 <sup>rd</sup> Ed.,2017,4500-Cl- B
19.	Percent Sodium	%	45.93	45.32	47.91	47.85	46.99	45.28	60	By Calculation
20.	Sodium Absorption ratio		6.5	5.73	4.86	5.03	3.46	3.3	26	By Calculation

Quel

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			Results of A	mbient Air Qua	lity Monitoring			
Name	of Location	CT3 RMU-2						
	Date of			Pai	rameter with Resu	ults		
Sr. No.	Monitoring	PM <sub>10</sub> μg/m <sup>3</sup>	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO₂ μg/m³	NO <sub>2</sub> μg/m³	CO mg/m <sup>3</sup>	HC μg/m³	Benzene μg/m³
1.	03-10-2022	84.41	39.33	22.47	29.33	0.92	NOT DETECTED	NOT DETECTED
2.	06-10-2022	76.53	34.26	19.89	26.34	1.15	NOT DETECTED	NOT DETECTED
3.	10-10-2022	85.65	38.93	26.69	37.18	1.00	NOT DETECTED	NOT DETECTED
4.	13-10-2022	86.38	28.63	34.27	41.13	1.20	NOT DETECTED	NOT DETECTED
5.	17-10-2022	72.97	37.23	31.92	36.48	1.15	NOT DETECTED	NOT DETECTED
6.	20-10-2022	78.29	42.35	23.74	33.63	1.23	NOT DETECTED	NOT DETECTED
7.	27-10-2022	82.36	31.12	26.48	36.82	1.00	NOT DETECTED	NOT DETECTED
8.	28-10-2022	79.19	29.70	34.86	38.62	0.95	NOT DETECTED	NOT DETECTED
9.	31-10-2022	88.69	34.26	29.85	36.73	1.15	NOT DETECTED	NOT DETECTED
10.	03-11-2022	85.45	45.12	17.68	29.34	1.00	2.94	NOT DETECTED
11.	07-11-2022	88.34	44.56	20.14	32.45	0.94	4.69	NOT DETECTED
12.	10-11-2022	86.78	49.12	19.87	34.12	1.15	3.27	NOT DETECTED
13.	14-11-2022	79.23	40.16	20.15	32.45	1.15	4.19	NOT DETECTED
14.	17-11-2022	85.34	47.12	17.89	27.89	1.00	6.83	NOT DETECTED
15.	21-11-2022	83.45	44.56	21.45	31.89	0.95	6.03	NOT DETECTED

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Nam	e of Location	CT3 RMU-2								
	Date of	Parameter with Results								
Sr. No.	Monitoring	PM <sub>10</sub> μg/m <sup>3</sup>	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO <sub>2</sub> μg/m <sup>3</sup>	NO <sub>2</sub> μg/m³	CO mg/m <sup>3</sup>	HC μg/m³	Benzene μg/m³		
16.	24-11-2022	81.26	39.12	22.17	34.12	1.18	3.35	NOT DETECTED		
17.	28-11-2022	83.54	44.23	15.89	28.92	1.05	5.12	NOT DETECTED		
18.	01-12-2022	83.26	36.38	24.75	36.68	1.15	4.21	NOT DETECTED		
19.	05-12-2022	76.23	39.63	16.92	27.13	1.00	3.27	NOT DETECTED		
20.	08-12-2022	85.39	42.39	26.46	32.04	1.19	2.19	NOT DETECTED		
21.	12-12-2022	74.62	44.26	24.19	28.46	0.92	2.34	NOT DETECTED		
22.	15-12-2022	89.34	37.85	24.74	38.19	1.15	4.31	NOT DETECTED		
23.	19-12-2022	82.62	41.05	27.64	37.26	1.14	4.72	NOT DETECTED		
24.	22-12-2022	75.44	34.97	16.54	29.91	1.00	4.86	NOT DETECTED		
25.	26-12-2022	73.86	37.13	18.62	32.25	1.16	2.64	NOT DETECTED		
26.	29-12-2022	87.63	32.57	22.39	36.47	1.00	3.18	NOT DETECTED		
27.	02-01-2023	71.69	42.17	27.73	33.18	1.00	2.96	NOT DETECTED		
28.	05-01-2023	82.11	32.92	24.84	34.79	1.13	3.26	NOT DETECTED		
29.	09-01-2023	87.24	31.29	21.46	27.56	1.00	3.28	NOT DETECTED		
30.	12-01-2023	85.24	38.37	28.84	34.1	1.15	2.98	NOT DETECTED		
31.	16-01-2023	67.86	27.41	18.27	31.36	1.00	3.17	NOT DETECTED		

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Name	e of Location	CT3 RMU-2								
	Date of	Parameter with Results								
Sr. No.	Monitoring	PM <sub>10</sub> μg/m <sup>3</sup>	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO <sub>2</sub> μg/m³	NO₂ μg/m³	CO mg/m <sup>3</sup>	HC μg/m³	Benzene μg/m³		
32.	19-01-2023	83.02	31.27	22.76	29.14	1.15	3.63	NOT DETECTED		
33.	23-01-2023	68.39	38.49	21.27	37.56	1.12	5.72	NOT DETECTED		
34.	26-01-2023	86.56	31.28	24.66	36.96	1.19	3.68	NOT DETECTED		
35.	30-01-2023	73.42	26.58	28.93	33.41	1.15	2.39	NOT DETECTED		
36.	02-02-2023	78.63	34.58	23.73	28.14	1.17	3.28	NOT DETECTED		
37.	06-02-2023	64.18	37.16	31.47	39.02	1.00	4.26	NOT DETECTED		
38.	09-02-2023	85.3	43.63	27.59	34.61	0.96	3.59	NOT DETECTED		
39.	13-02-2023	72.44	31.63	26.56	31.29	1.00	3.73	NOT DETECTED		
40.	16-02-2023	87.18	42.16	34.71	41.38	1.14	4.82	NOT DETECTED		
41.	20-02-2023	76.28	36.28	31.39	37.86	1.15	2.69	NOT DETECTED		
42.	23-02-2023	86.27	34.92	26.37	33.49	1.00	3.61	NOT DETECTED		
43.	27-02-2023	71.32	36.47	28.62	32.17	1.12	4.79	NOT DETECTED		
44.	02-03-2023	88.48	31.25	27.61	34.05	1.00	3.89	NOT DETECTED		
45.	06-03-2023	81.97	43.76	36.28	41.83	1.14	4.79	NOT DETECTED		
46.	09-03-2023	85.35	39.68	34.76	39.53	1.17	3.26	NOT DETECTED		
47.	13-03-2023	78.12	36.62	29.76	34.14	1.13	3.15	NOT DETECTED		

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Name	Name of Location CT3 RMU-2									
	Date of	Parameter with Results								
Sr. No. Monitoring		PM <sub>10</sub> μg/m³	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO <sub>2</sub> μg/m³	NO <sub>2</sub> μg/m³	CO mg/m³	HC μg/m³	Benzene μg/m³		
48.	16-03-2023	86.39	38.11	27.36	32.89	1.00	4.16	NOT DETECTED		
49.	20-03-2023	79.83	40.87	33.46	38.95	1.18	3.64	NOT DETECTED		
50.	23-03-2023	85.76	42.86	36.14	42.47	1.14	4.28	NOT DETECTED		
51.	27-03-2023	72.19	39.76	31.53	37.68	1.00	4.18	NOT DETECTED		
52.	30-03-2023	78.84	36.17	28.73	35.66	1.15	3.57	NOT DETECTED		
	ble Value as per IAAQMS	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 Ambient Air Quality Monitoring									
Name	of Location	Near Fire Station	1							
	Date of Monitoring	Parameter with Results								
Sr. No.		PM <sub>10</sub> μg/m <sup>3</sup>	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO <sub>2</sub> μg/m³	NO <sub>2</sub> μg/m³	CO mg/m³	HC μg/m³	Benzene μg/m³		
1.	03-10-2022	87.35	37.24	24.92	32.24	1.00	NOT DETECTED	NOT DETECTED		
2.	06-10-2022	72.06	32.21	27.58	34.39	1.15	NOT DETECTED	NOT DETECTED		
3.	10-10-2022	82.91	28.36	23.93	28.64	0.92	NOT DETECTED	NOT DETECTED		
4.	13-10-2022	75.31	38.95	28.37	37.81	0.95	NOT DETECTED	NOT DETECTED		
5.	17-10-2022	83.28	36.82	31.29	38.62	1.10	NOT DETECTED	NOT DETECTED		
6.	20-10-2022	83.23	31.06	34.22	41.27	1.14	NOT DETECTED	NOT DETECTED		
7.	27-10-2022	79.42	29.24	28.39	36.74	0.90	NOT DETECTED	NOT DETECTED		
8.	28-10-2022	81.29	37.86	28.19	32.68	1.15	NOT DETECTED	NOT DETECTED		
9.	31-10-2022	88.67	38.72	33.26	39.93	1.00	NOT DETECTED	NOT DETECTED		
10.	03-11-2022	81.23	38.76	21.34	26.51	1.00	3.95	NOT DETECTED		
11.	07-11-2022	83.45	35.12	18.12	23.45	1.15	4.13	NOT DETECTED		
12.	10-11-2022	80.12	30.89	25.23	29.23	0.94	4.74	NOT DETECTED		
13.	14-11-2022	73.45	39.76	28.15	33.45	1.10	5.83	NOT DETECTED		
14.	17-11-2022	77.34	31.25	25.66	30.12	1.15	3.89	NOT DETECTED		
15.	21-11-2022	85.67	43.45	27.35	32.05	0.95	5.64	NOT DETECTED		

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Nam	e of Location	Near Fire Station	n						
	Date of	Parameter with Results							
Sr. No.	Monitoring	PM <sub>10</sub> μg/m <sup>3</sup>	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO <sub>2</sub> μg/m <sup>3</sup>	NO <sub>2</sub> μg/m³	CO mg/m <sup>3</sup>	HC μg/m³	Benzene μg/m³	
16.	24-11-2022	82.45	38.12	23.45	28.45	1.13	3.68	NOT DETECTED	
17.	28-11-2022	73.45	29.53	27.15	32.45	1.15	4.13	NOT DETECTED	
18.	01-12-2022	73.28	43.39	17.2	21.63	1.18	2.64	NOT DETECTED	
19.	05-12-2022	78.64	39.17	24.36	32.87	1.00	2.39	NOT DETECTED	
20.	08-12-2022	87.32	34.53	28.61	37.27	1.16	3.18	NOT DETECTED	
21.	12-12-2022	82.59	44.16	21.67	31.46	1.00	4.4	NOT DETECTED	
22.	15-12-2022	71.36	37.49	27.36	35.97	1.15	4.33	NOT DETECTED	
23.	19-12-2022	89.61	36.83	29.72	38.49	1.15	2.97	NOT DETECTED	
24.	22-12-2022	68.42	41.06	28.48	33.74	1.12	5.27	NOT DETECTED	
25.	26-12-2022	78.26	36.11	24.17	29.55	1.00	2.41	NOT DETECTED	
26.	29-12-2022	73.47	39.58	26.74	34.16	1.12	3.79	NOT DETECTED	
27.	02-01-2023	87.55	29.38	14.45	27.52	1.00	3.73	NOT DETECTED	
28.	05-01-2023	73.18	31.84	28.63	28.48	1.13	4.18	NOT DETECTED	
29.	09-01-2023	64.83	38.61	21.99	34.17	1.15	2.48	NOT DETECTED	
30.	12-01-2023	87.36	35.26	26.28	31.63	1.12	3.28	NOT DETECTED	
31.	16-01-2023	69.58	27.42	31.24	39.29	1.00	3.77	NOT DETECTED	

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Name	e of Location	Near Fire Station								
	Date of	Parameter with Results								
Sr. No.	Sr. No. Monitoring	PM <sub>10</sub> μg/m³	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO₂ μg/m³	NO₂ μg/m³	CO mg/m³	HC μg/m³	Benzene μg/m³		
32.	19-01-2023	81.27	31.48	23.59	36.92	1.00	3.39	NOT DETECTED		
33.	23-01-2023	70.92	34.57	29.89	38.56	1.15	2.58	NOT DETECTED		
34.	26-01-2023	79.68	29.72	16.27	24.36	1.14	3.85	NOT DETECTED		
35.	30-01-2023	73.29	32.96	31.36	38.84	1.00	2.14	NOT DETECTED		
36.	02-02-2023	76.38	31.62	18.14	21.28	0.92	3.27	NOT DETECTED		
37.	06-02-2023	88.17	24.29	33.73	43.44	1.00	3.72	NOT DETECTED		
38.	09-02-2023	71.63	31.62	27.38	39.74	1.12	3.86	NOT DETECTED		
39.	13-02-2023	69.74	27.63	21.92	27.53	1.00	2.18	NOT DETECTED		
40.	16-02-2023	85.41	39.84	28.66	32.19	1.17	4.52	NOT DETECTED		
41.	20-02-2023	62.18	36.62	31.39	43.65	0.95	2.18	NOT DETECTED		
42.	23-02-2023	75.37	28.18	19.32	26.17	1.00	4.38	NOT DETECTED		
43.	27-02-2023	83.56	33.69	26.18	37.51	1.16	2.95	NOT DETECTED		
44.	02-03-2023	84.38	26.15	23.89	31.27	1.14	3.57	NOT DETECTED		
45.	06-03-2023	73.81	29.27	26.64	35.86	1	4.13	NOT DETECTED		
46.	09-03-2023	89.64	39.55	34.28	42.46	0.96	4.27	NOT DETECTED		
47.	13-03-2023	82.57	36.39	31.67	37.16	1.15	3.19	NOT DETECTED		

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Nam	e of Location	Near Fire Station	1						
	Date of	Parameter with Results							
Sr. No.	Monitoring	PM <sub>10</sub> μg/m³	PM <sub>2.5</sub> μg/m³	SO <sub>2</sub> μg/m³	NO <sub>2</sub> μg/m³	CO mg/m³	HC μg/m³	Benzene μg/m³	
48.	16-03-2023	89.79	34.18	28.36	35.13	1.12	4.25	NOT DETECTED	
49.	20-03-2023	77.73	39.13	34.88	41.29	1.00	2.69	NOT DETECTED	
50.	23-03-2023	74.52	35.07	23.18	31.44	1.14	3.56	NOT DETECTED	
51.	27-03-2023	85.36	37.48	29.67	34.89	1.1	3.21	NOT DETECTED	
52.	30-03-2023	81.29	41.35	32.58	38.1	1.17	4.24	NOT DETECTED	
Permissible 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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Jaivik S. Tandel (Manager - Operations)

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	Results of Ambient Air Quality Monitoring								
Name	of Location	ADANI PORT – T	UG Berth 600 KL F	Pupm House					
	Date of Monitoring	Parameter with Results							
Sr. No.		PM <sub>10</sub> μg/m <sup>3</sup>	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO₂ μg/m³	NO <sub>2</sub> μg/m³	CO mg/m <sup>3</sup>	HC μg/m³	Benzene μg/m³	
1.	03-10-2022	83.26	32.68	21.38	34.27	1.00	NOT DETECTED	NOT DETECTED	
2.	06-10-2022	79.54	36.82	26.32	34.86	1.12	NOT DETECTED	NOT DETECTED	
3.	10-10-2022	88.31	33.96	28.64	34.72	1.00	NOT DETECTED	NOT DETECTED	
4.	13-10-2022	78.47	29.81	29.94	41.65	0.95	NOT DETECTED	NOT DETECTED	
5.	17-10-2022	83.27	27.38	32.16	39.89	1.00	NOT DETECTED	NOT DETECTED	
6.	20-10-2022	82.86	36.32	24.28	27.13	1.15	NOT DETECTED	NOT DETECTED	
7.	27-10-2022	69.89	38.24	31.46	39.03	1.00	NOT DETECTED	NOT DETECTED	
8.	28-10-2022	79.84	27.38	19.24	26.86	0.95	NOT DETECTED	NOT DETECTED	
9.	31-10-2022	81.29	29.17	32.23	37.2	1.00	NOT DETECTED	NOT DETECTED	
10.	03-11-2022	86.78	37.65	22.43	28.25	1.00	2.97	NOT DETECTED	
11.	07-11-2022	83.45	43.45	24.14	30.25	1.09	4.28	NOT DETECTED	
12.	10-11-2022	88.76	44.12	21.34	27.12	1.15	3.16	NOT DETECTED	
13.	14-11-2022	83.45	45.67	25.67	32.45	1.00	6.79	NOT DETECTED	
14.	17-11-2022	80.68	37.83	26.74	33.89	1.12	3.57	NOT DETECTED	
15.	21-11-2022	84.21	36.46	22.35	28.95	0.95	2.86	NOT DETECTED	

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Nam	e of Location	ADANI PORT – TUG Berth 600 KL Pupm House								
	Date of		Parameter with Results							
Sr. No.	Monitoring	PM <sub>10</sub> μg/m <sup>3</sup>	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO <sub>2</sub> μg/m³	NO₂ μg/m³	CO mg/m³	HC μg/m³	Benzene μg/m³		
16.	24-11-2022	86.53	43.15	27.69	35.15	1.00	3.29	NOT DETECTED		
17.	28-11-2022	83.24	40.15	22.45	27.86	0.94	4.69	NOT DETECTED		
18.	01-12-2022	72.18	31.63	28.46	35.27	1.15	3.14	NOT DETECTED		
19.	05-12-2022	85.42	37.89	21.75	32.84	1.00	3.28	NOT DETECTED		
20.	08-12-2022	83.81	41.52	26.34	38.91	1.00	2.68	NOT DETECTED		
21.	12-12-2022	88.57	37.6	29.49	31.06	1.17	4.52	NOT DETECTED		
22.	15-12-2022	86.77	34.28	19.96	26.43	0.94	2.16	NOT DETECTED		
23.	19-12-2022	76.23	46.16	27.28	37.67	1.13	4.66	NOT DETECTED		
24.	22-12-2022	82.94	38.58	32.13	39.64	1.00	2.79	NOT DETECTED		
25.	26-12-2022	86.41	34.24	28.44	34.59	1.15	3.83	NOT DETECTED		
26.	29-12-2022	79.67	36.79	23.46	31.37	1.00	2.65	NOT DETECTED		
27.	02-01-2023	66.17	36.24	21.45	32.19	1.12	2.37	NOT DETECTED		
28.	05-01-2023	79.46	27.52	16.38	28.74	1.00	2.96	NOT DETECTED		
29.	09-01-2023	74.61	36.74	29.64	36.78	1.15	3.17	NOT DETECTED		
30.	12-01-2023	76.24	32.82	24.79	39.83	1.00	2.68	NOT DETECTED		
31.	16-01-2023	82.47	27.17	27.54	19.99	1.00	4.27	NOT DETECTED		

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Name	e of Location	ADANI PORT – T	UG Berth 600 KL	Pupm House						
	Date of	Parameter with Results								
Sr. No.	Monitoring	PM <sub>10</sub> μg/m <sup>3</sup>	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO <sub>2</sub> μg/m <sup>3</sup>	NO <sub>2</sub> μg/m³	CO mg/m <sup>3</sup>	HC μg/m³	Benzene μg/m³		
32.	19-01-2023	78.52	39.36	26.17	28.14	1.15	3.95	NOT DETECTED		
33.	23-01-2023	85.35	31.24	24.39	31.57	1.12	4.68	NOT DETECTED		
34.	26-01-2023	78.31	38.57	26.73	33.87	1.00	2.52	NOT DETECTED		
35.	30-01-2023	87.49	29.63	25.44	36.26	1.17	3.47	NOT DETECTED		
36.	02-02-2023	83.26	31.59	16.72	24.14	1.15	3.62	NOT DETECTED		
37.	06-02-2023	86.72	37.52	28.68	36.89	0.95	3.79	NOT DETECTED		
38.	09-02-2023	67.38	44.74	34.54	41.38	1.00	4.62	NOT DETECTED		
39.	13-02-2023	75.18	38.57	29.84	37.49	1.14	3.96	NOT DETECTED		
40.	16-02-2023	81.38	36.62	26.81	29.75	1.00	2.85	NOT DETECTED		
41.	20-02-2023	80.32	31.28	33.49	38.16	1.13	2.59	NOT DETECTED		
42.	23-02-2023	74.91	37.26	28.81	36.57	0.97	3.66	NOT DETECTED		
43.	27-02-2023	87.74	35.96	31.63	38.27	1.00	3.74	NOT DETECTED		
44.	02-03-2023	70.69	42.58	23.34	29.75	1.00	3.88	NOT DETECTED		
45.	06-03-2023	87.43	44.51	32.74	39.46	1.14	4.15	NOT DETECTED		
46.	09-03-2023	76.57	37.59	28.17	34.15	1.12	4.86	NOT DETECTED		
47.	13-03-2023	72.45	34.21	31.42	38.76	1.00	2.98	NOT DETECTED		

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Name	e of Location	ADANI PORT – TUG Berth 600 KL Pupm House							
	Date of	Parameter with Results							
Sr. No.	Monitoring	PM <sub>10</sub> μg/m³	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO₂ μg/m³	NO <sub>2</sub> μg/m <sup>3</sup>	CO mg/m³	HC μg/m³	Benzene μg/m³	
48.	16-03-2023	78.82	39.76	29.57	32.56	1.12	3.12	NOT DETECTED	
49.	20-03-2023	87.05	42.95	32.47	41.2	1.15	3.26	NOT DETECTED	
50.	23-03-2023	85.26	34.18	30.88	38.65	1.00	4.62	NOT DETECTED	
51.	27-03-2023	74.24	38.65	29.74	34.71	1.13	4.42	NOT DETECTED	
52.	30-03-2023	83.28	32.41	24.25	29.48	1.15	3.78	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	

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			Results of A	mbient Air Qua	lity Monitoring				
Name	of Location	PUB / Adani Hou	ıse						
	Date of Monitoring	Parameter with Results							
Sr. No.		PM <sub>10</sub> μg/m³	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO <sub>2</sub> μg/m³	NO <sub>2</sub> μg/m³	CO mg/m³	HC μg/m³	Benzene μg/m³	
1.	03-10-2022	79.37	28.34	17.38	26.86	0.92	NOT DETECTED	NOT DETECTED	
2.	06-10-2022	83.47	36.86	19.63	23.26	1.15	NOT DETECTED	NOT DETECTED	
3.	10-10-2022	82.38	32.12	17.88	29.10	1.00	NOT DETECTED	NOT DETECTED	
4.	13-10-2022	73.48	29.73	18.39	26.24	1.12	NOT DETECTED	NOT DETECTED	
5.	17-10-2022	84.32	26.46	24.96	31.82	1.00	NOT DETECTED	NOT DETECTED	
6.	20-10-2022	88.74	37.94	23.58	29.39	1.10	NOT DETECTED	NOT DETECTED	
7.	27-10-2022	75.93	23.63	29.34	37.43	0.96	NOT DETECTED	NOT DETECTED	
8.	28-10-2022	81.29	32.45	22.25	31.98	1.13	NOT DETECTED	NOT DETECTED	
9.	31-10-2022	78.64	39.41	31.48	38.71	1.00	NOT DETECTED	NOT DETECTED	
10.	03-11-2022	83.21	27.43	11.24	16.78	1.00	4.72	NOT DETECTED	
11.	07-11-2022	78.23	21.25	14.78	20.15	1.15	3.29	NOT DETECTED	
12.	10-11-2022	65.78	31.16	17.89	24.56	0.94	5.63	NOT DETECTED	
13.	14-11-2022	77.58	22.47	23.45	31.36	1.00	5.09	NOT DETECTED	
14.	17-11-2022	81.24	26.28	26.78	30.15	1.00	4.37	NOT DETECTED	
15.	21-11-2022	83.45	34.56	23.10	28.15	1.15	4.86	NOT DETECTED	

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Nam	e of Location	PUB / Adani Ho	use							
	Date of	Parameter with Results								
Sr. No.	Monitoring	PM <sub>10</sub> μg/m <sup>3</sup>	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO <sub>2</sub> μg/m <sup>3</sup>	NO <sub>2</sub> μg/m³	CO mg/m <sup>3</sup>	HC μg/m³	Benzene μg/m³		
16.	24-11-2022	73.45	28.51	22.45	27.14	0.95	2.98	NOT DETECTED		
17.	28-11-2022	80.12	23.83	19.25	22.53	1.00	4.12	NOT DETECTED		
18.	01-12-2022	84.42	23.57	16.38	26.47	1.16	3.72	NOT DETECTED		
19.	05-12-2022	68.54	21.75	19.43	25.79	1.00	4.76	NOT DETECTED		
20.	08-12-2022	82.71	24.17	26.19	34.27	1.10	4.88	NOT DETECTED		
21.	12-12-2022	76.83	29.96	28.77	37.36	1.13	4.26	NOT DETECTED		
22.	15-12-2022	86.53	32.78	21.91	27.52	1.00	3.57	NOT DETECTED		
23.	19-12-2022	83.36	31.26	27.62	33.13	1.16	3.72	NOT DETECTED		
24.	22-12-2022	79.16	34.04	25.12	31.98	1.00	3.14	NOT DETECTED		
25.	26-12-2022	73.58	29.36	22.65	29.07	1.00	3.64	NOT DETECTED		
26.	29-12-2022	85.63	36.42	26.83	36.17	1.15	4.12	NOT DETECTED		
27.	02-01-2023	72.36	29.62	13.28	31.34	1.00	2.96	NOT DETECTED		
28.	05-01-2023	84.27	24.38	26.73	34.86	1.12	3.59	NOT DETECTED		
29.	09-01-2023	81.63	27.47	17.38	26.47	1.00	3.26	NOT DETECTED		
30.	12-01-2023	75.38	37.24	26.77	32.14	1.00	4.83	NOT DETECTED		
31.	16-01-2023	87.31	26.48	16.64	27.92	1.15	4.89	NOT DETECTED		

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Name	e of Location	PUB / Adani Ho	use							
	Date of	Parameter with Results								
Sr. No.	Monitoring	PM <sub>10</sub> μg/m <sup>3</sup>	PM <sub>2.5</sub> μg/m <sup>3</sup>	SO <sub>2</sub> μg/m³	NO <sub>2</sub> μg/m <sup>3</sup>	CO mg/m <sup>3</sup>	HC μg/m³	Benzene μg/m³		
32.	19-01-2023	64.38	39.63	21.94	31.23	1.13	3.26	NOT DETECTED		
33.	23-01-2023	73.29	32.47	29.58	38.96	1.17	2.13	NOT DETECTED		
34.	26-01-2023	69.04	36.72	26.16	37.53	1.13	2.79	NOT DETECTED		
35.	30-01-2023	84.27	27.84	18.24	26.48	1.12	3.74	NOT DETECTED		
36.	02-02-2023	89.28	34.79	23.85	27.13	1.17	4.83	NOT DETECTED		
37.	06-02-2023	73.59	29.82	21.29	29.75	1.00	2.37	NOT DETECTED		
38.	09-02-2023	86.27	39.84	32.06	43.27	1.17	4.72	NOT DETECTED		
39.	13-02-2023	77.33	32.61	31.29	37.55	0.95	2.79	NOT DETECTED		
40.	16-02-2023	76.52	31.28	24.66	31.74	1.00	3.16	NOT DETECTED		
41.	20-02-2023	63.38	34.39	28.17	37.93	1.00	4.33	NOT DETECTED		
42.	23-02-2023	88.56	41.39	23.72	33.84	1.15	3.69	NOT DETECTED		
43.	27-02-2023	73.41	38.69	31.43	36.16	1.00	3.48	NOT DETECTED		
44.	02-03-2023	75.41	40.62	27.17	34.29	0.95	4.03	NOT DETECTED		
45.	06-03-2023	86.36	36.17	25.74	31.58	0.98	3.12	NOT DETECTED		
46.	09-03-2023	78.72	32.96	24.68	28.49	1.14	4.18	NOT DETECTED		
47.	13-03-2023	74.17	41.22	28.54	35.25	1.12	2.96	NOT DETECTED		

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Name	e of Location	PUB / Adani Hou	se						
	Date of	Parameter with Results							
Sr. No.	Monitoring	PM <sub>10</sub> μg/m <sup>3</sup>	PM <sub>2.5</sub> μg/m³	SO <sub>2</sub> μg/m³	NO <sub>2</sub> μg/m <sup>3</sup>	CO mg/m³	HC μg/m³	Benzene μg/m³	
48.	16-03-2023	84.23	36.71	28.16	34.86	1.00	3.55	NOT DETECTED	
49.	20-03-2023	88.98	42.58	31.32	39.13	1.12	3.75	NOT DETECTED	
50.	23-03-2023	76.63	35.93	29.65	36.29	1.00	4.25	NOT DETECTED	
51.	27-03-2023	86.24	31.47	26.96	31.83	1.14	3.38	NOT DETECTED	
52.	30-03-2023	89.58	38.25	19.63	25.58	1.11	3.15	NOT DETECTED	
	ble Value as per IAAQMS	100.0	60.0	80.0	80.0	2.0		5.0	
Tes	st Method	IS - 5182, Part- 23	UERL/AIR/ SOP/11	IS - 5182, Part - 2	IS - 5182, Part - 6	IS - 5182, Part - 10	Gas analyzer	IS - 5182, Part - 11	

A

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			Results of No	oise Level Monitoring			
L	ocation Name	CT3 RMU-2					
Sr. No.	Sampling Date and			Noise Level Leq. d	-	I	T
	Time	13-10-2022	14-11-2022	12-12-2022	12-01-2023	13-02-2023	13-03-2023
1	06:00 to 07:00	63.4	62.8	61.2	59.9	61.9	64.6
2	07:00 to 08:00	66.9	68.5	63.8	61.4	68.5	68.2
3	08:00 to 09:00	63.2	67.4	62.8	68.6	64.7	66.7
4	09:00 to 10:00	69.6	64.7	64.3	65.5	62.1	64.9
5	10:00 to 11:00	61.2	64.1	68.5	66.1	67.5	63.6
6	11:00 to 12:00	67.4	68.9	69.1	69.1	65.7	64.2
7	12:00 to 13:00	68.8	67.1	64.2	64.2	62.4	64.9
8	13:00 to 14:00	67.5	68.3	66.9	68.3	69.0	68.7
9	14:00 to 15:00	65.2	64.2	63.6	63.6	64.2	63.6
10	15:00 to 16:00	69.5	62.3	64.2	62.6	62.3	61.9
11	16:00 to 17:00	65.5	69.4	63.9	63.9	68.6	68.4
12	17:00 to 18:00	68.2	61.2	66.8	62.9	61.2	67.4
13	18:00 to 19:00	68.7	68.4	64.4	63.7	67.2	63.4
14	19:00 to 20:00	65.5	65.5	63.6	62.2	65.5	62.7
15	20:00 to 21:00	60.7	65.4	65.4	65.4	63.4	60.5
16	21:00 to 22:00	62.9	64.8	63.1	62.7	64.7	63.8
	Day Time			<75 dE	3 (A)		

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Lo	ocation Name	CT3 RMU-2								
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) – Night Time								
31. NO.	Time	13-10-2022	14-11-2022	12-12-2022	12-01-2023	13-02-2023	13-03-2023			
1	22:00 to 23:00	62.4	59.2	59.6	59.0	60.3	62.4			
2	23:00 to 24:00	63.1	62.5	60.3	60.8	61.3	60.5			
3	24:00 to 01:00	57.5	61.2	63.2	62.2	61.2	58.5			
4	01:00 to 02:00	61.1	57.9	61.7	60.8	57.4	59.3			
5	02:00 to 03:00	62.7	57.4	62.1	62.1	58.3	56.8			
6	03:00 to 04:00	60.9	60.2	60.4	60.4	61.9	60.9			
7	04:00 to 05:00	58.4	61.8	64.5	63.1	61.8	62.6			
8	05:00 to 06:00	59.9	63.9	62.5	61.9	58.6	60.7			
	Night Time			<70 di	В (А)					

Test Method	IS: 9989 : 1981
	IS: 9989 : 1981

A

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			Results of N	oise Level Monitoring					
L	ocation Name	Near Fire Station							
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Day Time							
511 1101	Time	06-10-2022	07-11-2022	05-12-2022	05-01-2023	06-02-2023	06-03-2023		
1	06:00 to 07:00	63.5	63.4	62.3	61.4	64.8	61.9		
2	07:00 to 08:00	64.3	67.8	63.6	66.8	61.6	63.6		
3	08:00 to 09:00	66.7	69.3	67.2	65.3	68.4	67.3		
4	09:00 to 10:00	62.8	61.3	63.0	67.5	65.3	66.8		
5	10:00 to 11:00	68.1	65.1	64.4	61.3	68.1	63.2		
6	11:00 to 12:00	63.2	68.3	66.8	62.8	67.2	65.1		
7	12:00 to 13:00	64.2	68.9	65.9	62.9	64.7	67.3		
8	13:00 to 14:00	66.9	66.7	63.5	61.4	68.3	68.1		
9	14:00 to 15:00	61.2	58.7	68.2	66.3	59.7	60.2		
10	15:00 to 16:00	64.8	67.5	62.6	65.7	68.4	65.3		
11	16:00 to 17:00	63.1	66.3	67.9	67.9	67.7	68.3		
12	17:00 to 18:00	60.8	67.1	61.4	64.7	61.0	63.2		
13	18:00 to 19:00	66.9	65.9	66.8	62.4	66.3	67.5		
14	19:00 to 20:00	61.3	64.2	64.2	64.2	65.1	63.9		
15	20:00 to 21:00	63.3	63.2	62.1	64.1	64.8	63.2		
16	21:00 to 22:00	58.7	61.3	61.3	63.6	62.6	64.8		
	Day Time			<75 dE	B (A)				







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Le	ocation Name	Near Fire Station						
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Night Time						
31.140.	Time	06-10-2022	07-11-2022	05-12-2022	05-01-2023	06-02-2023	06-03-2023	
1	22:00 to 23:00	59.2	58.6	60.9	58.4	56.8	54.8	
2	23:00 to 24:00	62.5	57.8	61.3	61.3	58.4	56.6	
3	24:00 to 01:00	62.3	61.2	59.6	59.3	60.2	58.5	
4	01:00 to 02:00	57.9	59.8	61.3	60.2	56.4	57.4	
5	02:00 to 03:00	60.3	60.4	59.8	59.8	57.3	58.4	
6	03:00 to 04:00	62.4	58.6	60.3	61.3	61.3	60.4	
7	04:00 to 05:00	61.5	61.3	59.5	59.5	60.2	58.7	
8	05:00 to 06:00	61.7	59.8	58.6	58.1	59.8	55.2	
	Night Time			<70 di	B (A)			

Test Method	IS: 9989 : 1981
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**GUJARAT** VAPI.

> Jaivik S. Tandel (Manager - Operations)

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			Results of No	oise Level Monitoring	g				
Lo	ocation Name	ADANI PORT – TUG I	Berth 600 KL Pump Ho						
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Day Time							
	Time	10-10-2022	10-11-2022	08-12-2022	09-01-2023	09-02-2023	09-03-2023		
1	06:00 to 07:00	63.8	61.3	59.7	62.3	63.1	62.7		
2	07:00 to 08:00	65.4	65.4	62.7	64.8	64.4	61.3		
3	08:00 to 09:00	61.2	67.3	63.9	61.8	66.3	64.8		
4	09:00 to 10:00	67.4	64.3	63.2	62.3	67.5	68.3		
5	10:00 to 11:00	63.3	68.9	68.6	65.9	67.9	64.7		
6	11:00 to 12:00	68.8	67.3	63.6	68.1	68.4	67.5		
7	12:00 to 13:00	67.2	64.3	68.1	67.4	62.1	64.8		
8	13:00 to 14:00	61.5	67.1	65.4	68.2	68.3	67.2		
9	14:00 to 15:00	67.1	66.2	61.3	65.8	65.3	67.9		
10	15:00 to 16:00	60.4	69.8	64.9	64.9	68.1	66.5		
11	16:00 to 17:00	62.6	68.2	67.4	67.4	67.4	68.3		
12	17:00 to 18:00	68.2	65.3	67.3	64.2	61.7	62.5		
13	18:00 to 19:00	68.1	66.4	66.2	66.2	64.3	66.8		
14	19:00 to 20:00	65.2	61.3	69.7	69.7	63.2	64.1		
15	20:00 to 21:00	64.1	64.3	64.8	64.8	65.8	63.8		
16	21:00 to 22:00	62.3	63.9	63.4	58.4	62.8	60.9		
	Day Time			<75 d	В (А)				

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Lo	ocation Name	Location Name ADANI PORT – TUG Berth 600 KL Pump House							
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Night Time							
Sr. NO.	Time	10-10-2022	10-11-2022	08-12-2022	09-01-2023	09-02-2023	09-03-2023		
1	22:00 to 23:00	60.8	61.4	61.2	61.2	58.5	56.7		
2	23:00 to 24:00	63.5	62.3	61.8	61.8	61.8	60.4		
3	24:00 to 01:00	63.8	56.8	62.3	62.8	56.8	57.2		
4	01:00 to 02:00	62.7	59.5	60.9	60.7	58.5	57.7		
5	02:00 to 03:00	60.6	56.5	60.3	61.4	56.5	58.5		
6	03:00 to 04:00	61.4	58.8	61.5	61.5	57.3	58.5		
7	04:00 to 05:00	58.7	60.7	63.8	64.5	60.7	58.4		
8	05:00 to 06:00	54.7	61.4	62.4	62.7	62.4	59.9		
Day Time <70 dB (A)									

Test Method	IS: 9989 : 1981

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Nikunj D. Patel (Chemist)



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			Results of No	ise Level Monitorin	<u>ug</u>				
L	ocation Name	PUB/Adani House							
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Day Time							
	Time	03-10-2022	03-11-2022	01-12-2022	02-01-2023	02-02-2023	02-03-2023		
1	06:00 to 07:00	62.5	63.8	62.7	61.8	60.6	62.4		
2	07:00 to 08:00	66.1	61.4	64.2	63.5	62.5	61.8		
3	08:00 to 09:00	68.2	58.7	63.1	62.8	60.9	63.7		
4	09:00 to 10:00	62.4	62.6	65.6	62.4	63.2	63.2		
5	10:00 to 11:00	67.8	68.7	64.2	63.4	67.4	64.2		
6	11:00 to 12:00	64.0	63.4	67.9	69.6	65.2	61.8		
7	12:00 to 13:00	61.3	69.7	64.3	65.7	68.9	65.9		
8	13:00 to 14:00	65.9	62.1	63.2	64.2	64.8	63.1		
9	14:00 to 15:00	64.2	62.5	66.5	67.5	63.6	66.3		
10	15:00 to 16:00	63.7	61.8	65.2	67.1	61.8	62.9		
11	16:00 to 17:00	67.0	65.5	64.5	63.8	66.4	64.7		
12	17:00 to 18:00	65.3	64.1	65.1	64.9	67.9	64.3		
13	18:00 to 19:00	69.1	59.2	62.7	63.8	58.2	60.1		
14	19:00 to 20:00	66.7	68.3	61.3	65.4	67.0	63.4		
15	20:00 to 21:00	61.8	63.3	60.2	63.9	61.9	62.7		
16	21:00 to 22:00	60.4	66.3	60.8	62.5	65.3	61.2		
	Day Time			<75 d	IB (A)				



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Lo	ocation Name	PUB/Adani House							
Sr. No.	Sampling Date and	Noise Level Leq. dB(A) - Night Time							
SI. NO.	Time	03-10-2022	03-11-2022	01-12-2022	02-01-2023	02-02-2023	02-03-2023		
1	22:00 to 23:00	63.6	56.3	58.7	60.3	57.3	58.4		
2	23:00 to 24:00	64.2	57.8	61.6	62.3	56.2	54.2		
3	24:00 to 01:00	63.4	54.3	60.7	59.8	54.3	55.7		
4	01:00 to 02:00	64.1	58.6	60.6	60.6	57.4	58.3		
5	02:00 to 03:00	58.6	59.3	59.3	58.1	60.1	59.2		
6	03:00 to 04:00	58.2	55.8	60.5	59.2	56.3	57.9		
7	04:00 to 05:00	64.2	59.2	61.3	60.5	59.2	55.4		
8	05:00 to 06:00	61.3	57.4	62.7	61.3	58.3	57.8		
	Day Time			<70 d	B (A)				

Test Method	IS: 9989 : 1981
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			Resu	Its of Stack M	onitoring			
Sr. No.	Parameter	Unit	Hot Water System-1 (Liquid Terminal)	Hot Water System-2 (Liquid Terminal)	Thermic Fluid Heater (Bitumin-1)	Thermic Fluid Heater (Bitumin-2)	GPCB LIMIT	Method of Test
				Oct-22				
1	Particulate Matter	mg/Nm³	21.19	23.64	23.72	22.96	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO <sub>2</sub>	ppm	6.63	7.24	9.03	9.84	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO <sub>X</sub>	ppm	18.47	23.36	22.38	21.29	50	IS 11255 (Part - 7)
				Nov-22				
1	Particulate Matter	mg/Nm³	22.79	21.44	22.37	21.47	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO2	ppm	7.26	6.63	8.69	8.32	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NOX	ppm	20.19	21.79	21.52	22.16	50	IS 11255 (Part - 7)
				Dec-22				
1	Particulate Matter	mg/Nm³	22.48	22.92	22.89	22.36	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO <sub>2</sub>	ppm	6.84	6.89	9.08	9.16	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NOx	ppm	19.72	22.31	22.14	22.68	50	IS 11255 (Part - 7)
				Jan-23		'		
1	Particulate Matter	mg/Nm³	22.83	23.18	23.48	22.79	150	IS 11255 (Part - 1)
2	Sulphur Dioxide as SO <sub>2</sub>	ppm	7.12	7.13	9.83	9.58	100	IS 11255 (Part - 2)
3	Oxides of Nitrogen as NO <sub>X</sub>	ppm	21.26	22.58	22.94	23.13	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	
	Feb-23								
1	Particulate Matter	mg/Nm³	21.36	22.39	21.72	19.79	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO <sub>2</sub>	ppm	6.27	7.58	8.36	8.68	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NO <sub>X</sub>	ppm	19.89	22.94	20.52	21.56	50	IS 11255 (Part - 7)	
				Mar-23					
1	Particulate Matter	mg/Nm³	21.14	21.85	19.38	18.78	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO <sub>2</sub>	ppm	6.58	7.32	8.14	7.46	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NO <sub>x</sub>	ppm	20.36	22.58	19.69	20.83	50	IS 11255 (Part - 7)	

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			R	esults of Stack Mo	onitoring				
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 LIMIT	Method of Test	
No.			Mar-23		Feb-23		LIIVIII		
			17-03-2023	03-02-2023	03-02-2023	03-02-2023			
1	Particulate Matter	mg/Nm³	22.48	13.49	17.28	14.96	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO <sub>2</sub>	ppm	8.26	9.84	13.63	13.37	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NO <sub>X</sub>	ppm	17.85	21.69	24.71	17.81	50	IS 11255 (Part - 7)	
4	Carbon Monoxide	mg/Nm3	3.27	4.6	4.8	4.2		UERL/AIR/SOP/18	
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected		UERL/AIR/SOP/27	
Sr. No.	Parameter	Parameter Unit		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	
INO.				Feb-23		Dec-22	LIIVIII	Method of Test	
			01-02-2023	01-02-2023	01-02-2023	18-12-2022			
1	Particulate Matter	mg/Nm³	19.27	22.39	19.36	18.73	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO <sub>2</sub>	ppm	7.84	8.68	7.73	7.42	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NO <sub>X</sub>	ppm	15.96	19.52	15.24	24.38	50	IS 11255 (Part - 7)	
4	Carbon Monoxide	mg/Nm3	4.13	4.46	3.92	2.69		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	KVA) - DG House -				Method of Test	
			18-12-2022	18-12-2022	18-12-2022	18-12-2022	1		
1	Particulate Matter	mg/Nm³	23.74	21.47	26.68	23.74	150	IS 11255 (Part - 1)	
2	Sulphur Dioxide as SO <sub>2</sub>	ppm	6.84	9.39	8.36	9.37	100	IS 11255 (Part - 2)	
3	Oxides of Nitrogen as NOx	ppm	26.72	27.51	26.64	28.58	50	IS 11255 (Part - 7)	
4	Carbon Monoxide	mg/Nm3	3.26	4.17	4.79	4.15		UERL/AIR/SOP/18	
5	Non Methyl Hydro Carbon	ppm	Not Detected	Not Detected	Not Detected	Not Detected		UERL/AIR/SOP/27	

A

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#### **RESULTS OF BORE HOLE WATER**

SR.NO.	TEST PARAMETERS	UNIT	Pump House-	Pump House- 2	Pump House-	Near Unloading bays	Near ETP	TEST METHOD
1.	pH @ 25 ° C		<b>14-02-2023</b> 8.11	<b>14-02-2023</b> 7.78	<b>14-02-2023</b> 7.89	<b>14-02-2023</b> 7.98	<b>14-02-2023</b> 8.01	IS 3025(Part 11)1983
2.	Salinity	ppt	3.37	1.06	1.81	1.02	7.17	APHA 23 <sup>rd</sup> Ed.,2017,2520 B
3.	Oil & Grease	mg/L	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)	IS 3025(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 <sup>rd</sup> Ed.,2017,3114-C
7.	Nickel as Ni	mg/L	0.076	0.022	0.033	0.015	0.127	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	0.042	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	0.094	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 <sup>rd</sup> Ed.,2017, 3112-B
11.	Zinc as Zn	mg/L	0.102	0.061	BDL(MDL:0.05)	BDL(MDL:0.05)	0.054	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	0.835	0.516	BDL(MDL:0.1)	BDL(MDL:0.1)	0.342	IS 3025(PART 53) 2003
14.	Insecticides/Pesticides	μg/L	Absent	Absent	Absent	Absent	Absent	USEPA 8081 B
15.	Depth of Water Level from Ground Level	meter	1.9	2.1	1.95	2.15	2	

Mr. Nilesh Patel

Sr. Chemist

Hol

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#### **RESULTS OF BORE HOLE WATER**

			Pump House-1	Pump House-2	Pump House-3	Near Unloading bays	Near ETP	
SR.NO.	TEST PARAMETERS	UNIT	04-08-2022	04-08-2022	04-08-2022	04-08-2022	04-08-2022	TEST METHOD
1.	pH @ 25 ° C		8.44	8.02	8.06	7.79	7.6	IS 3025(Part 11)1983
2.	Salinity	ppt	3.4	0.79	0.81	1.12	11.64	APHA 23 <sup>rd</sup> Ed.,2017,2520 B
3.	Oil & Grease	mg/L	BDL	BDL	BDL	BDL	BDL	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	0.064	0.072	0.044	0.034	0.042	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 <sup>rd</sup> Ed.,2017,3114-C
7.	Nickel as Ni	mg/L	0.114	0.101	0.09	0.069	0.105	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	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	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 <sup>rd</sup> Ed.,2017, 3112-B
11.	Zinc as Zn	mg/L	0.132	0.246	0.129	0.122	0.197	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	0.12	0.85	0.79	1.12	0.94	IS 3025(PART 53) 2003
14.	Insecticides/Pesticides	μg/L	Absent	Absent	Absent	Absent	Absent	USEPA 8081 B
15.	Depth of Water Level from Ground Level	meter	1.9	2.1	1.95	2.15	2	

Reses

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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 NO <sub>3</sub>	μmol/L	0.4						
9	Nitrite as NO <sub>2</sub>	μmol/L	0.04						
10	Ammonical Nitrogen as NH₃	μmol/L	0.8						
11	Phosphates as PO <sub>4</sub>	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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	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 March 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		
906238.00							



## **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					

# Annexure – 3





Annual Report 202-23

CSR Kutch

Adani Foundation

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



#### Our Journey by Mr. Rakshit Shah Executive Director APSEZ

The year 2022-23 has passed off with <u>motivation</u> through recognition by ASSOCHEM for health care awards which shows <u>courage</u> to work for the commitment given to the community. It is necessary that sustained growth is achieved at rural level along with the industrial development. This can be made possible by involving more and more people in the rural development programme.

Since beginning, The Adani Foundation Mundra is committed to the cause of the deprived and underprivileged. It has been working relentlessly across 6 Talukas, covering 92 villages, to uplift the lives of more than 60,000 families with a multi-faceted approach.

This year conceded with more streamline and scalable project of Education i.e. Utthan – to enhance primary education of 70 schools of Mundra including 8 High Schools, milestone achievement in Fisherman amenities project by Providing skill and livelihood to 34 fisherfolk youth, 225 Homebiogas with partnership approach with objective to reduce chemical fertilizer usage in seven villages of Mundra , considerable impact created by Mangroves Biodiversity projects and new era defined in agriculture projects i.e. Super Napier, dates offshoots and Dragon Fruit Cultivation

Gram Bharti has proved a benchmark platform for Self help groups at PAN India which is true support with promoting skill & sustainability. Massavie Tree plantation drive "Vriksh Se Vikas" initiated with aim of plantation 1 Lac Trees in Mundra Taluka in upcoming year.

Jyoti ben Tank – one of the best women farmer of Mundra awarded by "Amazing Indian Award by Vice President of India". District Animal Welfare Department recognized Adani Foundation for best contribution during Lumpy outbreak.

The people of Kutch have generously supported the activities carried out by the Adani Group or else this wouldn't have been possible. Their determination, understanding and commitment have strengthened the development even more.

Our Achievement would not be possible without the ultimate support by Mr. Gowda (COO, AF), Mr. V S Gadhvi, Executive Director – AF, Ms. Shilin R Adani (Managing Trustee) and generous faith and passionate support by Dr. (Mrs.) Priti G Adani, Chairperson– 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
- 7. 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 Cementation Limited Lakhpat
- 12. Adani Transmission Limited Mandvi



## ENVIRONMENT SUSTAINABILITY PROJECTS



### **ENVIRONMENT SUSTAINABILITY**

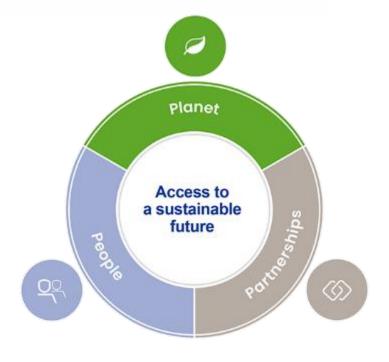
Environmental sustainability is the responsibility to conserve natural resources and protect global ecosystems to support health and wellbeing for present and future. These components are closely interrelated and mutually re-enforcing Under Corporate Environmental responsibility.

To make connections between human actions Environment & biological diversity found within a habitat and/or ecosystem, Adani Foundation executing various Project i.e. massive tree plantation drive, Mangroves, biogas provision, forest development and drip irrigation

Biodiversity conservation: to preserve biodiversity and Natural Resources.

**Regenerative capacity:** Protect the depletion of natural resources and keep the harvest rate of renewable resources within the capacity of regeneration.

Environment Sustainability Projects: Ensuring ecological balance, protection of flora and fauna, terrestrial and coastal spices conservation, welfare, agro forestry, conservation of natural resources and maintaining quality of soil, air and water





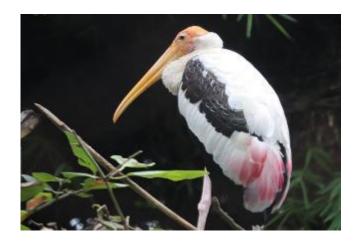


With a vision to Enhance the diversity of mangrove and its associated species in suitable coastal region of Kachchh, which in turn would enhance the faunal diversity and fishery resources of the area by providing suitable habitats and breeding ground. The ultimate aim of the project is to improve overall coastal biodiversity of the region which in turn assist in improving the livelihood of the coastal populace

Total five mangrove species, such as Ceriops, Aegiceras and Rhizophora were selected which in turn enhanced the dependent faunal diversity of the area. Thereby, there will be an increase considerable biodiversity of the area. The initial pilot trails were undertaken in an area of approximately 16 hector during the period between 2019 and 2023 with the active participation of local communities. Current year 4 Hector plantation is in progress which will be resulted in 20 Hector Mangroves Biodiversity Park within one year

S. NO	Mangrove Associate	Life form
1	Suaeda Spp.	Herb
2	Porteresia coarctata	Herb
3	Opuntia elatior	Shrub
4	Sesuvium portulacastrum	Herb
5	Ipomoea biloba	Climber
6	Salvadora persica L.	Shrub
7	Urochondra setulosa	Herb







Home biogas is the Israel based company was founded in 2012 manufactures dynamic biogas unit not only for farm waste but for kitchen waste too. Under Gram Utthan Project, Adani Foundation is supporting home biogas to farmers periphery Villages.

Promotion of Natural Farming-Home biogas And Improving the health and living conditions for the millions of families that are still cooking on charcoal and wood. Adani Foundation is not only supporting but creating awareness to save environment and health of the community who regularly cooking on Chula. It is proven that one hour cooking on Chula is as dangerous as smoking 40 cigrates.

Till date 225 farmers are utilizing it with satisfaction and considerable outcome by saving Average Rs. 23,400 for gas and fertilizer as well with Economic benefit of Rs. 52.65 Lacs.

100 Farmers are linked up with Gobardhan Yojana in which DRDA is providing Biogas with Rs. 5000 Contribution. Adani Foundation has worked as a facilitator between DRDA and Beneficiaries farmers in filling and submission of forms. Total 325 farmers are supported with Biogas as sustainable environment protection



**4,176** TONS OF ANIMAL MANURE TREATED

359,687 HOURS OF CLEAN COOKING; 9.3 TONS OF BIOGAS CREATED **325** TONS OF FIREWOOD REPLACED:

47,375 HOURS SAVED ON REDUCTION OF FIREWOOD & COLLECTION 1225 TONS CO2 EMISSION REDUCTION



Reducing organic waste + Transitioning to renewable energy + Motivation for reduction in use for fertilizer

#### 5. Water Conservation Project - CSR

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 in coastal belt of Mundra as per Government Figures. Our water conservation work is as Below.

- Large number of water harvesting structure (18 Nos. of check dams in coordination with salinity department) and Augmentation of 3 check dams
- Ground recharge activities (pond deepening work for 61 ponds) individually and 26 ponds under Sujlam Suflam Jal Abhiyan were built leading to a significant increase in water table and higher returns to the farmers
- New Pond Deepening Under Ajadi ka Amrut Mahotsav done in Goyarsama village. Approx Deepening Capacity is 12000 Cum.
- Roof Top Rain Water Harvesting 145
   Nos. (40 Nos current year) which is

- having 10,000 litre storage which is sufficient for one year drinking water purpose for 5 people family.
- Recharge Bore well 208 Nos which is best ever option to direct recharge the soil
- Drip Irrigation approx. 1505 Farmers benefitted in coordination with Gujrat Green Revolution Company till date
- Bund construction on way of Nagmati River could save more than 575 MCFT water quantity which recharged in ground due to which bore well depth decreased by 50-100 Ft in Zarpara, Bhujpur and Navinal Vadi Vistar.
- Check dam gate valve construction at Bhujpur which controlled more than 350 MCFT water to go into sea and get recharged current year.
- Pond Pipe line work at Prasla Vistar Zarpara which increase recharge capacity more than 25% in 100 hector area.





#### Impact

- 218500 men, women, children, and elderly impacted by this initiative.
- Total Dissolved Solids (TDS) in the ground water down by 16.7%.
- Ground water table up by 4.2 ft. over the last 5 years.
- In four villages water levels have increased by 15-20 ft. through borewell recharging facility
- Storage capacities of check dams and ponds increased by 106.44 MCFT. Total area benefited 2857 hectors.
- Annually 10000 Liters of water saved and up to INR 10000 saved per family.
- 80% reduction in money spent on labour.
- Up to 20% less money spent on electricity bills.
- 50% less water used as compared to conventional methods.
- Potable water available at doorstep. Earlier on an average women used to walk 1.3 kms to fetch water.
- On an average there has been up to 25% decrease in expenses on healthcare.
- Water availability has also ensured safety, security and overall wellbeing of women and children in the area.
- Initiatives and efforts made under water projects by Adani Foundation continues to provides sustainable solutions for community for their improved farming and ease of living.



# Water conservation and Management

Process Flow for Rooftop Rain Water Harvesting System



Social Survey & TDS mapping





Impact

- Portable water at door step
- Cost saving for portable water
- Improved water quality with
- Creates water conservation awareness in rural community
- Improves standard of living of rural community

Total RRWHS:- 145

RRWHS Constructed in 2022-23:- 40

Population Impacted :- 500+

Savings per household :- 10000+

## TDS difference between Ground water and RRWHS water



#### 6. Tree Plantation

Till the date 70,540 Tree have been planted at various Public places, Schools, GP and crematorium with their responsibility to nurture and maintain regularly.

For this passionate work our team Member Mr. Karshan Gadhvi was Felicited with Van Mitra Award by Forest department and GOG.

Adani Foundation has planted 1100+ fruit bearing trees at Bhujpur and 2100+ neem, pipal and native spices at Dhrub in coordination with District Forest Department and community with partnership approach







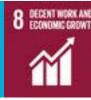






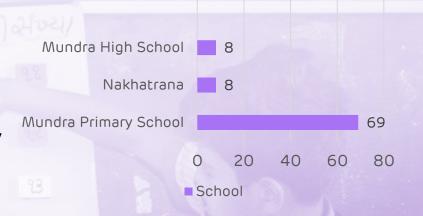






Utthan Schools in Kutch

The Adani Foundation set out an innovative intervention in year 2018–19 through project Utthan to improve students' learning capabilities, provide facilities to schools to improve environment and achieve better learning outcomes at the grassroots level with the help of Utthan sahayak. This extensive intervention involves adopting government primary schools, tutoring Priya Vidyarthi's (progressive learners), introducing English as a Third Language, with various academic activities as well co-curriculum activities to end the dropout rates, and working together for staff capacity building. In order to improve children' basic literacy and numeracy skills, it has also engaged the help of educators and parents, especially mothers.



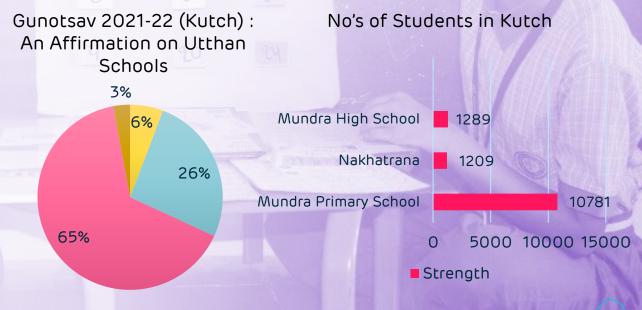
#### Key Aspect of Project Utthan

- ✓ Adopting government primary schools.
- ✓ Main streaming Progressive learners
- ✓ Enhancing Learning Outcomes
- ✓ Arresting dropout rates
- ✓ Introducing English as a Third Language
- ✓ Enabling Joyful Learning Spaces
- ✓ Collaborating for teachers' capacity building

Gunotsav is a quality enhancement initiative of the Government of Gujarat for bringing about improvement in learning levels of students at Elementary level

Assessment is based on four core areas :

- ✓ Teaching learning outcomes
- ✓ School management
- ✓ Co-Scholastic activities
- ✓ Usage of resources.



A+ A B C





Conduct baseline assessment of 7034 Students, 3364 Students were progressive learner, 1403 Students mainstreamed.

Location	Total Strength	Baseline Assessment	Progressive learner	Mainstream Students
Mundra	10799	6047	3029	1247
Nakhatrana	1267	987	335	156

Facilitating English from Classes 1-4: 7500 + are taking the advantage of this intervention.

#### **Cultivating Reading Culture**

Introduced DEAR (Drop Everything and Read) period on every first and third Saturdays for an hour; Library activities on every Second & fourth Saturdays.



Year 2020-21	22890 books
Year 2021-22	60780 books
Year 2022-23	110205 books



#### IT on Wheels : 2 Dedicative Van, 55 Laptops Empowering 2620 Students of 5-8 Std. In Gujarat

IT on wheel program is run to teach them basic emphasizes elementary school digital literacy. In early schooling is the first step to addressing access disparities in this evolving digital environment which is not feasible for rural students. Customize basic syllabus impede their development.

## Day Celebration every Month: Summer Camp & Diwali Mela in Vacation

Every month Utthan sahayak celebrates day in which encourage students to

participate in co-curriculum Activity which create opportunity to learn and experience new things. Also planned 15 days Summer camp & 10 days Diwali mela during vacation. 2800+ students participated with more than 4000 handmade traditional products, 3500+ footfalls during exhibition cum sale. Diwali mela attracted 7363 students. That included 12 Activities, 28529 Total Expenses &, 37529 earn students. Sarpanch, SMC members, Mothers, and Parents all take part enthusiastically.

#### Competitive exam Preparation

Location	JNV	NMMS	PSE
Mundra	227	324	347
Nakhatrana	23	48	48

## 500+ Mothers meet with 11000+ Mothers

Every month, on the Fourth Saturday, Utthan Sahayaks conduct Mothers meets. A child grows a most during the first few years of school, when both the mother and the teacher are crucial in developing their character and personality. Many of the kids are first-generation learners with uneducated parents; in these circumstances, Mother's Meet encourages mothers and teachers in working together to support the education of the child. Also, mothers get a sense of empowerment and value and regularly updates on school activities. Recreational activities during the meeting add an element of surprise and rejuvenation among the Mothers.



#### International School Library Month (ISLM)

ISLM (International School Library Month) was celebrated by 69 Utthan schools. And school from Russia joined with us in zoom to engage under the virtual connection around the world.

Students from Samaghogha School No.1 performed Garba, while students from Vandh school gave information about library activities. Bookmarks' & Digital bookmarks were distributed with partner schools. This is continuing, 3<sup>rd</sup> time Utthan schools participated in ISLM.

## Signed MoU with 18 more Government Primary Schools at Mundra

## Signed MoU with 8 Government High Schools: 8 Village 8 High Schools, 2 Adani Education Evening Center

To overcome challenges of High schools and improve the quality of education, Utthan appointed 2 Utthan sahayak at High schools. 1 for Science/Math's & 1 for English as most of the students facing problems in this subjects. Utthan organized a Parents Teachers Meeting at 8 schools in 8 villages, there were over 450 parents gathered.

After school, children get the opportunity to study at three levels at the Adani Education Evening Center. (AEEC) Remedialcoaching.



Project Title	Participation of Utthan School	Partner Schools	Partner Countries
Bookmark	51	63	08
Digital Bookmark	37	78	10
Virtual Connectio n Around the World	10	10	09
Total	98	151	27

#### Utthan's outreach strategies to Increase children's learning

- Project Utthan has been studied and selected as 'University Practice Connect' by Azim Premji University, Bengaluru.
- ✓ Project is in alignment with NIPUN Bharat (National Initiative for Proficiency in Reading with Understanding and Numeracy Bharat Program) & FLN (Foundational Literacy & Numeracy)
- ✓ Navneet e-Sense software updated in all schools.
- ✓ 100 hours capacity building programs for Utthan sahayak and school Teachers. specially focusing on Foundational Literacy and Numeracy. Utthan sahayak attend CBP (Capacity building program) once in every month.
- ✓ 100% participation in 100 days reading campaign.

- ✓ Google Map : All Utthan schools added in Google map. Utthan sahayak upload photos continuously. that's uploaded Photos got 200k+ views.
- ✓ Utthan sahayak create content for Reading, Writing & Numeracy.
- ✓ Utthan sahayak create 150 Worksheets on Yoga In the run-up to India's 75th Independence day celebrated across India's Azadi Ka Amrit Mahotsav. The tour covers 75 heritage, tourist and archaeological sites and landmark architectural sites across Gujarat.
- Utthan Sahayak, Hetalba Vaghela encouraged students from Mokha Primary School to write the story. Saptahik Phulwadi, Ahemdabad published the story written by student.
- ✓ TLM, Sports, Music & Science kit distributed to create joyful

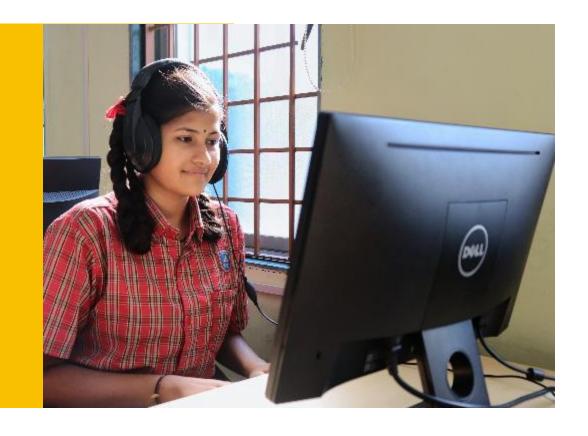
environment.

- Inter school competition organized to encourage physical activity & develop talent.
- ✓ Utthan sahayak encouraged & trained students in various competition organized by GoG.



### **EDUCATION PROJECT**

#### Adani Vidya Mandir, Bhadreshwar



EDUCATION: FREE AND COMPULSORY - vision of Adani Foundation to provide cost-free education, food, uniform, books to the children of economically challenged families of Mundra Bock. Adani Vidya Mandir, Bhadreshwar was established in June 2012, with aim of uplifting the communities through education. The school is equipped with excellent infrastructure and resources required for all-round development of the student. The child is given admission in class 1 and is molded to be an educated and a good human being by experienced and compassionate teachers. The school follows a curriculum designed by GSEB. 507 underprivileged students of Fisherman & Maldhari communities from 8 villages benefitted costfree education at the school

Teachers Day Celebration with facilitation of all teachers and awarded 5 best teachers in academics. District Education Officer Mr. Prajapati graced the occasion and motivated the staff.

### ADANI VIDYA MANDIR, BHADRESHWAR



milestone achievement of Adani Vidya Mandir Bhadreshwar Gujrat Board Standard 10<sup>th</sup> Examination Result is 100%.

- The grand celebration of the year 2022-23 at AVMB was Shri Gautam Adani sir's Birthday.
- Promoting the harmony across all communities, Special Assemblies are conducted on a regular basis where all the Festivals irrespective of the religion & following are fondly celebrated.
- Periodical assessments and evaluations are conducted for the students and their progress are informed to the parents frequently.



Adani Vidya Mandir Bhadreshwar 2021-22 (10 <sup>th</sup> Board)				
NO	GRADE	STUDENTS		
1	Above 80 %	3		
2	60-80%	18		
3	40-60%	10		
	TOTAL	31		
	Result	100%		

#### PROJECT UDAAN

**Vision**: To create a pool of inspired young mind **Mission**: To motivate young students to dream big



**6204**Total No. of Visit

400577

Total No. of participants

**10,000+**Positive

Feedbacks

Mementos received

**100+** 

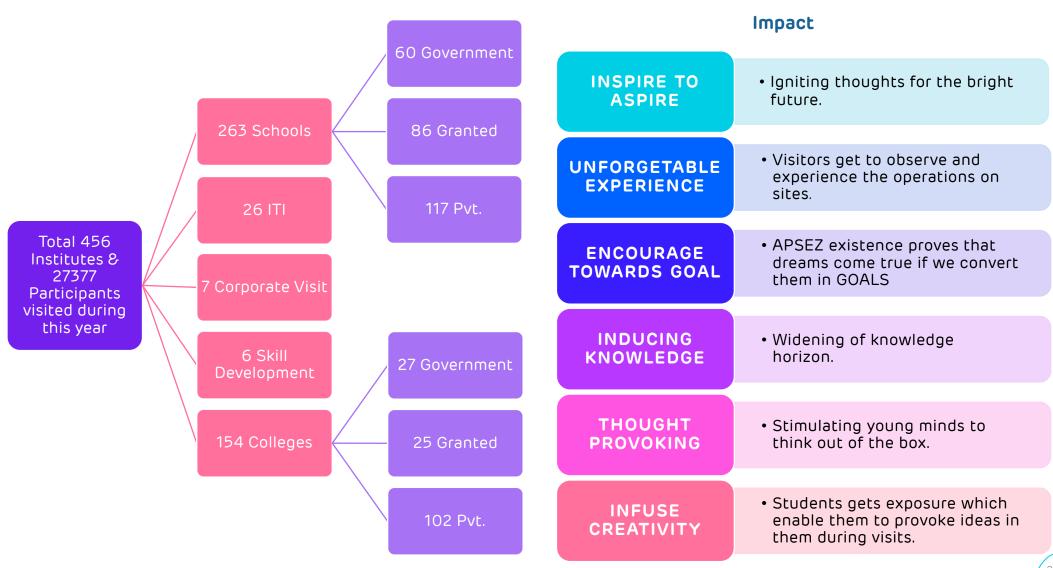
55+ Certificates received Udaan is a special project inspired by the life changing story of Mr. Gautam Adani. As a child, he had visited the Kandla port in Gujarat, and after looking at the expanse of the port, he dreamt of having his own port one day. The rest is history. Under this project exposure tours are organized where school students are given a chance to visit the Adani Group facilities such as Adani Port, Adani Power and Adani Wilmar refinery at Mundra to get an insight into the large-scale business operations and thus get inspired to dream big in life. The exercise stimulates the young minds to dream big and help them become entrepreneurs, innovators and achievers of tomorrow, and thus play an active role in the process of nation building

Adani Foundation, Udaan Project invited the members of self-finance School Association, Gujarat for an exposure visit. 90 participants were facilitated with extraordinary experience of Port, Power, Wilmar and Solar plants visit.

Under Project Udaan total revenue generation is Rs.218.77 lacs.

### PROJECT UDAAN

### **Dashboard** Sustainable project revenue generated





#### The Pashudhan & Preventive Health care management

Program is a revolutionary initiative by Adani Foundation to provide support and aid to farmers in managing their cattle's health and nutrition needs. The program aims to bring about a positive change in the lives of farmers of Mundra, who heavily rely on their livestock for income and sustenance.

One of the key components of the Pashudhan Program is providing fodder support to farmers, especially during periods of drought or crop failure. Adani Foundation provides good Quality of dry and green fodder which covered 14116 Cattle of 24 Villages / 3008 farmers. This Program help them to feed their cattle with good quality of fodder that meets all nutritional requirements which increase the productivity of livestock and improve their overall health. In turn, this has resulted in increased income for farmers and improved food security for families.

In addition to this, we also focuses on farmers training for effective cattle health management techniques and Vaccination Drive as prevention measures.





#### **Grass Land development**

AF converted 205 acres of denuded village common pastureland (gauchar) into fertile and productive grassland in Zarpara and siracha village to transform into Fodder Sustain village with Community participation and responsibility for maintain and Monitoring.

Among that 18 Acre of Guchar land is fenced and sowed with Multispecies Green Fodder with Having Good nutritive value. More than 2250 Cattle will sustain with Improving quality and Quantity Of Milk.

Average 2450 cattle get benefitted by green fodder for 72 days —which increase 0.5 litre milk quantity of 50% cattle.

(1225 cattle x 0.5-liter milk quantity Increase x 40 INR per liter=Rs.1592000).

Apart that Open grazing Benefit save farmer cost to purchase Fodder .(2450 cattle x 7kg /Day X 72 Days = Rs. 37,04,400 (Rs. 3 per kg)

#### This Intervention could save Rs.52,96,400.00

It would be highlighted as best Demonstration and replicate in the other villages as sustainable fodder development project.

#### Individual Fodder Cultivation

Farmers were Aware ,Convince and trained to cultivate super Napier Grass- as on farm projects to reduce their Fodder Dependency and expense. its update Varity of grass and Can be harvested three time in year with Good growth and Nutritive Value. With that effort 192 farmers have Adopted and Cultivated Super NAPIER Grass in 190-acre area and produce 3800 Fodder Tonnes Yield annually, lead to save Approx. Rs.52 Lacs of farmers.



## SUSTAINABLE LIVELIHOOD

DEVELOPMENT

#### Cattle health camp

Adani Foundation and Animal Husbandry department Veterinary Jointly organizing cattle health Awareness and vaccination programs in 24 Villages of our periphery villages. A cattle health camp typically involves a team of Government veterinary Doctor who provide check-ups and treatments for common ailments and remaining Medicines and Vaccine was provided by AF

Program is very effective to maintaining the optimal health of livestock and help to protect the cattle from deadly diseases such as Foot-and-Mouth Disease (FMD) and Clostridial infections. The vaccines used in these programs are specifically designed to provide long-lasting immunity against specific diseases, ensuring that the animals remain healthy even in harsh environmental conditions.

## Total 17299 cattle of 19 Villages had benefitted With different kind of medicines and vaccines.

Apart that 973 camels kharai camels were vaccinated with fitodas and Antisaras in the Phulai-Chhari Dhandh area of Nakhtrana taluka.



#### Lumpy Disease Vaccination Drive.

An effective and Immediate step was taken to Mitigate lumpy Skin disease outbreak in the Kutch In co-ordination of District Animal Husbandry department through Vaccination and awareness drive at grass Root level. Total 40,000+ cattle were covered through therapeutic and ayurvedic treatment and Nutritive Cattle feed Support.

**Bovine brucellosis** is a chronic infectious disease of cattle that causes abortion, the birth of weak or dead calves, infertility and, as a consequence, reduced milk production. Cattle and buffaloes of all ages are susceptible, and infection can persist for many years.

This disease is also zoonotic (a disease that can be transmitted from animals to people

Hence to protect Cattles against Bovine Brucellosis AF Started Awareness and vaccination program with Kutch fodder fruit & Forest development trust (KFFT) in our 11 Villages.

#### Under this project following activities were carried out,

Meeting with Gram Panchayat, Farmers and Livestock Owners

Development and Distribution of the Awareness Materials among the stakeholders

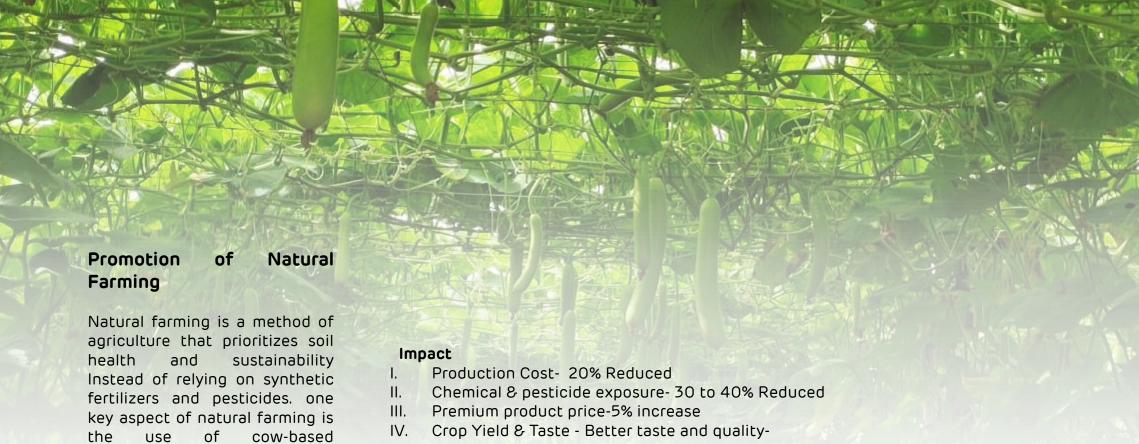
Mass Level awareness by pasting the poster and meetings with Village Gram Panchayat's

Primary Survey and Sample Collections i.e., Milk Ring Test, Blood Collection and testing

Brucella Vaccination and Ear Tagging etc. Brucellosis Control Project 2020 Cumulative Progress of various important

No	Name of Activity	2020-21	2021-22	2022-23	Total
1	Awareness Meetings	19	23	18	60
2	Milk Ring Test	48	11	34	93
3	Blood Sample Collection	29	23	18	70
4	Vaccination	2132	2951	2970	8053
5	Family Covered (Direct)	287	379	484	1150
6	Total Benefited (in Direct) Families	1435	1895	2420	5750



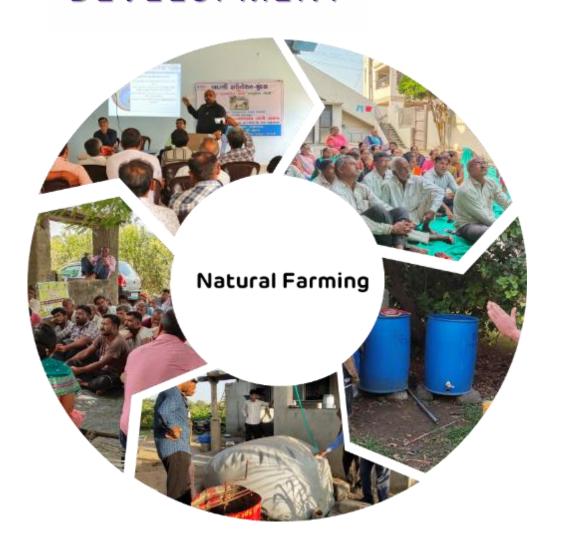


preparation like Jivamrut, Gau Krupa Amrutam and wormy Compost Fertilizers.

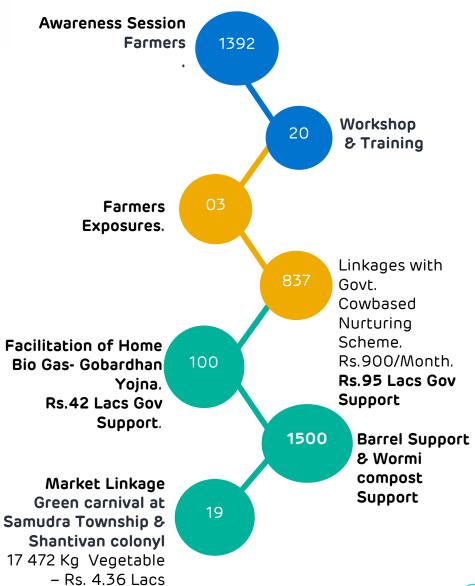
Adani Foundation Promote Farmers to adopt Cow based farming with end to End Program from Awareness to Market Linkage. 1392 farmers benefitted by training from which 60% farmers chemical usage is reduced to half extent in 500 Acres approximately.







#### Implementation Process of Projects





Prakrutik Sahkari Mandli

Formation of Shree Raj Shakti Prakrutik Kheti sahkari Mandali Limited Mangara and register Under Gujarat Cooperative Society act-1961 with 60 Members which is the First Organic Company of Registered across Kutch. AF Started an Initiatives "Green carnival" an initiatives to Provide Marketing Platform to farmers to sell Natural Farming Vegetable & Agri Produce at Shantivan and Samdudra town Ship, Mundra on Weekly base.

We provides resources, and technical assistance to help farmers to market their products successfully.

Farmer's Producer Organization

Kutch Kutch Kalpaturu Producer Entity (KKPC) was established in the year 2020 to address the interests of farmers, particularly to provide an entrance for outputs and inputs. The company was founded with 237 farmers

KKPC served for Date Packaging box, Milk Supply to Colonies, NB 21 Off suits Supply, Vegetable Seed ,Mineral Mixtureand Cattle feed supply and plan to extend more service.

KKPC Current Year turnover is. Rs.28.89 lacs by started Different Kind of Initiatives



## SUSTAINABLE LIVELIHOOD - FISHERFOLK COMMUNITY



Access of Pre-primary education.to 3 Vashat – 125 Students



Transportation Facilities to Govt. & AVMB School- 33 Students



Free AVMB –School Education - 147 Students



Book Support -43 High School Students



Scholarship Support -43
Students of SMJ School Luni



Coaching for 10<sup>th</sup> Exam OF 8<sup>th</sup> .9<sup>th</sup> Failed Students -28 Students Fisherfolk education has had a significant impact on communities to shaping individuals' lives By providing Access of quality education for Pre- primary to Higher Education.

More than 500+ Fisherfolk children are getting Education

#### Impact

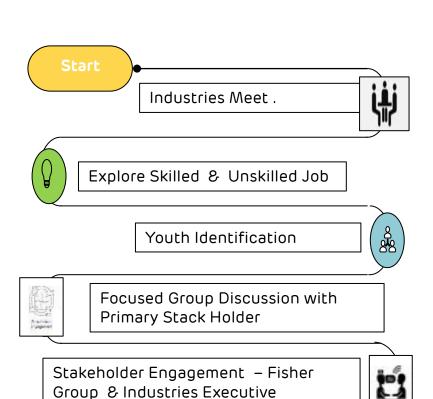
- . Access Of Quality Education
- Promoting Girl Child Education.
- 3. Increase Economic Productivity
- 4. Creating Employment Opportunity
- 5. Social Development & Networking

- 194 fishermen and women are engaged through Contract adani Group Company on regular base.
- 23 Youth have been Placed in Different company after Completion of Technical training.

Total 217 Fisherfolk are Employed and earning on Monthly Base. Average Monthly Income Rs.14500/ Individual









Technical and Non-Technical Training or Soft Skill

Job Placement or Contract work (Skilled –Unskilled)





Frequently Meeting & motivation

#### Fisherfolk Livelihood

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. **5200 Men days** work provide to **285 Fisherfolk** of Luni ,Sekhdiya and Bhadreshwar Villages in coordination with Horticulture Det.

Formed **Sagar Saheli SHG of** Navinal Fisherfolk Women and Linked With DRDA after completion of Stitching Training ,received first order of Rs.80,000 to prepare Cotton Bags. Total 12 Women are engaged and planning to expand with more Women and Order. Liaising with Fisheries department to Facilitate Fishermen welfare Scheme and Form Filling Process. Pagdiya Fisherfolk Kit, Boat Licence renewal, Boat Token Process.







Women are essential to the entire development process, whether in a single household, a village, a state, or a nation. Adani Foundation provides a platform for Community women to overcome the social barriers by becoming change - makers in their communities and societies while maintaining their traditions. Mundra has witnessed a significant shift in the development of women beneficiaries in various fields of occupation including such agriculture, self-employment, horticulture, and so on. The Adani Foundation has a strong emphasis on strengthening rural women and betterment through sustainable livelihood support, resulting to socioeconomic shits in the rural population.

Strategy & Process of Empowering Women by SHG Group

Identification of target Group

Mobilization and formation

Capacity building & Training

Saving & Credit Activity

Income generating Activities

Connect with Government & other organization

Monitoring & Evaluation

Adani Foundation has been working towards empowering women through various programs and initiatives. Here is a brief overview of our work in women empowerment :

- ✓ **Self Help Groups (SHGs)**: We have established 82 self-help groups in various rural and urban areas to provide financial and social support to women. We provided training and capacity building workshops to members of these SHGs to help them develop incomegenerating activities and improve their livelihoods. Through this initiative, we have empowered over 850 women to become self-reliant with Savings of Rs. 30.42 Lacs
- ✓ Training & Skill Development: We conducted skill development programs for women in various fields such as tailoring, handicrafts, and food processing. These training programs helped women develop their skills and start their own businesses. We have trained over 320 women in various skills, and many of them have started their own businesses.
- ✓ Women's Health: We organized several health camps and awareness programs for women, with a special focus on menstrual Hygine. These programs aimed to educate women about their health and empower them to make informed decisions. We provided health services to over 1150 women through these camps.
- ✓ **Assistance in Job & Government scheme**: We empower 256 women by help them to seek Job, they all earn average 9288/- Monthly. Also Gave awareness about government scheme which directly benefit to woman & helped them in the process to apply.
- ✓ Advocacy and Awareness: We conduct awareness campaigns and advocacy programs
  to promote gender equality and women's rights. We aim to challenge the social norms
  and cultural practices that prevent women from achieving their full potential.

1. 56+ women by Gram Bharati Platform

2. 102 + Menstrual Hygiene workshops

3. 12+ Advocacy and Domestic violence sessions

4. 82 SHG - Saving & Credit Activity

5. 220 + Job Placement









SHG Name	Our Intervention	No. of Woman	Get Order from	Order of	Total Order (lac)	Grambharati (lac)	Till today Turnover
Jyot Saheli Swa Sahay Juth	Collaboration with RSETI & trained woman by Rural Self Employment Training institute	10	Mundra Navratri Celebration	Moti work, Bead work neckless as well as Panjo	0.42	0.75	1.17
Saheli Swa Sahay Juth	Help them for tender process	10	Jilla Mahila ane Bal Adhikari Kutch,Bhuj	Sanitary Pad	1.20	0.00	2.50
Tejashvi Saheli Swa Sahay juth	Help them to increase variety in stitching related work, Wall Hangings, folder bag, Uniform	15	AVMB – Bhadreshwar	Uniform, Folder bag,Jatt bag	9.12	1.10	20.25
Food Sister Saheli group	Help them to start the Canteen at Rangoli Gate	10	APSEZ + Rangoli Driver Shed	Food	3.00	0.00	3.50
Shradhha Saheli	Tender from ATMA + Various ordered of Food + Snacks provided to various Balvadi	10	ATMA, Adani Public school & Balavadi	Lunch + snacks	8.63	0.20	15.00
Meghadhanush Saheli	organized an exhibition of Eco- friendly Ganpati	11	Utthan Project	Mud frames	1.39	0.60	12.00
Radhe Saheli Swa Sahay Juth	Exhibition cum sale & Inspire them to participate in Grambharti	16	Gram bharati order	various type of Dhadaki	0.40	0.20	2.00
Sonal Saheli Groups	Training them for Making Phynial & Washing Powder	10	Port & Wilmar	Sale washing powder	3.60	0.00	12.00
Karimbhai Mansuri	Namda Craft				1.80	0.00	9.80
Over All Corporate	Marketing & Gift packing Training	35	corporate order	Various order from all SHG	9.76		9.76
Total	-	127	-	-	39.32	2.85	<b>87,98</b> 39

Training, Awareness programs, Exhibition and Certificate courses can play a critical role in the development of women by providing them with the skills, knowledge, and resources they need to succeed in their personal and professional lives. Adani foundation is providing that opportunity to rural women by

exposure. This initiative more than 500 woman trained in subject like how to run business, Personal hygiene, Woman rights, social media marketing etc.

30 Women got the Artisan card though the RSETI (Rural self Employment Training Institutes)

motivating 150 Woman from different 82 SHG's. Current year theme was **Digital ALL**: Innovation & technology for gender equality.



Access to quality healthcare is a fundamental right of every individual

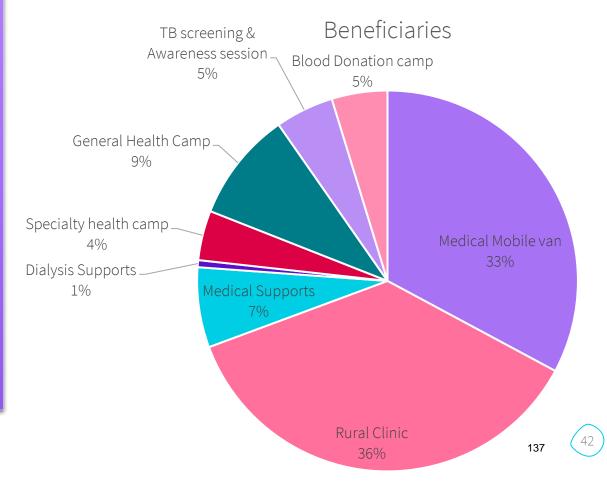
Health plays a crucial role in transforming people's lives. We all realized importance of health after facing challenging situation during Pendamic. Access to quality health care gives a fair chance to lead healthy, productive lives. Healthy people can utilize opportunities available to them.



Sr. No.	Project	Beneficiaries	
1	Medical Mobile van	11879	32 village
2	Rural Clinic	13209	9 village
3	Medical Supports	2460	63 village
4	Dialysis Supports	216	63 village
5	Specialty health camp	1527	
6	General Health Camp	3379	
7	TB screening & Awareness session	1795	
8	Blood Donation camp	1710	
	Total	36175	

# "Healthy mind remain in healthy body which create health community to make healthy Nation."

Adani Foundation is relentlessly working to Provide access of quality health facilities at Doorstep level to create health Society for healthy nation development through various kind of health Projects



### Rural Clinic & Mobile Health Care unit

Adani Foundation focuses on ensuring good health for batter contribution to growth and progress. During this panic situation health is the basic need for development of community. Their objective is to live healthier lives by promoting healthcare seeking behavior.

Mobile Health Care Units and Rural Clinic Services are deployed with the objective of providing basic healthcare facilities to remote rural areas as well as poor peoples. The service is being executed by Adani foundation is to reduce travel time, hardships and expenses.

The mobile health care unit cover 25 villages and 07 fishermen settlements. Around 90 types of general life saving medicines are available in these units. This service become boon for women, elderly and children as the service is availed at their doorstep.

Rural Dispensaries are established where there is a gap in the healthcare services. The Adani Foundation operates Rural Dispensaries in 6 villages of Mundra block, 02 villages of Anjar block and 1 clinics in Mandvi Block. Mobile dispensary and rural clinics provide health services with token charge of 20/- rupees per patient daily by a doctor and a volunteer.

During this year total 11879 beneficiaries were benefitted by Mobile van and total 13209 beneficiaries were benefitted benefits by Rural clinics where female ratio is 65%.





### **Medical Support Detail**

Adani Foundation provides primary health care and financial assistance to needy poor people for ailments such as kidney related problems, paralysis, cancerous and tumor surgeries, neurological and heart problems, blood pressure, diabetes etc.

Partial Medical Support had been given to 2000+ beneficiaries of Mundra, Mandvi and Anjar Block at Adani hospital, Mundra. where as in the Critical cases after stable them we refer them to GKGH, BHUJ for further treatment.

### **Dialysis Support**

The drinking water of Mundra contains high TDS (Total Dissolved Solids). Hence, the proportion of patients with urinary stones and kidney failure is more. Patients suffering from kidney-related diseases require regular dialysis which is costly and adds to the financial burden of the family.

Hence, the Foundation has undertaken a programme providing to dialysis treatment to help the extremely needy patients to live a healthy life. During this

year, 4 patients were supported for regular dialysis (twice a week) with partial support.

### NCD Awareness and Prevention

MHCU and Rural Clinic Doctors are working parallelly for creating awareness prevention measures for Non and Communicable diseases. Awareness sessions scheduled in 8 High Schools and 2 community places. More than 110+ patients were supported and counselled for Hypertension and Diabetes. Due to early intervention their life span increased and quality of life became better

### Machhimar Shudhh Jal Yojana

To reduce water born disease and women drudgery to get water, Potable water is provided to the fishermen communities at different vasahat through water tanker since 9 years. Coordination done with Guirat Water Infrastructure Limited For Juna Bandar, Kutadi Bandar, Veera Bandar and Ghavar Bandar, Adani foundation is supporting to 3 fisherfolk settlements.







# COMMUNITY INFRASTRUCTURE DEVELOPMENT

The Adani Foundation's Community
Infrastructure Development (CID) program is
the keystone initiative focus on improving
infrastructure facilities of rural and urban area
with proper designing and implementation to
built robust infrastructure, This project
impacted Thousand of life toward health care,
education, agriculture, water and sanitation
and other basic facilities for sustainable rural
development



# COMMUNITY INFRASTRUCTURE DEVELOPMENT

40 Construction Of RRWHS

19 Bore Recharge 2 Pond Deepening under SSJY



Pond Beatification -Bund Strengthenin g at Bhujpur

2 Percolation Bore Recharge 3 Restrengthning of Approach Road

Cricket Ground at Hatdi Construction of house for needy fisherman

3 Construction of Water Tank at Luni Bandar

Construction Common gathering open shed

Renovation Approach Road 4 Common gathering Open Shed

Community Vegetable Development Market at of Gate Valve center Mundra at Checkdam Shekadiya 2 Pond Fisherman Bund Strengt-Deepening approach Azadi ka hening at Road Bhujpur Amrut restoration Mahotsav Renovation 2 Disable 2 CC Road of Blood storage Widow Toilet 700 mtr. Lab CHC Block Mundra JCB & Hitachi Check dam Re Support for Pond Pipeline work 800 Mtr Pre-Monsoon strengthening Activity Bharudiya

School Compound wall at Rampar

Renovation center Mundra

R.O. Plant Mokha 1000ltr /HR

Flood Water Control Sluice Gate at Zarpara

Construction & Development, Repairing & Maintenance and Support Work covered during the year

# CRC MUNDRA

### **Community Resource Center**

Community resource Center is the bridge between Government Schemes and real Beneficiaries. It is situated at Adani Field Office, Baroi with the motive to be Single window point solution (Online Application & Documentation) to Facilitate Government Schemes leveraged to needy and Eligible people.



Key Achievements of Community Resource Center Monthly Base

Government Scheme Facilitation					
Sr. No	Gove Scheme	Gov. Support Rs/Month.	Total Beneficieries	Total Amount/ year	
1	Widow Pension	1250	641	18496350	
2	Bal seva Ayog	2000	49	2254000	
3	Divyang pension	1000	19	323000	
4	Divang Bus pass	300	439		
5	Niradhar Pension	750	126	2808750	
6	Palak Mata Pita	3000	5	516000	
	Total		840	2,43,98,100	

## CRC MUNDRA

### Widow Pension Yojna

Objective of this Yojana is to provide Financial support Rs.1250/Month to widow to made Them Financial independent. Parallelly, we are conducting Motivation Session with them to raise their Value and Positivity to create healthy family Environment.

Till The date Total 641 Widow have been Linked with Government Widow pension Scheme.

# Monthly Pension and other allied Scheme

Under This Program disabled Person are supported with Monthly Pension @ Rs.1000 As well allied facilities like Bus pass, Railway pass to made them Self sustain and Confident.

Till the date total 458 Divayang are linked with Different Government Scheme.

### Bal Sakha Yojna

Aim Of the Yojna is to Provide Financial support Rs.2000/Month for Education Purpose to below 18 year Students who lost their Parents due to Life threatening Disease Including Covid.

Total 49 Students are getting benefit of the scheme.

### Palak Mata Pita Yojna:-

Motive of this scheme is to promote parents who is taking care and Nurture the child who is Below 18 year and lost their parents.@ Rs.3000/Month.

Total 5 children are being supported under the scheme.

### Niradhar Pension Scheme

Under this Scheme Financial Assistance 750/Month is provide to Senior citizen who don't have Surviving Children (Son) or Below 21 year son.

Till The date 126 senior Citizen availing schematic benefit.





# **CRC MUNDRA**

# Some Glimpse of Cow Nutrition Support scheme Biogas Under Gobardhan scheme



# Key Achievements of Community Resource Center One time

Sr. No	Gove Scheme one Time	Gov. Support	Total Beneficiaries	Total Amount/Year
1	Covid Support One Time	50000	12	6,00,000
2	Vahali Dikri @ 18 Year	110000	113	1,24,30,000
3	Divayang Sadhan Sahay one time	5000	176	8,80,000
4	Manrega (NB21)	22000	32	7,04,000
5	Pagadiya Sadhan Sahay Yojana	9000	9	81,000
6	Gau Dattak Yojana	10800	857	92,55,600
7	Gobardhan Yojana	42000	100	42,00,000
8	Fishermen Shram Yogi Yojna		163	
			1487	2,81,50,600







Total Centre Admissions FY 22 - 23

# ADANI SKILL DEVELOPMENT CENTRE

### Mundra

Courses	Female	Male	Total	Revenue Generated
Pedicurist and Manicurist	68	0	68	68000
Beauty Therapist	18	0	18	36000
Self Employed Tailor	31	0	31	38850
Assistant Electrician	0	50	50	188800
Bar Bender and Steel Fixer	0	29	29	0
Meson General	О	29	29	0
Domestic Data Entry Operator	47	11	58	239000
Junior Crane Operator	0	23	23	642000
Interview Skills	14	18	32	0
Mudwork	71	0	71	61600
Solar PV Manufacturing Technician	0	25	25	109500
Basic Functional English	562	670	1232	707300
Digital Literacy	391	461	852	454290
Total	1202	1316	2518	2545340

## Bhuj

Courses	Female	Male	Total	Revenue Generated
Interview Skills	21	9	30	0
General Duty Assistant	45	8	53	3,09,734
Disaster Management	0	2	2	4000
Basic Functional English	1077	352	1429	8,57,400
Beauty Therapist	2	0	2	4000
Assistant Beauty Therapist	1	0	1	1500
Self Employed Tailor	8	0	8	8000
Digital Literacy	231	270	501	3,00,400
Domestic Data Entry Operator	0			4,720
Non Domain Employability Skills	21	11	32	0
Diet & Nutrition	02	00	02	9440
GST with Tally	16	01	17	98000
Understanding Operating System	21	7	28	0
Entrepreneurship	23	7	30	20,800
Financial Literacy	51	1	52	3600
Total	1519	669	2188	16,21,594

# ADANI SKILL DEVELOPMENT CENTRE BHUJ

# Soft Launching of Self-Employed Tailor – Outreach Batch at Meghpar

Soft Launched Self-Employed Tailor Batch at Meghpar (Out-reach). Total 25 candidates are enrolled.

# Soft Launch of Entrepreneurship Development Program

Soft Launch of Entrepreneurship Development Program Training at Centre under CED with 30 candidates.

Soft Launch of General Duty Assistant Batch Soft launched General Duty Assistant Batch with 30 candidates under DDU-GKY scheme as per instruction by GLPC.

Soft Launch of FL Training under Special Project Launching Special Project Jointly with KMVS NGO for FSW (Female Sex Worker) Financial Literacy training Inaugurated on 22-07-2022 Total 46 women participant









# ADANI SKILL DEVELOPMENT CENTRE MUNDRA

# Mud Work Training— Outreach Batch at Samundra township

Total 45 candidates are enrolled.

**Soft Launch of Data Entry Operator Batch**Soft launched Data Entry Operator Batch with 50 candidates under Thermax Foundation Tie-up

Soft Launch of Solar Panel Manufacturing Technician Training of Solar Panel Manufacturing Technician Training at Bhuj, ITI with 25 candidates.

Soft Launch of DL Training under DEO Project Soft Launch of DL Training at AVMB School with 61 Students

Tie Ups with (Thermax Foundation, Empazer, Navin Group and DEO Kutch @ Rs.24.25 lacs.







# ADANI SKILL DEVELOPMENT CENTRE MUNDRA

### **DEO Project**

MOU with Kachchh District Education Office. In this MOU ASDC has provided training of Digital Literacy and Basic Functional English in Kachchh District Schools. As per MOU Kachchh District Education Office has provided 4000 candidates to us for training (Adani Skill Development Centre). Funding from Thermax, CFS and DEO made it possible

Courses	Total Students Trained
Basic Functional English	2659
Digital Literacy	1341
Total	4000







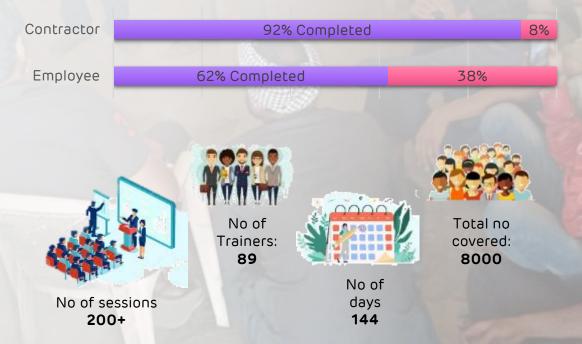


# Dignity of Work Force Programe - EVP

India's National TB Elimination Programme (NTEP) aims to meet the ambitious goal, announced by the Honorable Prime Minister Shri. Narendra Modi, of ending the TB epidemic by 2025, five years ahead of the UN Sustainable Development Goals (SDG) of 2030. In response to this call, the Government of India and USAID jointly launched the Corporate TB pledge (CTP), in April 2019 to galvanized corporate support to end TB.

To continue the momentum and efforts, the USAID-supported iDEFEAT TB project, which is working towards institutional strengthening to accelerate actions for Tuberculosis (TB) and drug resistant TB (DR-TB) in India; was launched as USAID/India's flagship TB project. The project works in collaboration with the Central TB Division (CTD), Ministry of Health and Family Welfare (Mo HFW) of the Government of India across a network of diagnostic, treatment, and program management institutions.





# Dignity of Work Force Programe - EVP

The CTP secretariat, hosted at The Union under the iDEFEAT TB project, provides technical assistance to government and corporates to adapt, implement TB interventions, and guide corporate resources for TB and DR-TB care.

Early diagnostics and treatment initiation are key to saving lives and minimizing disease transmission. In 2019, India reached a milestone of 24 lakh notified cases in India, an increase of 12% compared with 2018. Even then, an estimated 5.4 lakh were 'missing' across India, a serious drawback to our TB elimination efforts as what is not measured is unlikely to be improved. Diagnostic delays are also prevalent in India, with studies indicating that these can be attributed to patients as well as health systems.

Adani foundation with APSEZ, APML, AWL and MSPVL HR department in coordination of FOKIA has launched cluster based screening program to eliminate TB in labors under Dignity of workforce program. Adani Ports and SEZ Limited has completed screening with 8000+ work force.

USAID/India team including Director – Health Office has visited Adani Foundation CSR Activities related to community health. He visited Adani Hospital, GKGH Hospital and related activities.





# Programe - EVP



adani tawa

All TB polients will get

THEIRIGE

₹500 per month

for nutritional

the entire reatment

USAID

period.

support during



TB-Free Workplace models were showcased in Multisectoral Corporate Engagement towards TB elimination in India conference. @Adaniports through @AdaniFoundation covered a population of over 8000 people comprising employees, family members & contractual workers at Mundra port.







# Health Camp for workforce and Green Carinal Celebration



It is true that we cannot achieve our goal of development unless and until we support to bring up the lives of this community. Basic needs of this work force need to be considered. In labour Vasahats they were not getting even the facility of pure drinking water, proper living condition, sanitation which Adani Foundation has addressed one by one within last years five years span.

With the objective to build up trust and transparency in labour community, union Labours and Smooth business operations, Adani Foundation had organized 45+ labour camps for 2000+ workforce beneficiaries in coordination with Adani Wilmar Limited

18 Green carnivals
17472 Kg Fruits and Vegetable
436000 INR

Started the great
initiative from world Soil Day Biggest Employee volunteering
program of Adani Ports and SEZ
Limited with more than 56
employees as supporter of event
organizer and 225 employees with
family as a supporter of Farmers n
SHGs.

Children used to enjoyed Games and Dance! Lucky Draw surprise gift was organic ghee..

HR department, IT department and Admin department has supported a lot and will support every fortnight for this sale every sunday



# ADANI KANDLA BULK TERMINAL PVT LTD - TUNA

### Water at Fisherfolk settlement

Potable water (18 KL per Day)
Distribution to Vira and Dhavlvaro
Bandar through Water tanker Regularly
which improve Hygiene and Health
standard and reduce Women drudgery
,Cost and Time to get water by
Linkages through AKBTPL and GWIL
daily bases.

### Fodder Support

Support of Dry & Green Fodder to Tuna and Rampar Village Gaushala Cattles during Scarcity which impacted on Cattle health and Milk Productivity ultimately Farmers Income as well. Total 643825 Kg green Fodder Supported for 900 Cattles of Tuna & Rampar.

### Tree -Plantation

Total 200 Tree was planted and ensure responsibility for watering and caring. This initiative involved Community and School students and sensitized to plant more trees and nurture. After our plantation, Gram Panchayat also planted 55 Neem trees in same premises.



# ADANI KANDLA BULK TERMINAL

PVT LTD - TUNA

### School Renovation work Rampar

More than 800 students are studying in Rampar near Tuna port. School did great coordination to approve 3 new rooms from Sarv Shiksha Abhiyan. Other part was required renovation which was taken care by Adani Foundation. Due to this Total 6 Rooms are now in full utilization.

#### CC Road Wandi

Wandi is 1 km away from Adani Kandla Bulk Terminal Port Limited and 100 % Population of Fisherfolk. 1 Km Drainage line is done by WASMO – CC road request received in year 2021. Adani Foundation guided for CC road work after drainage work.

### Common Gathering Flooring work, Tuna

Tuna Village is 2 Kms away from AKBTPL. In Tuna Village, community gathering shed was constructed from MLA Grant. Flooring work was not included in the same, which was taken up by Adani Foundation. Shed is well utilized in SHG meetings, Farmer meetings and Gram Sabha









# ADANI GREEN ENERGY LTD -ABDASA

Adani Solar Plant Bitta is under Adani Green Energy Limited. Adani Foundation is doing regular support of JCB during monsoon or any accident cases as and when required.

Apart from it Celebrated Chairperson's Birthday by distribution of school bags to the children taking admission in class 1 along with necessary books and Education Material. Which includes Bitta School, Nani Dhufi School and Moti Dhufi School.

Deputy Collector of Abdasa taluka place, called for a meeting to all major industries of taluka area. Agenda of the meeting is to develop 7no's "Amrut Sarovar" in Abdasa taluka area under government proposal at every district level.

As per the proposed identified locations by Deputy collector, one of the location he has asked to develop by Adani Power Limited. He has proposed, "Amrut Sarovar" is developed nearby our plant area with amount Rs 20 lacs as per pond size All such proposed "Amrut Sarovar" are new only, not to develop available old pond in nearby area.







Ratanbhai Keshavbhai Gadhavi is a farmer of Moti Khakhar. On 17th May 2022, he purchased NB Super Grass Stalk to cultivate it in 1 acre of his land. After maintaining, nurturing and hard work the grass thrived lush green with a tremendous height that's when he performed his first mowing of it.

Ratanbhai had to feed fodder to his 35 cattle regularly. While interacting, we came to know that he used to require 16kg of dry grass during summer and winter at an estimated cost of ₹1,60,000 but after planting NB Super Grass, he has saved 80-90,000rs which is approximately 50-55%. Apart from this, Ratan bhai also mentioned that during this period, he usually had a demand for 2 to 3 farm trucks of fodder which he used to order from the market but after cultivation of NB Super, not a single farm truck loaded with fodder is demanded from him.

Moreover, due to the cultivation of NB Super Grass fuel and fare expenses on farm trucks have nearly come to end. Also, Ratan bhai has already mowed the grass twice and 3rd mowing is going on having the height of grass 12-14 ft.

Lastly, Ratan bhai stated that his cattle relishes and is habituated with NB Super Grass more than any distinct fodder.



### Amrutaben desired to ask God for one thing, a new pushcart! -

Jiluben is an elderly woman with physical limitations and a terrible economic state. She's been widowed for thirty years. Jiluben's son is 50 years old, unmarried, and almost face continuously ill. while her daughter Amrutaben is divorced (she got married 20 years ago). Jiluben, who is 70 years old only has her daughter Amrutaben is working. Amrutaben used to use her old pushcart, but it was heavy and too old for her to carry around everywhere, plus she didn't have enough money to buy a new one. Amrutaben only desired to ask God for one thing, a new pushcart! because everything else she could take care of on her own despite such bad situation.

An employee of the Adani foundation has spoken with Sarpanch Hawaben about the work being done by the Foundation on support of people with disabilities. As soon as she informed & requested that to make visit at Jiluben house. Their pushcart needs were discussed by representative from the visited, verified all the necessary paperwork, and spoke with Jiluben and her family about government programs for widows and people with disabilities. And a week later the entire process was completed, and the new pushcart was provided to them. She is now able to work promptly and help their family in overcoming this difficulty.



Hiruben Karsan Tharu lives with her parents in Nani Bhujpur village. She fell very ill when she was three years old. After treatment, she recovered, but her both legs were affected by the paralysis in both legs. At such a young age, she started coping up with her disability Adani Foundation provided platform to women of Nani Bhujpur village by providing them with Sewing Machine and enrolling her in sewing machine training. Moreover, she was provided with Wheelchair and Calipers to help Hiruben move comfortably and attend class regularly.

Presently, she earns Rs. 5,000 to Rs. 6,000 a month from stitching work which is much appreciated and admired by her neighbors and relative.



### Empowered Women, empowered nation!

India is a land of culture and traditions. These traditions are kept alive in rural locations. One such tradition is gifting daughter during her marriage for her happy married life. Sonalben too received a cow from her maternal family during her wedding. This was given with a purpose of livelihood generation at the time of crises. For sonalben, this gift was priceless, she decided to utilize income received from one cow to buy more cows. She continued to sell milk, buttermilk, Ghee, and other cow-based products and retain income to buy more cows. Gradually she increased her livestock to 66 cows which provides 165 liters of milk per month. Within 7 years of her marriage her livestock increased from 1 cow to 66 cows.

Looking at her zeal and passion towards animal husbandry, Adani Foundation provided her with Biogas kit so that she can save cooking fuel cost and fertilizer cost as waste slurry from biogas acts as a natural fertilizer.

Recently, On Kisan Divas she was felicitated by Adani Foundation for doing exceptional work in Animal Husbandry. She has now become a guide for all those women who wish to make living out of limited means.



"Agriculture is our wisest pursuit, because it will in the end contribute most to read wealth, good morals, and happiness." – Thomas Jefferson

It is said that one can do everything if he or she has direction and clarity towards the goal. Geetaben, a loving wife, responsible mother of 3 daughters and a son and an amazing farmer has always supported her husband in his farming occupation. Her life took a transformational turn when her husband passed away in 2018 due to severe heart attack leaving all responsibilities on her shoulder. Of course, she was working on farm keeping shoulder to shoulder with her husband before he passed away but managing farming single handedly was a tough business for her. Moreover, raising 4 daughters and a son for a widow is a somber task too. It took couple of months for her to hold herself up for the sake of her children and to make her husband's dream true. Her husband Late. Bharat Bhai Jethva hold recognition to be a first farmer in Mundra district who has initiated to cultivate Kamalam (Dragon fruit) in his farm. He had a dream to cultivate best of organic Kamalam and sell his organic fruit to a larger market. He was on cloud nine when his first harvested kamalam blossomed beautifully. But unfortunately, his heart attack pushed him to changed realm. It was her determination to continue his husband's dream and take kamalam cultivation to the next level.

As Geetaben started inclining towards chemical-free farming, she started getting higher value for her crops resulting more income. With foundation's support and guidance, she understood which crops/vegetable to sow for high returns.

Jethva family holds 4 acres of land and Geetaben took charge of cultivating seasonal fruits and vegetables in that farm. Being a female farmer, the use of chemical-based farming impacted her health a bit but still she used to cope up with daily chores until she had an encounter with Adani Foundation in her village Mangra. Team members Mavji Baraiya, SLD Head and Kalyan Gadhavi, Community Mobiliser from Adani Foundation organized Natural Farming training at Mangra village of Mundra district. All farmers of Mangra village participated in that training, she also attended the training in which she got insights of all techniques of natural farming and proposed support from Adani Foundation. She approached foundation team and expressed her willingness to learn more on natural farming techniques for crops, vegetables, and fruits. Before that Jethva family used to cultivate only Kamalam organically but after the intervention and continuous trainings by foundation, she decided to turn her complete farming through natural techniques by gradually taking baby steps toward this new endeavor.

Looking at her zeal and dedication for O chemical farming, Foundation provided her with Biogas Kit, Drip Irrigation system, Development of Vermicompost and Jivaamrut. Presently she has 6 to 7 livestock. With the installation of biogas, the slurry produced by biogas digesters makes excellent fertilizer when applied to farms. Moreover, Geetaben learnt how to make Jivaamrut from Adani Foundation's natural farming trainings, which she then applied to her farm where she noticed significant improvements, including a reduction in nutrient deficiencies, an increase in crop size without the use of chemical fertilizers and the presence of lush green, healthy crops. In addition, the Adani foundation brought knowledge of vermicompost to her farm, which she says has already made a big difference in the soil's fertility. Also, setup of drip irrigation system was done in order to save water, nutrients loss, and to provide the water direct to the soil root zone of the plant.

Prosperity knocked her door, and she provided best education to her children. Her daughters completed Engineering and Son is presently studying in Anand Agriculture University. On asking him about his future, Hariom (Son of Geetaben) shares "My father is recognized as first farmer of Kamalam in Kutch and my mother is epitome of strength and a proud farmer. My mother has achieved lot dignity and respect in our society since she received foundation's guidance for practicing natural farming and I will follow her footsteps in same direction by establishing natural farming agriculture business to provide best quality crops to the society." Geetaben continues to strive excellence in learning farming training regularly and become a promoter of same to encourage other farmers to adopt Natural Farming for better cultivation and higher returns.



At Ratadia Ganesh wala village in Mundra taluka, Rabari Megha Vanka lives with 60 percent of his legs divyang.

Meghabhai was working in a garment shop in Mundra two years ago. Bhabhi Ben used to help in running the house by making several pedas. Meghabhai lost his job during Corona time. Then Meghabhai started selling pedas in nearby villages. With the help of Adani Foundation, he was given small help for home based industry and also helped him in the process for obtaining medical certificate and bus pass. Now, Meghabhai with the help of his wife Pabi Ben started home industry 'Pena Home Udyog' and made it as the main means of livelihood. They sell 300 kilos of pedas every month. On an average they earns 18000/- per month.

When the bus pass will come he can save more money by traveling by bus for orders from Gandhidham, Bhuj, Mandvi and nearby areas.



### Only a teacher can turn the disability into a talent! - Mundra

Challenges are what make life interesting. Overcoming them is what makes life meaningful". Halepotra sadiya studying in class 4 of Dhrub primary school is the SEN - special education needed .she is not able to see clearly through her eyes that is having the problem of vision by birth, she underwent 4 operations but have a great IQ level which never stopped her from learning new things, sadiya's parents never stopped her coming to school, she had a problem in basic maths ,gujarati reading and writing but within an year she worked continuously during her free time and now is able to read write and perform basic calculation. Her favourite hobby is learning new things, colouring and listening new rhymes from YouTube, she can now stand up in morning assembly and give her introduction in English. "only a teacher can turn the disability into a talent through hard work and self confidence". Her dream is to become a teacher.



Health care service is to save the lives!

Mohammad Sadik Turk, 16, of Dhrub arrived in critical condition because of pain in the area of his kidneys. The condition was treated as an intestinal problem by doctors. The specialists tried their best to treat him & offering variety of medications. Support him for his routine dialysis for six to eight months while paying attention to his condition. He no longer needs dialysis after complete therapy, but he still needs to regularly administer injections three times every month.

Many young children pass away each year from insufficient medical care and inability to pay for necessary treatments. As long as there is only one source of income for the family and everyone depends on him, it is hard to provide costs for those who are living below the poverty line. Although India has more than 50,000 patients who receive long term dialysis, it has only a thousand kidney specialists in the entire country. Furthermore, treatment can be expensive. In situation like this Foundation pays for the child's injections in light of his financial situation and wishes him a quick recovery and a long and healthy life. The main goal of the Adani Foundation's community health care service is to save the lives of children like Sadik.



**World water day** was celebrated on 22<sup>nd</sup> March in coordination by Adanl Foundation at Bhuj.

Program was designed on District level awareness on participatory ground water management on the theme of accelerating the change to solve the water and sanitation crises with exhibition of water saving tool, equipment and IEC material.

On this Occasion Mr Dilip Rana (collector Kutch) was the chief guest and guiding force. He emphasized on RRWHS with assurance to provide 50% Support from government to developed single village as model drinking water sustain village with having 100% RRWHS facilities.

Shri Dobariya Sir administrative officer of Atal Bhujal Yojana and Mr.Nimish Padke Director - Fokia also shared about sustainable management of fresh water sources for future generation. Mr.Mahendra Gadhvi (Pramukh, Jilla panchayat) also shared his views. More than 200 farmers + Women and Sarpanch of Mundra.



Project Pragati: Success of completion of Project Pragati 1st batch was celebrated on 29th April at Adani House, Mundra in esteemed presence of Mr Vikram Tandon, Chief Human Resource Officer, Adani Group, Shri Vasant Gadhavi Executive Director, Adani Foundation and Mr Rakshit Shah, Executive Director, APSEZ. Other dignitaries who graced the occasion were Mr AnilKumar Kalaga, Mr. Charles Douglas, CEO, Mundra and Tuna Ports, Jatin Trivedi, COO, Adani Skill Development Centre and all HR and Department heads of APSEZ, Power, Solar and Wilmar.

The event celebrated by distributing skill training certificate to 52 fisherfolk students, who were trained under Mason and Assistant Electrician job roles under Adani Saksham. All training along with their community leaders shared heartwarming testimonials and expressed emotion of gratitude towards Adani Foundation for providing them skill training opportunities.



Adani Foundation ,Mundra celebrated **World Earth Day on 22nd April** 2022 by distributing 'HomeBio-Gas Kits' to 100 farmers Program intense is to gather 'धरती पुत्रो' who share similar mindset and have determined to use Home Bio-Gas to witness social, economical and environmental impact.

Program was graced by Rakshit Shah, Executive Director, APSEZ along with below mentioned esteemed Guests.

1.Manojbhai Solanki, Trustee, Shree Ram krushna Trust,

#### **KUKMA**

- 2. Prof. Mrugesh Trivedi, Scientist, Kutch University
- 3. Kalpesh Maheshwari, Project Officer, Atma, Bhuj
- 4. Dr. U.N Tank, KVK, Mundra
- 5.Ms. Riddhi Patel, Officer, kutch
- 6. Shaileshbhai Vyas, Satvik Sanstha, Kutch
- 7. Shantilal Patel, Officer, Mundra



Adani Foundation Mundra has celebrated the **International Disability day on 3<sup>rd</sup> Dec** since 2011 with lots of enthusiasm and Zeal in coordination with District Social Welfare office by planning various support to divyang people.

Current year in line of the international Disable day Theme "Transformative solutions for inclusive development: the role of innovation in fueling an accessible and equitable world." Adani Foundation has organized "Divyang Job Fair" in coordination with 11 SEZ Industries at Mundra on 2nd December 2022. More than 50 Divyang had applied for interview out of them 06 were selected For Job.

Apart that Divayand Aid and equipment (Limb,Chair was Supported In the Esteem Presence of Respected Rakshit sir-EDM, APSEZ, Mundra.



World Environment Day was celebrated on 5<sup>th</sup> June in association with Ayi Shree Vishrimata Seva Trust and Gram Panchayat, Moti Bhujpur at Vishri mata Templae and pledged to plant 51000 for which Gram Panchayat will take responsibility to nurture trees throughout this year.

program was organized at Vishrimata mandir with tree planation activity on this occasion Shree P T Prajapati - Sub Divisional Magistrate remain present and address Public to Nurture environment for Future.



Adani foundation Mundra has celebrated **International** women day on 8<sup>tH</sup> march at different location of Mundra and Bhuj in coordination with District Animal health department and Sarhad Dairy the day was celebrated at Mundra with Appreciation of best 10 cattle owner women of Mundra who did remarkable work with Sarhad dairy. On this Occasion Dr Thakkar ( DAHO) and Dr Lalani ( cheif Sarhad dairy) appreciated efforts of Adani foundation in animal vaccination and Animal health care in Mundra. More than 210 cattle owner women remained present.

District Level celebration was done at Bhuj GKGH with Lunching OF Punya sloka book (Stories of 37 empowered women), A Book Written By Adani foundation employee Mrs. Purvi Goswami on The successful women of Kutch. More than 300 Women had participated.



National Farmer day on 22 dec with Honoring Women Farmers.



Animal Husbandry Awareness Program



International wet land ay Celebration
Through Poster presentation
Competition



Teacher Day & Youth Day Celebration



No Tobacco day celebrated by creating awareness to take preventive measures for workforce



International Yoga Day celebration in coordination with sub divisional Magistrate Mundra.



International coastal Day celebration at Mandavi with Cleanliness Drive



Adani foundation and Agri Department jointly organized district level workshop on Natural Farming Practice with Gram Seval



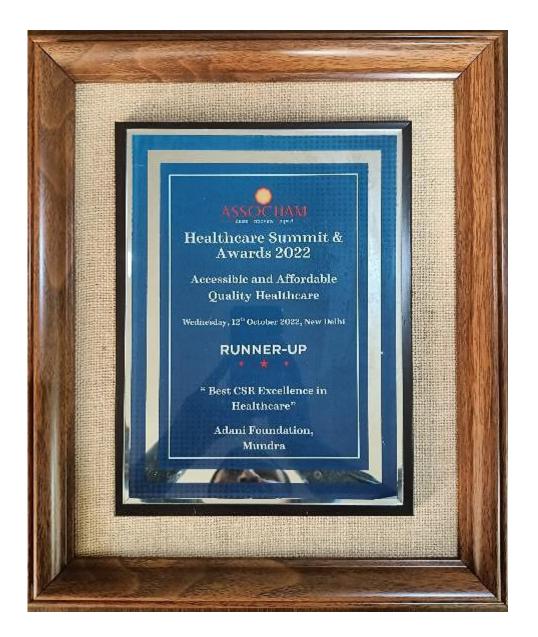
The International Mangrove Day for the Conservation of the Mangrove Ecosystem is celebrated

### **AWARDS**

### **ASSOCHAM AWARD FOR HEALTH CARE**

Adani Foundation's Community Health project received runner-up position in 'Best CSR excellence award in Healthcare' Associated Chamber of Commerce and Industry of India (ASSOCHAM) in Award ceremony organized at Delhi on 12th October 2022. Community Health project has participated in the grand event to accept the Award on behalf of Adani Foundation, Mundra site.

The award was presented by Chief Guest - Ms
Roli Singh, Additional Secretary & Mission Director
(NHM), Ministry of Health and Family Welfare, Govt. of
India and Dr. Upasana Arora, Co-Chairperson,
ASSOCHAM Healthcare Council and Chairperson,
Yashoda Super Specialty Hospital.



### Awards and Recognition



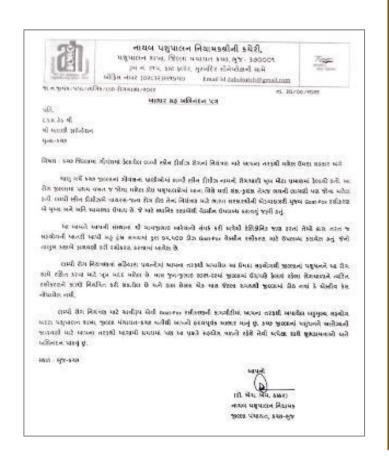
Adani Foundation participated in QCFI awards on 4th Feb 2023.

Presented Women Empowerment initiatives and received Diamond award for exemplary work done by Adani Foundation for empowering rural women.



our services were appreciated by representative of Ministry of Health Government India, WHO, Union and more than 52 corporate companies present in the National conference on Multisectoral corporate engagement towards TB elimination.

### Awards and Recognition



Received appreciation letter from District Animal Welfare Departent for commendable work for Cattles affected by Lumpy Virus



Jyoti ben tank received Awaard from Vice Precident in Amazing Indians Awards who is member of Prakrutik Sahkari Mandali supported by Adani Foundation.

## Support to children lost their parents in Morbi bridge collapsed incidence



Adani Foundation supported 25 Lacs each for 20 children who lost their single/both the parents. Adani foundation was honored by IAS G T Pandya Collector and District magistrate of Morbi district for helping children who lost their parents in Morbi bridge accident.

## One step forward towards growth with goodness...

Children residing at Morbi, Kutch, Ahmedabad, Rajkot and Dwarka who lost their single or both parents in Morbi Julta Bridge collapse incidence received support of 25 lacs each from Adani Foundation.

Representatives from Adani Foundation, Karsanbhai and Jagrutiben visited above districts to check on the affected children and also met with SBI bank officials, collectors regarding disbursal of amount. 10 Children received amount in their respective bank accounts. For others, work is under process.



### Capacity Building Training



Adani foundation team visited Lakhond and Chandrani plant of sarhad Dairy.

These three plant out of which two plant milk processing and packing and another plant cattle feed plant were

Mr.Nilesh Jalankar, General Manager provided information about how cooperatives work in the field and about their supply chain management.

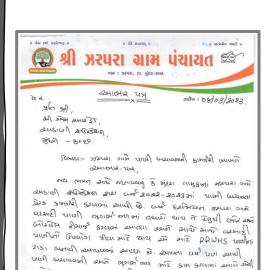


Adani Foundation team attended Capacity Building Training Program on 3<sup>rd</sup> and 4<sup>th</sup> of October on Adani Competency building and mapping.

The training session was conducted by expert trainer Mr Kamal Dabbawala.

Two days sessions were filled with theory sessions, Activity based learning and discussion-based learning.

### Awards and Recognition

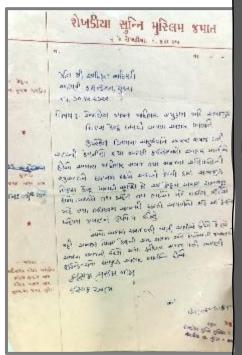


व्यापेका अह क्या डामनीही धर्म क्यापनी पुष्प गुल

Delimia Historia Star.









्रार्था कर संपत्ति, पार्च प्रत्यक्त अने क्ष्यावर विस्तान નાયમ કાર્યપાલક ઇજને રહ્યી ની કચેરી કાર અંકુલ પેટા વિભાગ, મુન્લ वातीत होत, कावाती सीसायडी, यून्य कथा. Ereal- misdreandre@gmail.com



MASH HSBIS

યાન સામેરેલિ પીધી / રેવ

de ... 6/02/2023

west #6.24m મદાર્થી પૈકેસ ચેન્ક ચેમાં કરેડ 444-638

વિષય માત્રદી સ અમૃત અમેત્રવાન ભાગકપૈ ભેતરસમાં તાલવ નવિનીકરણ કરવા.

र्वपरीक्त विषय अन्त्वते अवित्रय सह प्रदाववानुं हे, आजारी स अभूत महित्सदाना લાગુરી ભાગની કંપનીને રજૂઆત કરતા ગોધરસામ ગામે તળાવ નવીનીકરણનું ક્ષમ આપની કંપની ભારણી સઉત્તરેશન ઘરા તેને ખુબજ સુદર રીતે પૂર્વ કરેલ છે. તે બદલ આપનો ખુબ ખુબ

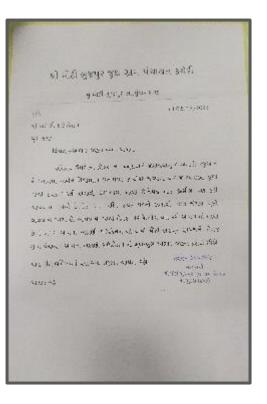
વધુમાં જણાવવાનું કે, મહિલ્લામાં સદર તલાવના વેસ્ટ વીચર તેમજ પીચીંગનું કામ આપની કંપનીના શી.પેસ.આર. ફંડ મોટી કરી આપવામાં આવે તેવી ભાષા સાતીએ લીએ. આવા પણી પ્રયત્નના પ્રયો આપની કંપની શતિષ્યમાં પણ કરતી રહે, એવી આશા સાથે આવાર…

> RIL नायम सर्वपावत एक्जेर mie wign fan Roupe. Hedi-sta





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#### Beneficiaries List

Sr. No	Program	Direct	Indirect	Remarks
1	Education	3505	14020	UT than Mundra
2	AVMB-Vidhya mandir	568	2840	AVMB -Students
3	Community Health-Mundra	35832	141130	Rural clinic, MHCU,Health camp, AHMUPL
5	AHMUPL	42455	127365	OPD & IPD Patients
6	SLD-Women	1359	6795	SHG Group & Individual Income Generation
7	SLD-Agri & Animal Husbandry	7718	30768	Fooder,Home biogas, Farmers training, Cow based farming -20,Cattle camp Etc.
8	SLD -Fisherfolk	5957	4476	Education, Mangrove, Potable -Water and Livelihood
9	CRC-Gov Schemes	1106	5530	Government Schemes
10	CID	11767	47054	Fishermen Amenities & Other Rural Infra Work
11	Nakhtrana	1209	4836	UT than
12	AKBTPL,Tuna	10071	16373	Rural clinic, MHCU,Health camp, Drinking Water,Fooder Support, Infra Work
13	Bite	2500		Pond deepening Dhrubhi and Bita
15	ASDC,Bhuj	2188	10940	soft skill and DL .GDA & Online Training
16	ASDC,Mundra	2518	32590	Technical & Non-Tech DL .GDA Training
17	Uddan	27377		Students
	Total	156130	444417	

#### Financial overview – Adani Foundation Mundrta Executive Summary – Budget Utiliaztion FY 2022-23

Sr No	Particulars	Approved Bud	dget F.Y. 2022	Utilization 2022-23	% of utilization	
		CAPEX	OPEX	Total	2022-23	deliizacion
А	General Management and Administration	1.80	92.35	94.15	98.45	104.56%
В	Education	0.40	141.93	142.33	124.36	87.37%
С	Community Health	-	294.97	294.97	242.16	82.10%
D	Sustainable Livelihood Development	•	466.40	466.40	359.85	77.15%
Е	Community Infrastructure Development	•	219.51	219.51	133.88	60.99%
F	EDM Recommended Projects	-	100.00	100.00	98.83	98.83%
	Total AF CSR Budget :	2.20	1,315.16	1,317.36	1,057.53	80.28%
[1]	Adani Vidya Mandir-Bhadreshwar	6.88	255.44	262.32	221.76	84.54%
[11]	Project Udaan-Mundra	•	314.74	314.74	248.20	78.86%
	TOTAL Budget with AVMB & UDAAN F.Y. 2022-23:	9.08	1,885.34	1,894.42	1,527.49	80.63%

#### સર્વે સંતુ નિરામયા, સર્વે ભદ્રાણી પચયન્તુ અદાણી ફાઉ. દ્વારા સ્ત્રીરોગ નિદાન કેમ્પમાં ૩૦૦ જેટલી બહેનોને નિઃશુલ્ક નિદાન અને સારવાર

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કચ્છની ગ્રામીણ મહિલાઓમાં 'પેડ વમન' માસિક અંગે જાગતિ ફેલાવી રહી છે

યુક્કાનમાં પ્રકાર લોકાશિયા, છારક સર્જેન, ગામોમાં કવાખાના લાગ આવતા આદાસાદે માટે છે. વડાની કાંઇસન ન્ક્રેસ્ટ બાળદીય, પ્રીડિંગ, બોલના નિયમિત દેશે આસંચની લામીલ સમુદાવના લોકોનું અને આપ્રશ્રી છતો. જનદાત લોગો,કોઇના દોલો છેલા. કેવા. સાચીલ સમુકાનને સમયાંનરે નિકાન વનાની Afficial representation from the fireful and a final final actual actual actual actual actual relationships. કેલ્દ ઓડિય -લેક્ટ્રના લેવા અને સરકોલથી અનેક્રમ સરકામાં આવેલે. જના અરકી જાય છે નાની હેપુકન ઉપકર્ય મુંદરા હલવાનાપૂર્વક લખગીરી થયા. જ્યારે આર્થિક દીતે નગળા. બને નજથી બીમાર્ટમાં તાલુકા वेश्व सार्वास्त स्ट्रांस्था । स्वां को का बच्च स्वां ઈ. એક. કી. અને એ લાંગી, મુંદર અને મળાર દઈઓને મજીવા દી મદલી અર્પ કરે અને કર માંત્રાદે ગ્રીગોલગ્રા લોમાં લોગો તાલુકાનો કુલ ૩૦ લાગોમાં તેરલીટલગ સારકાર દરમ્યાન જરૂરી લાગોગ્ય ગંભાઈ



મચ્છરના પોરા અને પોરા ભક્ષક માછલીનું નિદર્શન

### વિશ્વ મેલેરિયા દિનની ઉજવણીએ સપૂર્ણ સારવાર પર ભાર મૂકાયાં

્યુગ, લાંચ્યા કરામાં દિવા વેલેટેલ દિવની ઉપવક્ષી અમેરે વિવેધ કાર્યકર્યું તે આવેલ કરાયમાં ભાગું હતું. ભારત કૃત, કેલ્લાનો લાંકિકી આપવામાં આવી હતી.

૧, જુથ ચર્ચા, ચિત્ર સ્પર્ધા અને કેમ્પ યોજાયા કરવા દિવસના પ્રવાદ દિવસનુ અનેકરા કરાઇના આપી અક્ષરિયાન (કચ્છ આવૃત્તિ) **ગુજરાત રાગાચાર 3** refor multiplicage if the problem is the many against

સ્પેશિયલ ઈકોનોમી ઝોનની

અદાણી કાઉન્ડેશને વિશ્વ દિવ્યાંગ દિવસની

કરી અનોખી ઉજવણી

Sh stores

કચ્છમાં દિવ્યાંગો માટે છેલ્લા છ વર્ષથી કાર્યરત અદાશી કાઉન્ડેશન

દ્વારા વિશ્વ દિવ્યાંગ દિવસ નિમિત્તે

મન્દ્રા સ્પેશિયલ ઇકોનોમિક

સોનમાં રોજગારીની તક આપીને

દિવ્યાંગોને પગભર થવાનો સ્તૃત્ય

પ્રયાસ કરાયો હતો. આ માટે

કચ્છના 29 જેટલા ગામોમાંથી 53

જેટલા દિવ્યાંગોનો સંપર્ક કરી તેમની

અરજાઓ મંગાવવામાં આવી હતી.

જેમાં 41 નોકરીવાંછુઓએ અરજી



## મુન્દ્રાની પેડ વૂમન : સેનેટરી નેપકીન બનાવવાના

જેવી વધુ મહેલી આ કામકારી જોડાઇ કોંગ્રેજ વાખો અલ્લા-કેલી વહેલી પ્રકાર

many and us, and

#### સરકાર દ્વારા માર્કેટિંગ માટે હસ્તકલા મેળામાં સ્થાન અપાતા વેચાણને ટેકો અદાણી ફાઉન્ડેશન, આત્મા અને ખેતીવાડી મળ્યો : સરકારી હોસ્ટેલો દ્વારા ખરીદી કરાતાં મહિલાઓનું મનોબળ વધ્યું વિભાગ દ્વારા પ્રાકૃતિક ખેતી માટે તાલીમ

આંતરરાષ્ટ્રીય મિલેટ વર્ષ-૨૦૨૩ને સસંગત કાર્યક્રમનું સફળ આયોજન

ारको चताचार गामान्य स्वयंत्र रणको मुक्त पात प्राकृतिक पेत्रीन्तर्ने तार्वीय कार्यक्रम चालामे. २०५३ त्ये कां.स्ट्रास्ट्रीय पितंत्र वर्षेत्र स्ट्रीडे राज्याची घर्ड करी से नाले यसूनी यसू पे हुती आसूनिक चेत्रीयी चनकाम स्वार्ती की स्ट्रान की सून ग्रीमकाना

વારીમારી વર્ષિકારી કે તો, વર્ષ્યાન્ય પ્રશાસ હતું કે 'ઇસમાં યા કૃષ્યિક પ્રતાસ પુત્ર પ્રતાસન માત્રી રહ્યું છે ત્યારે ક્ષ્મ પ્રતાસન માત્રી રહ્યું છે. પ્રતાસ ક્ષ્મ પ્રતાસનો વાર્ષ્ય કરાઈ પ્રતાસ ક્ષ્મ પ્રતાસનો સામાના કરાઈ કર્યા sed on faxing sexual arbeitser તાના વર્ષ નોલા લખને મહતા દીવાલે?. દેશ ભારત દીવા ભપૂત પહોત્સવની દેવપાસી કરી રહ્યો છે

હાઉસ ખાતે ગ્રામ ભારતી-પ્રદર્શન યોજાયં. આ અદ્યાણી કાઉન્ડેશન સાથે જો.ડાયેલા છત્તીમગઢ. તામિલનાડ. મધ્યપ્રદેશ વગેરે રાજપોની મહિલાઓ જુપોએ ભાગ લીધો જેમાં મુંદ્રાના સ્વસહાય

દિવ્યાંગોને પગભર કરવાનો પ્રયાસ

New Security East time driver high

ઇમ્પેઝર લોજિસ્ટિક, અદાણી પોર્ટ, કર્યો હતો, વડાલાના દિવ્યાંગ

રડી શિપિંગ, વાઈબલ, હેફ કેટલ, ફાઉન્ડેશનના પ્રયાસો બિરદાવ્યા

નવીન ગ્રુપ, જે.એન. કે. ઈન્ડિયા, લપાભાઈ રબારીએ

મહિલા જુયોની હસ્તકળાએ વિશેષ આદર્પણ જમાવ્યું હતું.આ પ્રસંગ જુવના ચેરમેન ગોતમભાઈ અદાવી દારામંદ્રાની ૭૫/૩ઘમત્રીલ મહેનોની સફળ વાર્તાઓ પરાવતાં પુસ્તક "પ્રગતિ"નું લોકાર્પણ કરવામાં

હતી મંદ્રાના સ્વસહાય



લાઉન્ડેશન હારા મુકરાના ગુલી ગામની માળવિક તથા ઉભાનર માત્રવિક શાલામાં અભ્યાત જરીરવાતમંદ વાચ્છોને લુધી કરતા માર્ભિયાર સમુદાયના હયા

અદાશી શકન્દ્રેશન દ્વારા અન્ય પર્વદેશાતઘર ભાગાને સોલરક્ષિયના ચેક્તુ (સેતરક)

અન્ય દર્ભભરતિય મદદ દરવામાં આવી હતી. એસ એમ છે કાઈસ્ફ્રામા

આપાર્લ હાલેપોલા અલ્પરભાજ world end-barn over માહીયાર સમુદાવના ભાષકોને

#### અદાણી કોર્પોરેટ હાઉસમાં ગામડાની કળાને ઉજાગર કરતું 'ગ્રામ ભારતી' રરનું પ્રદર્શન

મહિલા શક્તિની આત્મનિર્ભરતાને સલામ! : ગામીણ ભારતની કળાને ગ્લોબલ બનાવવાનો પ્રચાસ



નતી, પરંતુ હતા. ત્રીદિવસીય પ્રદર્શનમાં દેષનીના કર્મચારીઓએભારે સંખ્યામાં લાબ લઈ ગ્રામજનોની કળાને વખાલી મહિલાઓએ માત્ર બે દિવસમાં ૧.૫૦

"અમારી મહેનોને સન્માન સાથે આ તક મળીતે ગીરવની વાત છે. અમો તવે આનાથી વધુ સારી ગુણવત્તા અને આકર્ષક ચીજવસ્તુઓ બનાવીને. ગ્રાનકોની જરૂરિયાતો સંતોષવાનો પ્રયાસ કરીશું,"આત્મવિશ્વાસથી કપાયાના શ્રદ્ધા સહેલી ગ્રુપના પ્રશાભાએ જણાવે છે કે "ગીતમ અદાશી સાહેબે

### અદાણી ફાઉન્ડેશન દ્વારા ''લમ્પી સ્ક્રીન ડીસીઝ'' થી બચાવવા સારવાર ચાલુ કરાઇ

#### નખત્રાણાના કુલાય-છારીઢંઢ વિસ્તાઃ ૯૭૩ જેટલા ઊંટોનું રસીકરણ કર ગાય વર્ગના પશુઓમાં આવેલી

વિશંષ પ્રતિભા ધરાવતા

कारे हो है. विशिवास ने बहेने प्राचल । बारे का प्राचन परिचार की नात नहीं है

સામારો છે. મિરિયામાં સર્વા આપ્તા સાથે ભાગવાના માના આંત્રા સાંત્રા કરે પાસ્ત્ર કરે પાસ્ત્ર



મહામારી માટે ફરતું મેડિકલ વાહનથી અપાતી સારવાર બદાવી કાઉન્ટેશન કાંગ માળમાં પ્રત વર્ગમાં વાલી કહેલી ભવેલ કવલેલ ભીમારીથી ભવાવવા મહે

લ્મલીઈ તાલ ધાવામાં માતી છે. નાદીમ ૨૦/૭/૨૦૨૨ થી મોટી

लाहुक पंचायतमा उपप्रमुखकी शतमार्थ ), पार्थ, पोर्टी पान्य सम्मा मात्र शर्मकारी मान्यकित दश्यानं भूषपुरस्य सं वरेशभार्ते भोग सन्य दीन तथा स्वयंत्री संस्था स्था भारतीय तथा स्वयंत्री संस्थ



મોતાલ, તટુવલ મોતાલ ભૂજપુર મોટીમાં સરસ્ય ભીમજાભાઇ નિજાન ઉપસંદયંત્ર માર્લકભાઈ ગઢવી. सीन विकेट " (LSD) ते ज्या चारामार्थ कामी, कामान्य कामे रीनविकास सामी – कामान्य काम कामीमार्थ कोमारी, महामान्य स्थापत

wellings and , are between અને કેવાજાવી કુવાનોએ ખૂબ

भा समा हैय करे हेक्किनी पशुस्ताकेने हैक्किसी प्रम क्रेस करे



અદારાઈ શાઉનોમાનના સહકારથી ચુંદરાના બી.આર.સી. ભવનમાં માંજાયેલા તાલુકા વિજ્ઞાનમંત્રામાં કૃતિ

## શાળાના છાત્રે કરાવ્યા પ્રતિભાના દર્શન

અવનવુ શીખે, અજમાવકા કરે, નાવિન્ય ડારા એતિહાસિક વિકાસ જ બાલ વૈજ્ઞાનિહોને પણ નવુ તોરા બોળી બતાવે અંતથા ગક્ષિત કેવા વિષયોનાં પ્રોત્સાહન રૂપે પ્રમાણાપત્ર, પેટ હેતુંસર નાના-મોટા આયોજન થતા રહે એ આવાવક છે. એ સંદર્ભે મુંદરા તાલુકા ક્લા એટલે કે બી.આર.સી. ક્યાના વિજ્ઞાન મેળાનું આયોજન પ્રભ હાઈસ્કુલના પ્રાંગશમાં કરવામાં

આવ્યું હતું. આ જી.એસ.આર.ટી.સી. ગાંધીનગર અને ડાયટ કોલેજ ભૂજના ૧૦૨ વિદ્યાર્થીઓએભાગ લીધો ટીપી.ઈ.ઓ. ઉમેશ દુવાલી, માર્ગદર્શન હેલ્લ કરવામાં આપ્યું હતાં. જેમાં સી.આર.સી. ક્લાએ ડી.પી.ઈ.ઓ. જયતીલાલ

અને કંપાસ પોક્સ આપી અભિવાદિત કરાવા હતા. તેમના માર્ગદર્શક શિયાને પશ પ્રોત્સાહિત કરવામાં આવ્યા હતા.

મુંદરા તાલુકાની શાળાના ખાળ વૈજ્ઞાનિકો, તેમના માર્ગદર્શકો, તાલુકા સી.આર.સી. મેજાર્સ, બી.આર.સી. સમીર આ મેળામાં પવ ગાળાના ચંદારાશા તેમજ તેમની ટીમ.

#### દહેજ, અદાણી ફોઉન્ડેશન દ્વારા

#### વાગરા તાલકુાની ૧૪ શાળામાં પ્રોજેક્ટ ઉત્થાન અંતર્ગત દિવાળી મેળો યોજાયો

અદાસી કોઇન્ડેલનના

પો.જેક્ટ ઉત્પાન અંતર્ગત દિવાળી વેળાનું આવી જન વાગરા તાલુકાની ૧૪ શાળામાં વેકેશન પ્રવૃતિના ભાગરૂપે થયું હતું. શાળા ઉપાસા જ વેકેશનમાં શિખેલી વાનાનોને પ્રદર્શન તાલુકાની લખીગામ, લુવરા, અર્થચર, કરેજ કત્યા અને કમાર શાળા, જોલવા. क्षया, रक्षियात, शेकियात, વેગળી અને હલાદરાની ભાષમિક શાળામાં પોજાપું હતું.

પાપમિક શાળામાં બાળકોની શોખવાની મુજબૂત હતી. પોલાય થી ટના કુલ હતો. ૧,૩૫૦ થી વધુ બાળકોએ સર્પેય,ઉપસરપંચ, જીસ્કૃતા છે. આ પ્રવૃત્તિ દારા બાળક



લામતાને સુધારવા ૧૪ લીધો હતો. વેડેશનમાં ચાલેલી ભાવકોએ સારી ૨૬મ ભેગી કાળાઓના ૧૨ ગામોમાં આ પ્રવૃત્તિના છેલ્લા દિવસે શાળામાં કરી હતી. વાસીનો કહેતા હતા ૧૦ દિવસીય દિવાળી દિવાળી મેળા સ્વકર્ષ બધા કે આ રીતે બાળકોમાં ઘરના રજાઓમાં પ્રવૃત્તિ કવામાં માવી પ્રથમ ખુલ્લો મુક્લામાં આવ્યો. સરકારો નું કિંગન શાય છે. ગામના, બાળક જવનના મુખ્યો શીધે

## રશિયાના વિદ્યાર્થીઓ કચ્છ અને પ્રોક્ષેક્ટ અંતર્ગત મુંદરા-માંગ્રી અહીંની સંસ્કૃતિથી વાકેક થયા

ભુજ, તા. ૧ : ઉત્પાન પ્રોજેક્ટ એ અદાવા કાઉન્ડેશન

દારા ૩૧ ગામની ૧૯ સરકારી પ્રાથમિક સાળામાં ૨૦૧૮થી શ્રાર્થરત છે. એક ઉત્પાન સહાયકની નિયલૂક વર્સ વિયાર્થીઓને દેગ્યુલર કરવા એકથી ચાર પોરણમાં અંગ્રેજી शीक्षवाना भूष्य सम्य आवे વિવિધ ભાંતિક સુવિધાઓ સાથે

વાળકના સર્વાંથી વિકાસ માટે

વિવિધ પ્રવૃત્તિ કરાય છે. બાળકના

વિકાસમાં ભળતરની સાપે

ता.नी ६७ शाणाना छात्रोनो વર્ચ અલ સવાદ પોજાપો



મુંદરા અને માંડવી તા.ની શાળાના છાલોના રક્ષિયાના વિરાધીઓ साथ वर्ष्युक्तल रूपाइनी तसवीर.

જંભી ખેતી અંગેના વિવિધ વર્ષનાઓએ ખેતી વિપયક

મુદાઓને આવરી લઈને એક માર્ગદર્શન પૂરું પાડ્યું હતું અને

જાગૃતિ શિબિર સુરત જિલ્લાના ખેડૂતોના પ્રશ્નોના ઉત્તર આપ્યા

કાઉન્ડેશન, તજીરા દારા લાવેકમમાં ઉપરપાતના ગોખવાલ

સમજભ વિક્તે તે આવશ્યક છે છે. હતી

અદાણી ફાઉન્ડેશન દ્વારા ઉમરપાડાના

ઉપરવાડા તાલુકાના ચોખવાડા હતો.

ગામ ખાતે મોજાઇ હતી. અદાશી

#### પ્રાથમિક શાળાને ૧૦ દેશના ૭૮ એક્ટીલીટી તેમજ શાળાની વિવિધ અનુભવ થકી ભાળકમાં શાળા પાર્ટનર શાળા તરીકે મળી લાયબ્રેરનું માળનું મુંદર રીતે રજૂ

# WHILE SHEETS CORE IN

अनुन्य हिन्दुस्तान संवाददात

सत्ताः अदारी पार्वदेशनः ह पुरा राज्यामा विकास का विकास २००० मती हो हो। तेल राज्य किया इस बैंग के बाद राज्य है।

आंदोलर किया। इस केंद्र में, परीक्षण के बाद कि शल्ब कामा, अवनी पहाडोशन को उपरपाद

सूत्र के देखर अस्पताल के एन अन तमीची को लिख्य तेनी के चोतानाह के असपका वे

अदानी फाउंडेशन ने उमरपाड़ा तालुका के चोंखवाड़ा गांव में मुफ्त स्वास्थ्य शिविर का आयोजन किया અદાણી ગયના ગામ ભારતીમાં પ્રદર્શિત થઈ અદાણી ગ્રુપના ગ્રામ ભારતીમાં પ્રદર્શિત થઈ





पंच जिल्ला केमर मेंजूर थे। का निजुल्ह राजा एवं कहें अन्य रोते में के अवस्थित अभिनेत्रमुख्य हैं हैं और उस के ऐसे के एक केम उद्दरकार हैं होता, वेनेटर बेहर, हिजनमा सन्दे होता હતો. કે લીકાર ૩૦ લાક્ષ્ક હતા, હતું. ભાર, કર્મ છે. કોલો ફિલ્ટા કરવાના કરાવે મારો માં કરવેલા કરાવી ફૂલ્ય મેરી કરાને ભારત માં મારા મહિલાની કરાવી ફુલ્યની, મેડન, કેરને સાથ મનુસર કરો. લ્લા માર્ચિક માલ્યા લાઈ આપણી ભૂલામાં લેવા લાગામાં ભારતિમાં એ કામ લાગામાં લાગામાં આવેલા તો માર્ચિક કર્યા લાગામાં માર્ચિક માલ્યા છે. તેના તારા કામ માર્ચિક માર્ચ માર્ચિક માર્ચ માર્ચિક માર્ચિક માર્ચ માર્ચિક માર્ચ માર્ચિક માર્ચ માર્ય क्षत है। अहिन्दी कहा जेवे व्यक्ति का उपने किया उसके में अपीक इस किया जैवेब का निवा किया कर्या है। अस्ति का अभी क्षेत्री का विशे विश्व विश्व कर्या करते हैं। असी क्षेत्री का विश्व विश्व विश्व विश्व करते हैं। असी क्षेत्री का विश्व विश्व विश्व विश्व करते हैं। असी क्षेत्री का विश्व विष्य विश्व विष समाप्त अपूर्ण के प्रोत्राप्त पात इस समाप्त विकास मार्थी में पात के वे पूर्ण गोर्थ से बात के कि प्राप्त के कि कि प्राप्त के कि प

#### अदाणी फाउंडेशन दहेज द्वारा वागरा तहसील के 14 स्कूलों में परियोजना उत्थान के तहत दीपावली मेले का आयोजन



## ૨૦ બાળકને પાંચ કરોડની સહાય

#### અદાણી કાઇન્ડેશન દ્વારા વાપણના રૂપમાં આપાયેલ રકમ શિક્ષણમાં મદદ ઉપ મનક

मार्थनगर वा १० મોરબોના ગુલતા યુવની ભનશીય દુર્દાનામાં યાતાના માર્ગમાં ઉછરી ચોલાં એક મહત્વા સમિત ૨૦ ભૂલકામાં કે જેમાં મ યાના-ચિના કે કોઇ મોર્ગ ગુપાયા क्षेत्रका नामान्य करक्या परी waterill and-term sold



#### પાડ્યાના એક પ્રયાસના ભાગાવ માટેવર્ગ જિલ્લા સમાહતાને સંક્રમનવાત સુપાલ કરતા થી. એસ. ગઢાઈ

#### કચ્છની ૫૯ શાળાઓમાં 'ઇકો ફ્રેન્ડલી' રક્ષાબંધનની ઉજવણી

 અદાણી ફાઉન્ડેશન પ્રકલ્પ ઉત્થાન પ્રોજેક્ટઅંતર્ગત વિવિધ દિવસોનો કરવામાં આવતી અનોખી રીતે ઉજવણી

કરા આપણા ( ભૂપ ભારત તહેવારોનો દેશ છે . તેમ લનેક તહેલાઇની ઉજવાદી પાલ રાષ્ટ્રીય તહેવારો ઉજવીએ છે.એ. માં સ્થાબંધન એ બાઈ બહેનનો માંત્ર સહાવાનો નારેવારે માનવામાં પોલાક્ટ અંતર્ગત પણ વિવિધ ઉપસોનો અનોખી રીતે ઉજાશી કરવામાં આવે છે. આ વખતે ડેલાન માળાઓમાં 'ઇકો ફેન્ડલી' લાભ્યનની ઉજવણી સરવાનુ

નહી કરવામાં આવ્યું હતું. ઉત્પાનનાં વિશાસીઓ

છે. આપણે પાર્મિકા શામાજિક અને नाये हो. चलती हाई-देवन बांच માના મેક ઉપયોગમાં માલવા ઉત્પાન

રાખર્ડિઓ નૈયાર કરીને એક છો છે आंधीने तेने अवस्य कर्ष हर्शियान



જાળામકારી છે. તે મહત્

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કાર્યા ઇજવા**લી** કરવામાં આવી

#### द्वापी किया द्वा की का आजाजि आधाना के को देने देन अरह दाती ने હેલ્થકેર સમિટમાં અદાણી ફાઉન્ડેશનને પ્રતિષ્ઠિત એવોર્ડ એનાયત કરવામાં આવ્યો

અદાણી ફાઉન્ડેશન પ્રદત્ત આરોગ્ય સેવાઓનું સન્યાન, ASSOCHAM એવોર્ડ્સમાં મળ્યું મોખરાનું સ્થાન આરોગ્ય ક્ષેત્રે કરેલી ઉત્કૃષ્ટ કામગીરીને હેલ્લકેર સમિટમાં બિરદાવાઈ प्रिक्ति भीत ध्रमी का क्रमान alfAppl wit folks orthog

ખેડૂત જાણતિ અંગેના આ

latter his distant તેમાં કન્યમાં દ્વાન માર્ગ હોંકે ખેતરા, કાલમાં આપો હતો. con proper with it રાજેનામાં ખેલાદિષ્ટેટ વેમના his free in Good his alread, we would in ઉત્તિમ હાલ નથી વિસ્તી માટે તાલોકાત તેલાકેર સમિતના આ અંજોડ્ડિયો ક્રિંગ દેશના અહીં મ હોર્દીઓ એલો એનાઓ એવાનાં લેવાઓને ગુલવાગુઓ, સુવસ

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ખેતી- ટપક

બદાવી કાઇન્ડેક્ટલ એક્ફ્રેલું, મુખ મોમન મેલ મ્યુનિટી હેલ્લ શાંજેક્ટને અલોલ્લ અને પરિવાર કરવાલ क्षारिकोत बेम्बर मात्र अन्तर्भ मंद्रकारमा जीव वर्षिय वेत्रीतिक તેના ઉન્સારી માંક ઇન્સિંગ, તેમજ મોલાવેયા હેલાડેર વેલોડોમાં લેવને પ્રાપ્ત પ્રાપ્ત પાક પાક માટે વિકારના કો વેર પર્શન અને 8. of Bot had business water and extensions ભોરમમાં આ કોમેલનો ટેલાફેલ - હોસ્સિલના મેળવર્નન છે. ઉપલબ્ધ માંદરના હતો માં હેમાં છે લેવો **ક્લુદ માટે ગ કેવામો** ડ્રા WENDERSHIPS FOR

sed sone mini and seasons New files word if he printed strike પ્રેક્સ મંત્રીએ મનાર માત્રા, જુરીયાત કાર્યા, પોપાયમ ફાઇનેશન ભારત કેવામોને છે. અને લેક્સ ઇન કેમ્પ્રીવેરી કેલ્લ. આરોગ્યસંખાન અંગે વર્ચી- સમિક્રિક કરેલા છેલાડના



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આકોલ્યાર્થ લેવાએમાં કરેલા એક આવા તતું જ તાલું દિવસ છે.

શ્રેવાઓ વર્તી લોકોને ઉત્તુર કરાંનોલન આજે ૧૦ કાંક્યોમાં

भारतमानी केवानो पूर्व पटचा . जिल्ला अमार्वाची पदाने हैं, ऐपी

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લ્લીન કેરામાં માટેલી છે. જેવાં નલીનતા, લોકપાસીદારી મને વર્ષિયો, કુપોલિક ભાવતો, સત્વોવને મૂર્ત ભારત આવતન મહિલાઓ, ડિડરીની કલતાથી અભિગય સાથે કાય કરે છે. વીડિક લોકો અને વૃદ્ધને કવામાં 3,300મેકિયનથી રહ્યું લોકોન વર્ડિયાનો પૂર્વ પાલ જેવી જરાને લાઇન અને પાર મુખ લેવાઓનો લવાવેલ પાલ છે. મેળે - દિવસ, સાવદાવિક triener ma 'Ann dia min' basina, and bermini fassi elic simulation in globa, their distinguest insures on क्रियोनका, स्वीतिका धार वेरिया क्रीने सम्बादने सबूद नोपंतिक आंश्रेक्ट्रस संचा है. ભાગવા તાલ જીવા કુંગો પ્રભાવો Creaming and confidence in માંજાર અને મારાંગ સંબંધિત

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## THANK YOU

## Annexure – 4



#### **Cost of Environmental Protection Measures**

Sr.	Activity	Cost i	Budgeted Cost (INR in Lacs)		
No.		2020 - 21	2021 - 22	2022 - 23	2022 - 23
1.	Environmental Study / Audit and Consultancy	6.2	6.82	7.32	11.05
2.	Legal & Statutory Expenses	10.58	10.52	12.32	12
3.	Environmental Monitoring Services	19.17	14.31	15.32	33
4.	Hazardous / Non-Hazardous Waste Management & Disposal	83.55	107.09	104.035	127.72
5.	Environment Days Celebration and Advertisement / Business development	5.3	4.04	2.53	8.00
6.	Treatment and Disposal of Bio- Medical Waste	2.09	2.14	2.29	2.04
7.	Mangrove Plantation, Monitoring & Conservation	32.59	53.6	35.0	35.0
8.	Other Horticulture Expenses	689	921	956	979
9.	O&M of Sewage Treatment Plant and Effluent Treatment Plant (including STP, ETP of Port & SEZ & Common Effluent Treatment Plant)	148.49	252.27	141.33	164.46
10.	Expenditure of Environment Dept. (Apart from above head)	89.11	149.8	90.136	75.79
	Total	1086.08	1371.79	1366.28	1448.06

## Annexure - 5

गुजरात विशेष आर्थिक क्षेत्र अधिनियम २००४ के अध्याय ७ की शर्तों के आधीन

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(नियम ५ के अनुसार) कारखाना चलाने के लिये नामांकन और लाइसेंस

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Vide letter Dt. ... I 10/2019 33001

Deputy Director

Industrial Safety & Health