

Ports and Logistics

24th May'2021

To,

Deputy Director General of Forest (Central),

Ministry of Environment, Forest & Climate Change Regional Office (WZ) - E-5, Kendriya, Paryavaran Bhavwan, Area Colony, Link Road No.- 3 Bhopal - 462016 (M.P)

E-mail: rowz.bpl-mef@nic.in, eccompliance-guj@gov.in

Sub : Half yearly Compliance report of Environment and CRZ clearance for the project namely "Construction of berthing & allied facilities off Tekra near Tuna, Gujarat"

Ref : 1) Environment and CRZ clearance issued to M/s Kandla Port Trust (KPT) vide letter no. 10-10/2008-IA-III dated 1st November, 2011 and transferred to M/s Adani Kandla bulk Terminal Private Limited (AKBTPL) vide letter no. 10-10/2008-IA-III dated 10th November, 2014

2) CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010.

Dear Sir,

Please find enclosed herewith point wise compliance reports of conditions stipulated in the above referred letters for the compliance period from October, 2020 to March, 2021.

Thank you,

Yours Faithfully,

For M/s Adani Kandla Bulk Terminal Pvt. Ltd.

Hiren Shah Authorized Signatory

Copy to:

The Director (Monitoring -IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003

The Director, Forests & Environment Department, Block - 14, 8th floor, Sachivalaya, Gandhi Nagar, Gujarat - 382 010

The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodra, Parivesh Bhawan, Opposite VMC Ward office No. 10, Subhanpura, Vadodra-390023

The Member Secretary, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector 10A, Gandhinagar-382010(Guj.)

The Regional Officer, Regional Office, GPCB - Kutch East, Room No.215-216, KPT administrative Building, Gandhidham, 370201

The Chief Engineer, Administrative Building, Deendayal Port Trust, Gandhidham 370201

Adani Kandla Bulk Terminal Pvt Ltd Adani House Nr Mithakhali Circle, Navrangpura

Tel +9179 2656 5801 Fax +9179 2555 6490 info@adani.com www.adani.com

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 000 autara Alndia

HELL ALEUMOUNICH LOVE OF IMAGE Ministry of Environment For

environment.akbtpl

From: environment.akbtpl
Sent: 26 May 2021 15:59

To: rowz.bpl-mef@nic.in; eccompliance-guj@gov.in

Cc: westzonecpcb@yahoo.com; ro-gpcb-kute@gujarat.gov.in; ms-gpcb@gujarat.gov.in;

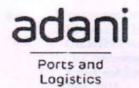
mefcc.ia3@gmail.com; monitoring-ec@nic.in; direnv@gujarat.gov.in; Hiren Shah; Ajitkumar Pisharody; Azharuddin Kazi; Bhagwat Swaroop Sharma; Shalin Desai;

Chiragsing Rajput

Subject: Half Yearly EC Compliance Report Submission - AKBTPL, Tuna - (Period : Oct'20 to

Mar'21)

Attachments: Half Yearly EC CRZ Complince Tuna - Oct'20 to Mar'21.pdf



To.

Deputy Director General of Forest (Central),

Ministry of Environment, Forest & Climate Change

Regional Office (WZ) - E-5, Kendriya,

Paryavaran Bhavwan, Area Colony,

Link Road No.- 3 Bhopal - 462016 (M.P)

E-mail: rowz.bpl-mef@nic.in, eccompliance-guj@gov.in

Sub : Half yearly Compliance report of Environment and CRZ clearance for the project namely " of berthing & allied facilities off Tekra near Tuna, Gujarat"

Ref :1) Environment and CRZ clearance issued to M/s Kandla Port Trust (KPT) vide letter no. 10-III dated 1st November, 2011 and transferred to M/s Adani Kandla bulk Terminal Pri-(AKBTPL) vide letter no. 10-10/2008-IA-III dated 10th November, 2014

CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tu
Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543June, 2010.

Dear Sir,

Please find enclosed herewith point wise compliance reports of conditions stipulated in the above re for the compliance period from October, 2020 to March, 2021.

Thank you,

Yours Faithfully,

For M/s Adani Kandla Bulk Terminal Pvt. Ltd.

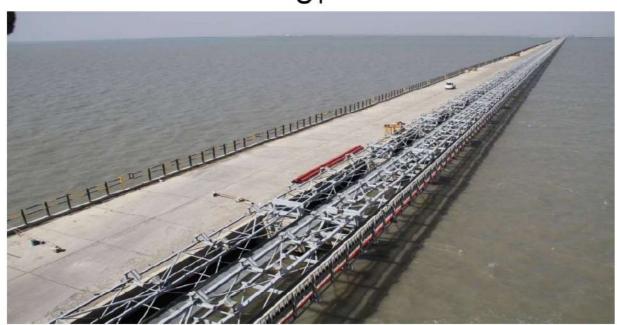
Hiren Shah

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Environmental and CRZ Clearance Compliance Report

Of



Construction of berthing & allied facilities off Tekra near Tuna, Gujarat

Of

Adani Kandla Bulk Terminal Pvt. Ltd.

For Period:

October 2020 to March 2021



Period:

From: Oct'20 To: Mar'21

Environmental and CRZ Clearance Letter issued by MoEF&CC

Period:

From: Oct'20 To: Mar'21

Compliance to Environmental and CRZ Clearance Letter issued by MoEF&CC

Environmental and CRZ clearance was obtained by Deendayal Port Trust (DPT) [Earlier named as Kandla Port Trust (KPT)] vide MoEF&CC letter dated 01.11.2011. AKBTPL and DPT entered in to concession agreement for development of the dry bulk terminal at Tuna on BOOT basis. Said clearance was then transferred to AKBTPL vide MoEF&CC letter dated 10.11.2014



Period: From : Oct'20 To : Mar'21

Half yearly Compliance report of Environment and CRZ Clearance issued by MoEF dated 1st November, 2011 bearing F. No. 10-10/2008-IA-III for Construction of berthing & allied facilities off Tekra near Tuna. Guiarat

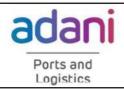
facilit	facilities off Tekra near Tuna, Gujarat		
Sr.	Condition	Compliance status	
No	CONTROL MARKET AND REPORT OF THE PERSON OF		
5.	Specific Condition		
(i)	"Consent for Establishment" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at site.	 Complied. Consent to Establishment (CtE) and Consent to Operate (CtO) is Obtained and renewed/amended from time to time as per the progress of the project activity. Construction activities are completed and the project is now in operation phase. The present in-force CtO & amended CTE are mentioned below 	
		Sr. No Permission Project Ref.No./Order No. Validity	
		1 Amendment In CTE AKBTPL CTE-101194 30.04.2024	
		2 CtO renewal AKBTPL AWH-105213 02.12.2024	
		 Copies of the stated permissions are already submitted as a part of half yearly compliance reports for the period of Oct'19to Mar'20. 	
(ii)	Scientific studies shall be carried out by some expert and reputed organization like BNHS focusing among other things the marine environment in general and preservation of mangroves in particular against any possible adverse impact due to creation of the proposed facilities.	 M/s. Gujarat Institute of Desert Ecology, Bhuj has conducted scientific studies for preservation and management of mangroves in May 2012. Details related to the same are already submitted as part of half yearly compliance report (Oct-14 to March-15) to MoEF & CC vide letter dated 11.05.2015 and there is no further change. Further, a study to ascertain tidal flushing in mangroves around the project area of the dry bulk terminal at Tuna was carried through M/s. GUIDE, Bhuj in April, 2014 when construction activities were ongoing. Details related to the same were already submitted as part of half yearly 	



		compliance report (Oct-2016 to March-
		2017).
		Further, in order to understand the
		impacts of the existing project activity on
		marine ecology, a study was carried out
		through M/s. GUIDE. Details related to
		the same were already submitted as part
		of half yearly compliance report (Oct-
		2016 to March-2017).
		It may be noted that GUIDE is one of the
		authorized agencies of Forest &
()		Environment dept. Govt. of Gujrat.
(iii)	Proponent shall explore the	Complied.
	possibilities of plantation of mangrove	Based on the scientific studies for
	in the entire mud flat areas and submit	preservation and management of
	the action plan to the Ministry prior to the commencement of the activity.	mangroves in May 2012 carried out by M/s. GUIDE it was suggested to DPT to
	the commencement of the activity.	carry out mangrove plantation in 500 ha.
		area.
		As agreed, AKBTPL has already
		completed Mangrove plantation in 250
		ha area at Sat Saida bet. Balance 250 ha.
		Mangrove plantation shall be carried out
		by DPT.
		Monitoring report prepared by M/s.
		GUIDE for mangrove plantation in 250 ha
		carried out at Sat Saida bet is submitted
		as part of half yearly compliance report
		(Oct-14 to March-15) to MoEF & CC vide letter dated 11.05.2015.
(iv)	The dredged material shall be reused	Complied.
(10)	for low level rising whenever possible	As per the study carried by IIT-Chennai
	and excess shall be dumped into sea at	the dredge material is not suitable for
	the designated dumping areas	
	identified based on mathematical	Capital dredging was completed by DPT
	model studies.	during the construction phase and the
		dredge material was disposed by DPT at a
		location identified by M/s. CWPRS, Pune
		in their study report.
		Annual Maintenance Dredging has been
		carried out Oct'20 to Mar'21 and Total
		1,62,497 Cum Dredge material was
		disposed at identified location.



(v)	Though the project proponent has	Complied.
	carried out EIA for individual components and it were examined by the committee before the issue of clearance, it is suggested that proponent shall update and submit a comprehensive EMP for the whole project and submit to the Ministry and Regional Office of the Ministry at Bhopal prior to commencement of the activity.	 EMP was updated by AKBTPL and submitted to DPT. DPT has submitted the same vide letter dated 03.12.2013 to MoEF&CC as part of compliance report. Further, said EMP was also submitted by AKBTPL as part of half yearly compliance report (Oct-14 to March-15) to MoEF & CC vide letter dated 11.05.2015 and there is no further change.
(vi)	The project proponent shall set up environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Complied. • AKBTPL has environment management cell with qualified manpower for implementation of environmental safeguards and management. The site environment team directly reports to the Site Head. Further, the site environment cell continuously remains in loop with Corporate Environment Cell. Please refer Annexure - 2 for further details.
(vii)	The funds earmarked for	Complied.
	environmental management plan shall be included in the budget and this shall not be diverted for any other purpose.	 Environmental Management Plan is in place and the funds earmarked (budgeted separately for the each financial year) are being utilized for effective implementation of environmental safeguards and environment monitoring. All the expenses related to environment management plan are recorded in advanced accounting system of the organization. Expenditure on environmental safeguards (including horticulture) is approx. INR456.77 Lakh for the period of Apr'20 to Mar'21. Please refer. Annexure – 1 for further details
6	General Condition	
(i)	Appropriate measures must be taken	Complied.
caned	while undertaking digging activities to	 Construction activities of the project are completed in March, 2015.



(ii)	avoid any likely degradation of water quality. Full support shall be extended to the	n d	he project is now in op o digging activities uring Oct'20 to Mar'21 plied.	are carried out
	officers of this Ministry/Regional Office at Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	• D	KBTPL is always extend the regulatory authorisit to the project site. The last of the last	orities during their st visit of Scientist Regional Office, and as part of half
(iii)	A six monthly monitoring report shall need to be submitted by the project proponent to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.	Gandhinagar & Gandhidham and Dept. o Forests & Env., Gandhinagar vide our lette dated 27.11.2020. Copy of the same is also		compliance report oring data for the was submitted to C @ Bhopal, Zonal aroda, GPCB @ am and Dept. of par vide our letter the same is also web site m/Downloads A as also submitted 2020 to all the se refer below for
		No.	Compliance period	Date of submission
		1	Oct'17 to Mar'18	16.05.2018
		2	Apr'18 to Sep'18	25.11.2018
		3	Oct'18 to Mar'19	16.05.2019
		4	Apr'19 to Sep'19	21.11.2019
		5	Oct'19 to Mar'20	11.05.2020
		6	Apr'20 to Sep'20	27.11.2020
		•	-	
(iv)	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or	• A	t Noted. Il applicable condition nvironment will be cor	



9.5	modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	
(v)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	 Point Noted. During the last compliance verification visit as mentioned in the sr. no ii of General Conditions above, there was no non-compliance observed.
(vi)	In the event of a change in the project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	 Complied. Details related to transfer of EC/CRZ clearance in the name of AKBTPL are submitted as part of half yearly compliance report (Oct-14 to March-15) to MoEF & CC vide letter dated 11.05.2015. Please refer point no. I of specific conditions for further details.
(vii)	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and date of start of land development work.	 Complied. DPT has informed about the Financial closure vide their letter no. EG/WK /4604(EC)/562 dated 26th December, 2012. There is no further change.
(viii)	A copy of the clearance letter shall be marked to concern Panchayat /local NGO, if any, from whom any suggestion /representation have been made, received while processing the proposal.	Condition is not applicable to AKBTPL.
(ix)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's office for 30 days.	Condition is not applicable to AKBTPL.
7	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 1994 including the amendments and rules made thereafter.	 Complied. Permissions under the applicable rules and acts mentioned are already obtained. Please refer point no. I of specific conditions for further details.



8	All other statutory clearances such as the approvals for the storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980, Wildlife (Protection) Act, 1972 etc shall be obtained as applicable by the project proponents from the respective competent authorities.	Not Applicable. The permissions from the authorities mentioned in the condition are not applicable to this project.
9	The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Env. Clearance and copies of clearances letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to RO of this Ministry at Bhopal.	• DPT has published advertisement regarding accordance of the Environmental and CRZ clearance within 10 days from the date of receipt of the Clearance letter in two local newspapers (Aaj Kal and Divya Bhaskar) and copy of the same was submitted to the Regional office, MoEF&CC Bhopal by DPT vide letter no. EG/WK/4604(EC)/1036 dated 25th November, 2011.
10	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.	 Noted and same will be complied based on further directions given by concerned authorities in this regard.
11	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Complied. • Please refer Point No. iii (Main Point 6 – General Condition) for compliance submission
12	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any from whom suggestions / representations, if any, were received while processing the	Complied. Clearance letter is uploaded on our website: https://www.adaniports.com/Downloads



	proposal. The clearance letter shall also be put on the website of the company by the proponent.	
13	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied. Please refer Above point no. 11 of General conditions
14	The environmental statement for each financial year ending 31st March in Form –V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied. Environment Statement for FY 2020– 21 has already been submitted to GPCB vide letter No. AKBTPL /ENVSTATEMENT /2020-21 dated 12.05.2021. Copy of the same is attached as Annexure – 3. The said Environment Statement is also uploaded on our website: https://www.adaniports.com/Downloads

Period:

From: Oct'20 To: Mar'21

Compliance to CRZ Recommendation Letter

Issued by Forest and Environment Department, Govt. of Gujarat



Period: From : Oct'20 To : Mar'21

bearin	g no. ENV-10-2009-1543-E dated 23rd Jun	e, 2010
Sr. No	Condition	Compliance
1	The provisions of the CRZ notification of 1991 and subsequent amendments issued from time to time shall be strictly adhered to by the KPT. No activity in contradiction to the provisions of the CRZ Notification shall be carried out by the KPT.	Omplied. All activities are in line with the CRZ Notification 1991 and its subsequent amendment.
2	No dredging reclamation or any other project related activities shall be carried out in the CRZ area categorized as CRZ I (i) and it shall have to be ensured that the mangroves habitats and other ecologically important and significant areas, if any, in the region are not affected due to any of the project activities.	 Complied. Construction of the project is completed in March, 2015. All construction activities were carried out as per the environmental and CRZ clearance granted vide MoEF&CC letter dated 01.11.2011. All necessary precautions such as allowing free flow of water in the mangrove areas, waste management as per the applicable laws, treatment of sewage, dust suppression measures etc. are taken to ensure that the mangroves habitats and other ecologically important and significant areas in the region are not affected due to any of the project activities.
3	The KPT shall participate financially for installing and operating the Vessel Traffic Management System in the Gulf of Kutch and shall also take lead in preparing and operational sing the Regional Oil Spill Contingency plan in the Gulf of Kutch.	 Complied. M/s Kandla Port Trust contributed an amount of INR 41.25 Cr for installing and operating VTMS in Gulf of Kutch. Information was submitted to MoEF&CC New Delhi (as part of half yearly compliance report (Apr – Sept, 2014) vide letter dated 13th November, 2014. Please refer condition No.15 regarding Oil spill contingency plan. Regional Level Pollution Response exercise "SWACHCHH SAMUDRA-NW 2019" was carried out by Indian Coast Guard on 18th Dec, 2019. All



Period: From : Oct'20 To : Mar'21

Sr. No	Condition	Compliance
NO		participants from various Oil Handling Agencies and Stakeholders (ICG, GMB Port, DPT Vadinar, IOCL, RIL, NAYARA Energy, BORL, ESBTL Salaya, APSEZL, HMEL, GSFC, PCB, Forest Dept., Customs, Fisheries & DPT Kandla) were participated in this exercise
4	The KPT shall strictly ensure that no creeks or rivers are blocked due to any activity at Kandla.	 Complied. No rivers are present at the project site. 3 Bridges and 8 culverts have been provided with total cost of 2.01 crores to allow free flow of water through creeks. Further, a study to ascertain tidal flushing in mangroves around the project area of the dry bulk terminal at Tuna was carried through M/s. GUIDE, Bhuj in April, 2014 when construction activities were ongoing. As outcome of that study is all water parameters are well within prescribe limit and no gross contamination could be discerned showing that the costal water in and around the jetty is clean and unpolluted. Also observed spatial variations in zooplankton density, composition were normal and no events negatively influencing the zooplankton community was noticed during the study. Details related to the same are already submitted as part of half yearly compliance report (Oct-2016 to March-2017). The conditions as mentioned in the report are maintained.
5	Mangrove plantation in an area of 1000 ha. Shall be carried out by the KPT within	Complied.



Period: From : Oct'20 To : Mar'21

bearin	earing no. ENV-10-2009-1543-E dated 23rd June, 2010		
Sr. No	Condition	Compliance	
	5 years in a time bound manner on Gujarat coastline either within or outside the Kandla Port Trust area and six monthly compliance reports along with the satellite images shall be submitted to Ministry of Environment and Forests as well as to this department without fail.	 AKBTPL being BOOT operator, DPT requested AKBTPL to carry out mangrove plantation in 250 ha area. As agreed, AKBTPL has completed Mangrove plantation in 250 ha area at Sat Saida bet. For further information regarding mangrove plantation activity, please refer reply to specific condition no ii and iii of the Environmental and CRZ clearance letter above. 	
6	No activities other than those permitted by the competent authority under the CRZ Notification shall be carried out.	Complied. • All activities are being carried out as per the Environmental and CRZ clearance granted vide MoEF&CC letter dated 01.11.2011, amended till date.	
7	No ground water shall be tapped for any purpose during the proposed expansion/modernization activities.	 AKBTPL does not draw any ground water for the water requirement. Present source of water for various operation activities is Narmada water through Gujarat Water Infrastructure Limited (GWIL). Present water consumption is 1142.98 KLD for the period of Oct'20 to Mar'21 	
8	All necessary permission from different Government Departments/ agencies shall be obtained by the KPT before commencing the expansion activities.	 Not applicable at present All construction activities are completed in March, 2015. No expansion activities are carried out. All necessary permissions will be obtained in future before commencing the expansion activities. However, an application for carrying out additional capital dredging in the existing approach channel, berth pockets and turning circles (in order to handle capsize vessels, not to expand 	



Period: From : Oct'20 To : Mar'21

bearin	bearing no. ENV-10-2009-1543-E dated 23rd June, 2010		
Sr. No	Condition	Compliance	
9 No effluent or sewage shall be discharged into the sea/creek or in the CRZ area and it shall be treated to conform to the norms prescribed by the Gujarat Pollution Control Board and would be reused/recycled within the plant premises.		the approved project activity) to obtain Environment and CRZ clearance is in process with the MoEF&CC. the said activity will be carried out only after obtaining the requisite permissions. Complied. No effluent is generated at the project site. 6.26KLD of sewage generated during the period of Oct'20 to Mar'21.is treated in 25 KLD capacities STP based on FAB technology and treated water is used for horticulture purpose within plant premises. Third party analysis of the treated water is being carried out once in a month by NABL and MoEF&CC accredited agency namely M/s. Pollucon Laboratories Pvt. Ltd. Summary of the same for duration from Oct-20 to Mar-21 is mentioned below.	
		Parameter Unit Max Min Perm.	
		pH - 7.76 6.83 6.5-9	
		TSS mg/L 26 13 30	
		BOD (3 Days mg/L 18 13 20 @ 27 °C)	
		Fecal MPN/100 540 350 <1000 Coliform ml	
		Please refer Annexure – 4 for detailed analysis reports. Total expenditures of the Environment monitoring for the period (Apr'20 to Mar'21) are INR 7.04 lakh.	
10	All the recommendations and suggestions	Complied.	
	given by the NIOT in their Comprehensive	The EMP prepared by NIOT in the EIA	
	Environment Impact Assessment report	report was updated by AKBTPL (based	
43	for conservation /protection and	on the condition mentioned in the EC	



Period: From : Oct'20

To : Mar'21

bearin	ring no. ENV-10-2009-1543-E dated 23rd June, 2010		
Sr. No	Condition	Compliance	
	betterment of environment shall be implemented strictly by the KPT.	and CRZ clearance) and submitted to DPT. DPT has submitted the same vide letter dated 03.12.2013 to MoEF&CC as part of compliance report. All the measures mentioned in the updated EMP prepared by AKBTPL are implemented for environment protection.	
11	The construction and operation activities	Complied.	
	shall be carried out in such a way that there is no negative impact on mangroves and other coastal/marine habitats. The construction activities and dredging shall be carried out only under the constant supervision and guidelines of the NIOT.	 All construction and operation activities are carried out meticulously to ensure that there is no negative impact on mangroves and other coastal / marine habitats. Please refer to Sr. no. ii and iii of the specific conditions of the EC and CRZ clearance above for further details. Construction activities have been completed in March, 2015 based on the NIOT recommendations. During construction phase capital dredging was carried out by DPT and the dredge material was disposed at a location identified by M/s. CWPRS, Pune in their study report. Annual Maintenance Dredging has been carried out Oct'20 to Mar'21 and Total 1,62,497 Cum Dredge material was disposed at identified location. 	
12	The KPT shall contribute financially for	Noted and same will be complied on	
	any common study or project that may be proposed by this Department for environmental management/ conservation / improvement for the Gulf of Kutch.	receipt of such recommendations from concerned authorities	
13	The construction debris and/or any other	Complied.	
	type of waste shall not be disposed-off into the sea, creek or in the CRZ areas.	 Construction of the project is completed in March, 2015. 	



Period: From : Oct'20 To : Mar'21

bearin	g no. ENV-10-2009-1543-E dated 23rd Jun	e, 2010
Sr. No	Condition	Compliance
	The debris shall be removed from the construction site immediately after construction is over.	
14	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by the construction labours.	Complied. Construction of the project is completed in March, 2015 and during construction of the project we have provided necessary amenities like sanitation, water supply and fuel to the construction labours. Also we have ensured that environmental conditions are not deteriorated by the construction labours during the construction activities.
15	The KPT shall regularly update its Local Oil Spill Contingency and Disaster Management Plan in consonance with the National Oil Spill and Disaster Contingency Plan and shall submit the same to the MoEF, GOI and this Department after having it vetted through the Indian Coast Guard.	 Complied. DPT is already having updated Disaster Management Plan as well as Oil Spill Contingency Plan. DPT has also executed MoU with oil companies i.e. IOCL, HPCL, BPCL etc. for setting up of their Tier I facility for combating Oil Spill at Kandla. Necessary action will be taken by AKBTPL in consultation with DPT to combat with emergency situations.
16	The KPT shall bear the cost of the external agency that may be appointed by this Department for supervision/ monitoring of proposed activities and the environmental impacts of proposed activities.	Noted and same will be complied on receipt of such recommendations from concerned authorities
17	The KPT shall take up massive greenbelt development activities in and around Kandla and also within the KPT limits.	 Complied. Plantation activity is an on-going process. As part of the same, greenbelt within and along the periphery of the back-up area is being developed on regular basis.



Period: From : Oct'20 To : Mar'21

bearin	ng no. ENV-10-2009-1543-E dated 23rd June, 2010				
Sr. No	Condition	Compliance			
		 Approx. 15.78 hectare area is developed till March'21 as greenbelt so far with various types of trees Approx.41452 plants and lawn. Please refer Annexure – 5 for further details regarding greenbelt development. Total expenditures of the horticulture dept. for the period of Apr'20 to Mar'21 are INR 38.17 lakh. 			
18	The KPT shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with the Forest and Environment Department and the District Collector/District Development Officer.	 Adani Foundation is the CSR wing of Adani group. All CSR activities are planned out at Tuna by Adani Foundation. AF works in the following four main areas: 1 Education 2 Community Health 3 Sustainable livelihood 4 Rural Infrastructure Development Various activities related to above mentioned areas are being carried out on regular basis for socio-economic up liftmen of surrounding villages by Adani Foundation. Details of the activities carried out are shared with FOKIA (Federation of Kutch Industries Association) chaired by District Collector quarterly. Total expenditures of the CSR activities are INR 85.05 lakh for the period Apr'20 to Mar'21. Please refer Annexure – 6 			
19	A separate budget shall be earmarked for environmental management and socio-economic activities and details thereof shall be furnished to this Department as well as the MoEF, Gol. The details with	for details. Complied. Main constituents of the environmental management plan are environmental monitoring; greenbelt development; mangrove plantation; maintaining bridges/ culverts for			



Period: From : Oct'20

To : Mar'21

20	Condition respect to the expenditure from this budget head shall also be furnished. A separate environmental management cell with qualified personnel shall be created for environmental monitoring and	disposal of wastes; mechanization operations etc. • Approximately INR 456.77 Lakh spent for various activities mentions here. Please refer to Annexure – 1 for details related to environment expenditures and Annexure – 6 for expenditures related to CSR activities. • Complied.
20	A separate environmental management cell with qualified personnel shall be	disposal of wastes; mechanization operations etc. • Approximately INR 456.77 Lakh spent for various activities mentione here. Please refer to Annexure – 1 for details related to environment expenditures and Annexure – 6 for expenditures related to CSR activities. • Complied.
2000 100	cell with qualified personnel shall be	1 To
	management during construction and operational phases of the project.	management cell with qualifie
The street was a second	An Environmental report indicating the changes, if any, with respect to the baseline environment quality in the coastal and marine environment shall be submitted every year by the KPT to this Department as well as to the MoEF, Gol.	Ambient Air Quality (twice in a week and Noise (once in a month) lev monitoring at 4 Nos locations and marine water and sediment



Period: From : Oct'20

To : Mar'21

Sr. No	Condition	Compliance					
		Night T	ime d	B(A) 6	9.9	17.1	70
		* as per N/ * as per CC	C&A gran	ited by GF			500 5 0
		locations: 2 Nos.			Rol	Bottom	
		ter	Unit	Max	Min	Max	Min
		рН		8.29	8.19	8.27	8.16
		TDS	mg/L	37316	35934	37846	36128
		TSS	mg/L	137	106	158	106
		BOD (3 Days @ 27 °C)	mg/L	3.6	2.8	ND*	ND*
		DO	mg/L	6	5.8	5.8	5.6
		Salinity	ppt	35.7	34.2	36.1	34.6
		COD	mg/L	27	20	21	17
		ND* - NOT DETECTED					
		Parameter I		Unit	Max	Sediment	Min
		Organic M	fatter	%	0.58		0.39
		Phosphoru		mg/kg	734		634
		Aluminiur		%	5.24		4.48
		Total Chro as Cr+3		mg/kg	234		126
		Manganes		mg/kg	784		614
		Iron as Fe		%	4.66	-	4.2
		Nickel as		% mg/kg	57	-	31 25
		Zinc as Zr		mg/kg mg/kg	63 138		103
		Lead as Pl		mg/kg	3	-	1.75
		ana	lysis i	reports pent f	exure - . Appro or all e	x. INF	R 7.0
		mor		g activi to Mar'			15
22	The KPT shall have to contribute	of A	pr'20 ed.	to Mar'	21.	\$ 1 DAG	A Sheet Colons
22	The KPT shall have to contribute financially to support the National Green	of A	pr'20 ed.	to Mar'		heme i	A Same Francis
22	TOTAL STATE OF THE	mor of A Complie • Nati	pr'20 e d. ional G	to Mar' Green C	21.		s bein
22	financially to support the National Green Corps Scheme being implemented in the	mor of A Complie • Nati	pr'20 e d. ional G lemen	to Mar' Green C ted by	21. orps Sc GEER	foun	s bein datior
22	financially to support the National Green Corps Scheme being implemented in the Gujarat by GEER Foundation, Gandhi agar,	mor of A Complie • Nati impl AKB	pr'20 ed. ional G lemen TPL r	to Mar' Green C ted by equest	21. orps Sc GEER ed GEE	foun R four	s bein datior
22	financially to support the National Green Corps Scheme being implemented in the Gujarat by GEER Foundation, Gandhi agar, in consultation with Forest and	mor of A Complie • Nati impl AKB to p	pr'20 ed. ional G lemen TPL r rovide	Green C ted by equest details	21. orps Sc GEER ed GEE s of the	foun R four progra	s bein datior ndatio
22	financially to support the National Green Corps Scheme being implemented in the Gujarat by GEER Foundation, Gandhi agar,	mor of A Complie • Nati impl AKB to p	pr'20 ed. ional G lemen TPL r rovide	Green C ted by equest details	21. orps Sc GEER ed GEE s of the	foun R four progra	s bein dation idatio am an
22	financially to support the National Green Corps Scheme being implemented in the Gujarat by GEER Foundation, Gandhi agar, in consultation with Forest and	mor of A Complie • Nati impl AKB to p fina nec	pr'20 ed. ional G lemen TPL r rovide ncial a	Green C ted by equest details assistan	orps Sc GEER ed GEE s of the nce req	R foun R four progra uired s be pro	s bein dation dation am an so tha
22	financially to support the National Green Corps Scheme being implemented in the Gujarat by GEER Foundation, Gandhi agar, in consultation with Forest and	mor of A Complie • Nati impl AKB to p fina nec	pr'20 ed. ional G lemen TPL r rovide ncial a	Green C ted by equest details assistan	21. orps Sc GEER ed GEE s of the	R foun R four progra uired s be pro	s bein dation dation am an so tha
22	financially to support the National Green Corps Scheme being implemented in the Gujarat by GEER Foundation, Gandhi agar, in consultation with Forest and	mor of A Complie • Nati impl AKB to p fina nece	pr'20 ed. ional G lemen TPL r rovide ncial a essary	Green C ted by equest details assistan suppo	orps Sc GEER ed GEE s of the nce req	R foun R four progra uired s be pro	s bein dation dation am an so tha ovided



Period: From : Oct'20

To : Mar'21

T casts	ng no. ENV-10-2009-1543-E dated 23rd June, 2010				
Sr. No	Condition	Compliance			
		international Day of Forests in 2014, at a school in Rampar, under National Green Corps. Details regarding the same were submitted as part of the compliance period Oct' 13 to Mar'14. Support will be extended to GEER foundation for any such activities in future			
23	A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by the KPT on a regular basis to this Department/MoEF, GOI.	Complied. For further details, please refer point no. iii (Main Point No. 6 – General Condition).			
24	The KPT before commencing any activity, at the location under the consideration, shall have the latest CRZ map prepared through one of the authorized agencies and the map shall have land use features within the area of 5 km radius from the location along with the HTL and LTL and CRZ boundary and inland if any or mangroves area shall be used for the proposed development.	Complied. CRZ map including land features prepared by institute of Remote sensing, Anna University, Chennai is already submitted by DPT to MoEF&CC vide letter no. EG/WK/4604 (EC)/146 dated 14.02.2012.			
25	The entire jetty and approach shall be constructed on piles to ensure the free flow of water and that no creeks are blocked in any way.	Complied. • As per the Environmental/ CRZ clearance obtained from MoEF&CC approach road of 2 km is constructed on rubble mound and 1.7 km approach road below low water line is constructed on piles. Entire jetty is constructed on piles. Bridges are constructed at three creeks and box/piped culverts are placed with total cost of 2.01 crores at various locations to allow free flow of water.			



Period: From : Oct'20

To : Mar'21

Sr.	ng no. ENV-10-2009-1543-E dated 23rd Jun	0, 20.0
No	Condition	Compliance
		Photographs of the same are already submitted as part of half yearly compliance report (Oct-14 to March-15 to MoEF & CC vide letter dated 11.05.2015 and there is no further change.
26	The KPT shall create a full-fledged and environmental cell for implementation of the Environment Management Programme and monitoring of the environmental parameters/post project monitoring.	Please refer above point no. (vi) o Specific conditions.
27	The KPT shall have to take up in-situ biodiversity conservation project for mangroves at least in 5 ha. of area in addition to plantation of mangrove in 1000 ha.	 5 ha in-situ biodiversity conservation project for mangroves is carried out a sat saida bet (location identified by DPT). M/s GUIDE has prepared a fina report of the same. Details related to the same are already submitted (as part of half yearly compliance report Apr-2017 to Sep-2017.
	General conditions	
28	A separate budget shall be earmarked for environmental management and socio-economic activities and details thereof shall be furnished to this Department as well as the MoEF, Gol. The details with respect to the expenditure from this budget head shall also be furnished.	Complied. Please refer point no. 19 above for the reply to this condition.
29	Any other condition that may be stipulated by this Department from time to time for environment protection	Agreed.



Period:

From : Oct'20 To : Mar'21

Sr. No	Condition	Compliance
	/management purpose shall also have to be complied with by the KPT.	



Period:

From: Oct'20 To: Mar'21

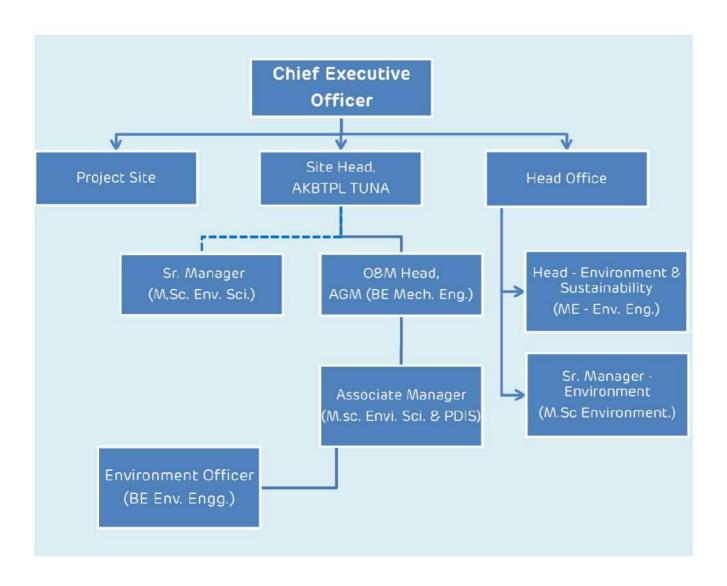
Annexure- 1: Expenditure Details on Environmental Safeguards

Sr.	Activity		Budgeted Cost (INR in Lacs)		
No.	***	2018 - 19	2019 - 20	2020 - 21	2020 - 21
1.	Environmental Monitoring	8.61	8.12	7.04	7.19
2.	Environment Days Celebration	0.72	1.03	0.82	2.0
3.	Greenbelt development	24.28	43.64	38.17	38.55
4.	Treatment and Disposal of Bio-medical Waste	0.80	0.79	0.84	0.92
5.	Hazardous/Non Hazardous waste management & Disposal	5.92	7.36	11.95	14.72
6.	O&M of sewage treatment plant and OWC plant	6.94	7.53	7.35	7.36
7.	Firefighting Equipment.				
8	Dust Suppression.	191.58	221.73	223.21	250.03
9.	Maintenance of conveyor belt.	66.5	87.40	167.39	239.87
	Total	305.35	377.06	456.77	560.64

Period:

From: Oct'20 To: Mar'21

Annexure - 2: Environmental Management Cell



Period:

From: Oct'20 To: Mar'21

Annexure - 3

(FORM-V)

Environmental Statement for 2020-21



PCB ID: 46110

Ref No. AKBTPL/ENVSTATEMENT/2020-21

Date: 20th April, 2021

To, Member Secretary Gujarat Pollution Control Board Paryavaran Bhavan, Sector-10-A, Gandhinagar-382010

Sub: Environmental Statement for the financial year ending 31st March, 2021 for M/s

Adani Kandla Bulk Terminal Pvt Ltd (AKBTPL)

Ref: PCB ID: - 46110, Consent Order No. AWH - 105213

Dear Sir,

With reference to the above mentioned subject and reference, please find enclosed Environmental Statement in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for M/s Adani Kandla Bulk Terminal Pvt Ltd, Ta. Anjar for the financial year ending 31st March 2021.

Thank you,

For, Adani Kandla Bulk Terminal Pvt Ltd

Authorised Signatory Ajit Pisharody (OSM Head - AKBTPL)

Encl: As above.

Received
Received
Regional Office
Regional Office
Kutch (East)

Copy to:

1. The Regional Officer, Gujarat Pollution Control Board, Gandhidham.

Adani Kandla Bulk Terminal Pvt Ltd Adani House, Nr Mithakhali Circle, Navrangpura Ahmedabad 380 009 Gujarat, India CIN: U63090GJ2012PTC069305 Tel +9179 2656 5801 Fax +9179 2555 6490 info@adani.com www.adani.com

Registered Office: Adani House, Nr Mithokhali Circle, Navro'ngpura, Ahmedabad 380 009, Gujarat, India

Period:

From: Oct'20 To: Mar'21

Annexure - 4

(Six Monthly Environment Monitoring Report)

(Oct'20 to Mar'21)



Cleaner Production / Waste Minimization Facilitator

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

"ENVIRONMENTAL MONITORING REPORT"

For

ADANI KANDLA BULK TERMINAL PRIVATE LIMITED. KANDLA, KUTCH.

OCTOBER 2020 TO MARCH 2021

H. T. Shah Lab Manager





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METHODS AND EQUIPMENTS USED FOR SAMPLING AND ANALYSIS

SR. NO.	Monitoring Details	Equipments Used	Sampling and Analysis Method
1	Ambient Air Quality Monitoring	RDS,FDS, Gaseous Attachment with Impinger	CPCB Guideline/IS:5182
2	Noise Monitoring	Noise Meter	IS 9876/IS 9989
3	Sea Water Monitoring	Depth Sampler	IS:3025/APHA/USEPA/ASTM
4	Sea Sediment Monitoring	Grab Sampler	CPCB Guideline/ IS/APHA/USEPA/ASTM
5	Drinking Water Analysis	Sealed & Sterile Bottle	IS:10500:2012
6	Sewage water Analysis	Sealed & Sterile Bottle	APHA/IS:3025
7	Stack Monitoring	Stack Monitoring Sampler/Kit	IS:11255/NDIR Gas Analyzer
8	Dump Pond Discharge	Sealed & Sterile Bottle	APHA/IS:3025
9	Wind Rose Diagram	Online Weather Station	Wind Rose Plotting Software

H. T. Shah Lab Manager





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NATIONAL AMBIENT AIR QUALITY STANDARDS DATED 16TH NOV.2009, CPCB NEW DELHI.

SR. NO.	TEST PARAMETER	UNIT	Concentration in ambient air	Method Of Measurement
1	Particulate Matter (PM ₁₀)	µg/m³	100	IS:5182(Part 23) SOP AAQM SPM -01
2	Particulate Matter (PM _{2.5})	µg/m³	60	SOP AAQM PM2.5 - 06
3	Sulphur Dioxide (SO ₂)	μg/m³	80	IS:5182(Part 2): Improved West and Gaeke
4	Oxides of Nitrogen (NO ₂)	μg/m³	80	1S:5182(Part6)Modified Jacob &Hochheiser (Na-Arsenite)

NS#: Not Specified, ** National Ambient Air Quality Standards Dated: 18/11/2009 as per Central Pollution Control Board, New Delhi.

H. T. Shah Lab Manager





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TABLE NO. 1 RESULTS OF AAQM FOR LC GATE NO.2 [OCTOBER 2020 - MARCH 2021]

Sr No.	Date of Sampling	Particulate Matter (PM ₁₀) (µg/m³)	Particulate Matter (PM _{2.5}) (µg/m³)	Sulphur Dioxide (SO₂)(µg/m³)	Oxides of Nitrogen (NO ₂) (µg/m ³)
1	01/10/2020	64.52	28.62	8.43	21.52
2	05/10/2020	56.23	24.58	17.86	24.24
3	08/10/2020	44.52	18.62	12.38	31.62
4	12/10/2020	59.51	30.29	7.25	18.53
5	15/10/2020	70.23	35.33	10.30	22.65
6	19/10/2020	63.54	43.57	14.30	26.04
7	22/10/2020	58.35	23.41	19.61	29.24
8	26/10/2020	74.26	34.53	9.26	25.59
9	29/10/2020	60.36	27.66	6.48	23.23
10	02/11/2020	67.21	25.66	18.78	31.52
11	05/11/2020	55.24	22.62	13.38	23.47
12	09/11/2020	62.53	34.53	15.37	18.63
13	12/11/2020	52.65	26.24	8.65	21.85
14	16/11/2020	68.28	30.16	11.36	24.57
15	19/11/2020	50.37	24.33	9.37	28.42
16	23/11/2020	76.24	40.28	14.83	32.57
17	26/11/2020	61.68	27.24	17.31	26.23
18	30/11/2020	51.27	23.41	10.46	30.23
19	03/12/2020	56.67	20.36	16.97	34.25
20	07/12/2020	66.82	33.46	12.57	25.65
21	10/12/2020	73.58	30.31	18.30	30.64
22	14/12/2020	50.26	23.43	6.56	16.43
23	17/12/2020	72.65	34.54	8.65	31.22
24	21/12/2020	57.55	25.25	13.45	29.47
25	24/12/2020	62.47	32.55	11.42	17.86
26	28/12/2020	58.35	28.20	7.58	21.33
27	31/12/2020	70.85	35.66	9.31	20.28
28	04/01/2021	50.67	26.29	19.73	25.46
29	07/01/2021	63.41	37.57	14.51	28.40
30	11/01/2021	58.38	29.52	16.84	22.45
31	14/01/2021	71.61	38.65	7.91	26.31
32	18/01/2021	62.31	33.46	12.73	19.69
33	21/01/2021	55.36	27.62	10.41	23.26
34	25/01/2021	70.32	36.24	8.49	20.62
35	28/01/2021	65.35	32.47	11.42	24.58
36	01/02/2021	65.33	33.67	15.31	29.34
37	04/02/2021	57.63	30.40	19.24	23.74
38		52.65	25.63	11.43	20.33
39	08/02/2021 11/02/2021	60.35	32.34	16.29	28.29
40	15/02/2021	66.52	27.66	18.63	24.22
41	18/02/2021		in the second se		
		58.36	31.27	12.65	27.53
42	22/02/2021	71.27	26.50	9.62	18.67
43	25/02/2021	67.34	29.65	13.34	22.42
44	01/03/2021	72.62	28.45	16.24	26.22
45	04/03/2021	64.37	22.60	12.67	22.43
46	08/03/2021	74.25	36.57	8.67	19.63
47	11/03/2021	50.21	29.44	14.81	25.32
48	15/03/2021	63.21	26.37	17.66	36.57
49	18/03/2021	70.24	35.45	11.32	28.62
50	22/03/2021	52.61	25.46	7.63	24.52
51	25/03/2021	78.21	44.25	10.63	20.67
52	29/03/2021	60.56	33.43	9.66	17.87

H. T. Shah Lab Manager





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TABLE NO. 2 RESULTS OF AAQM FOR STARTING OF PILE APPROACH [OCTOBER 2020 - MARCH 2021]

Sr No.	Date of Sampling	Particulate Matter (PM ₁₀) (μg/m ³)	Particulate Matter (PM _{2.5}) (μg/m ³)	Sulphur Dioxide (SO ₂)(µg/m ³)	Oxides of Nitrogen (NO ₂) (µg/m ³)
1	01/10/2020	76.28	45.24	16.90	30.22
2	05/10/2020	84.56	48.24	23.41	34.20
3	08/10/2020	67.51	30.29	21.29	40.26
4	12/10/2020	82.86	42.37	17.54	31.34
5	15/10/2020	75.68	38.49	13.52	36.28
6	19/10/2020	85.64	47.24	22.65	41.36
7	22/10/2020	79.61	41.58	20.58	32.65
8	26/10/2020	88.28	44.24	18.61	35.32
9	29/10/2020	74.32	34.24	15.26	38.22
10	02/11/2020	73.64	31.58	20.25	36.33
11	05/11/2020	68.32	36.28	10.58	31.25
12	09/11/2020	80.24	45.37	19.28	33.55
13	12/11/2020	58.65	34.37	15.89	29.45
14	16/11/2020	82.38	39.24	21.22	32.45
15	19/11/2020	69.32	32.62	16.19	38.23
16	23/11/2020	81.26	46.28	18.60	34.53
17	26/11/2020	67.37	30.49	25.61	40.26
18	30/11/2020	75.63	40.24	14.56	35.24
19	03/12/2020	75.38	35.68	24.27	41.21
20	07/12/2020	86.26	44.60	16.62	37.54
21	10/12/2020	79.33	38.51	20.39	34.32
22		69.35	26.34	18.24	40.22
23	14/12/2020	85.34			
24	17/12/2020		41.26	25.65	38.32
25	21/12/2020	68.35	34.26	15.86	35.63
	24/12/2020	83.21 78.26	40.26 36.26	22.34 14.20	39.22 29.62
26	28/12/2020				
27	31/12/2020	81.26	43.51	19.64	32.84
28	04/01/2021	70.61	38.47	25.48	35.41
29	07/01/2021	82.48	43.64	15.33	32.54
30	11/01/2021	74.24	39.47	22.61	37.56
31	14/01/2021	86.22	48.60	20.44	28.20
32	18/01/2021	71.23	45.31	16.48	31.62
33	21/01/2021	66.58	30.22	19.49	36.26
34	25/01/2021	75.68	41.22	17.66	29.26
35	28/01/2021	81.55	44.60	21.23	38.29
36	01/02/2021	76.28	41.35	18.22	36.57
37	04/02/2021	80.34	45.31	25.61	42.36
38	08/02/2021	77.28	35.64	28.24	32.64
39	11/02/2021	85.67	47.51	23.44	35.34
40	15/02/2021	72.46	42.55	15.45	30.38
41	18/02/2021	69.37	38.43	20.44	37.28
42	22/02/2021	87.27	46.31	13.52	26.25
43	25/02/2021	75.43	40.22	16.57	23.44
44	01/03/2021	77.57	34.51	20.53	30.49
45	04/03/2021	85.67	36.51	23.25	33.45
46	08/03/2021	79.53	54.27	18.22	38.57
47	11/03/2021	69.65	37.55	21.25	42.65
48	15/03/2021	75.41	39.44	14.63	39.61
49	18/03/2021	86.24	45.69	22.40	35.43
50	22/03/2021	78.66	38.53	19.29	32.44
51	25/03/2021	92.42	52.55	17.85	28.57
52	29/03/2021	68.34	40.53	13.56	29.48

H. T. Shah Lab Manager





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TABLE NO. 3 RESULTS OF AAQM FOR SOUTH WEST CORNER AT PUMP HOUSE [OCTOBER 2020 - MARCH 2021]

01/10/2020 05/10/2020 08/10/2020 12/10/2020 12/10/2020 15/10/2020 19/10/2020 22/10/2020 26/10/2020 29/10/2020 02/11/2020 05/11/2020 09/11/2020 12/11/2020 16/11/2020 23/11/2020 26/11/2020 26/11/2020 30/11/2020 03/12/2020 07/12/2020	59.35 68.52 52.65 72.61 58.56 73.55 69.28 80.22 66.27 54.38 63.48 72.83 45.61 62.63 57.51 64.22	24.33 28.62 21.50 23.66 27.54 34.49 26.24 39.45 30.24 21.54 26.54 42.62 20.62 34.53	12.47 14.53 19.50 10.20 8.25 18.53 16.38 11.54 9.63 9.65 15.32 17.58 6.28	23.40 27.86 34.38 20.59 25.43 31.77 21.21 28.57 19.64 20.49 26.54 23.18 16.84
08/10/2020 12/10/2020 15/10/2020 15/10/2020 19/10/2020 22/10/2020 26/10/2020 29/10/2020 02/11/2020 05/11/2020 09/11/2020 12/11/2020 16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 30/11/2020	52.65 72.61 58.56 73.55 69.28 80.22 66.27 54.38 63.48 72.83 45.61 62.63 57.51	21.50 23.66 27.54 34.49 26.24 39.45 30.24 21.54 26.54 42.62 20.62 34.53	19.50 10.20 8.25 18.53 16.38 11.54 9.63 9.65 15.32 17.58 6.28	34.38 20.59 25.43 31.77 21.21 28.57 19.64 20.49 26.54 23.18
12/10/2020 15/10/2020 19/10/2020 22/10/2020 26/10/2020 29/10/2020 02/11/2020 05/11/2020 09/11/2020 12/11/2020 16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	72.61 58.56 73.55 69.28 80.22 66.27 54.38 63.48 72.83 45.61 62.63 57.51	23.66 27.54 34.49 26.24 39.45 30.24 21.54 26.54 42.62 20.62 34.53	10.20 8.25 18.53 16.38 11.54 9.63 9.65 15.32 17.58 6.28	20.59 25.43 31.77 21.21 28.57 19.64 20.49 26.54 23.18
15/10/2020 19/10/2020 22/10/2020 26/10/2020 29/10/2020 02/11/2020 05/11/2020 09/11/2020 12/11/2020 16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	58.56 73.55 69.28 80.22 66.27 54.38 63.48 72.83 45.61 62.63 57.51	27.54 34.49 26.24 39.45 30.24 21.54 26.54 42.62 20.62 34.53	8.25 18.53 16.38 11.54 9.63 9.65 15.32 17.58 6.28	25.43 31.77 21.21 28.57 19.64 20.49 26.54 23.18
19/10/2020 22/10/2020 26/10/2020 26/10/2020 29/10/2020 02/11/2020 05/11/2020 09/11/2020 12/11/2020 16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	73.55 69.28 80.22 66.27 54.38 63.48 72.83 45.61 62.63 57.51	34.49 26.24 39.45 30.24 21.54 26.54 42.62 20.62 34.53	18.53 16.38 11.54 9.63 9.65 15.32 17.58 6.28	31.77 21.21 28.57 19.64 20.49 26.54 23.18
22/10/2020 26/10/2020 29/10/2020 02/11/2020 05/11/2020 09/11/2020 12/11/2020 16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	69.28 80.22 66.27 54.38 63.48 72.83 45.61 62.63 57.51	26.24 39.45 30.24 21.54 26.54 42.62 20.62 34.53	16.38 11.54 9.63 9.65 15.32 17.58 6.28	21.21 28.57 19.64 20.49 26.54 23.18
26/10/2020 29/10/2020 02/11/2020 05/11/2020 09/11/2020 12/11/2020 16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	80.22 66.27 54.38 63.48 72.83 45.61 62.63 57.51	39.45 30.24 21.54 26.54 42.62 20.62 34.53	11.54 9.63 9.65 15.32 17.58 6.28	28.57 19.64 20.49 26.54 23.18
29/10/2020 02/11/2020 05/11/2020 09/11/2020 12/11/2020 16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	66.27 54.38 63.48 72.83 45.61 62.63 57.51	30.24 21.54 26.54 42.62 20.62 34.53	9.63 9.65 15.32 17.58 6.28	19.64 20.49 26.54 23.18
02/11/2020 05/11/2020 09/11/2020 12/11/2020 16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	54.38 63.48 72.83 45.61 62.63 57.51	21.54 26.54 42.62 20.62 34.53	9.65 15.32 17.58 6.28	20.49 26.54 23.18
05/11/2020 09/11/2020 12/11/2020 16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	63.48 72.83 45.61 62.63 57.51	26.54 42.62 20.62 34.53	15.32 17.58 6.28	26.54 23.18
09/11/2020 12/11/2020 16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	72.83 45.61 62.63 57.51	42.62 20.62 34.53	17.58 6.28	23.18
12/11/2020 16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	45.61 62.63 57.51	20.62 34.53	6.28	
16/11/2020 19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	62.63 57.51	34.53		16.84
19/11/2020 23/11/2020 26/11/2020 30/11/2020 03/12/2020	57.51	A102-0-10-0-1		
23/11/2020 26/11/2020 30/11/2020 03/12/2020			16.51	19.86
23/11/2020 26/11/2020 30/11/2020 03/12/2020	64.22	27.20	13.24	32.41
30/11/2020 03/12/2020	04.22	36.45	10.20	24.65
30/11/2020 03/12/2020	53.54	22.37	19.57	21.76
03/12/2020	60.24	32.66	8.44	27.37
	68.25	25.68	13.54	21.58
3111414040	60.63	30.20	7.63	32.58
10/12/2020	56.35	27.59	11.59	18.26
14/12/2020	62.61	18.67	9.48	31.33
17/12/2020	80.47	38.50	15.39	35.35
21/12/2020	52.67	21.20	8.37	20.40
24/12/2020	70.23	35.47	14.59	33.45
28/12/2020	50.31	23.48	10.86	24.51
31/12/2020	76.38	28.63	17.56	16.52
04/01/2021	63.22	22.36	16.27	28.66
07/01/2021	71.56	32.36	9.29	22.64
11/01/2021	52.62	25.35	12.65	33.63
14/01/2021	78.56	41.53	15.68	24.21
18/01/2021	50.26	26.35	19.36	21.55
21/01/2021	44.96	18.67	14.25	27.57
25/01/2021	62.51	31.28	11.26	23.65
28/01/2021	73.14	35.64	13.68	26.56
01/02/2021	70.22	38.38	10.37	18.52
- 2000 A				31.53
- rensituration and the	THE RESERVE OF THE PERSON OF T		NATIONAL DESIGNATION OF THE PROPERTY OF THE PR	25.34
				21.55
				27.66
				22.34
				15.69
				19.23
	and the second s			17.58
		4		25.62
				35.54
				16.55
				33.53
				18.54
				28.34
22/03/2021				34.52 26.33
	04/02/2021 08/02/2021 11/02/2021 15/02/2021 18/02/2021 22/02/2021 25/02/2021 01/03/2021 04/03/2021 08/03/2021 11/03/2021 15/03/2021 18/03/2021	04/02/2021 66.38 08/02/2021 58.68 11/02/2021 69.90 15/02/2021 56.36 18/02/2021 63.42 22/02/2021 76.34 25/02/2021 61.53 01/03/2021 67.62 04/03/2021 59.32 08/03/2021 64.21 11/03/2021 56.31 15/03/2021 69.31 18/03/2021 80.21 22/03/2021 58.27 25/03/2021 70.62	04/02/2021 66.38 35.47 08/02/2021 58.68 29.42 11/02/2021 69.90 37.55 15/02/2021 56.36 34.56 18/02/2021 63.42 26.51 22/02/2021 76.34 30.37 25/02/2021 61.53 33.61 01/03/2021 67.62 31.49 04/03/2021 59.32 26.26 08/03/2021 64.21 30.43 11/03/2021 56.31 33.32 15/03/2021 69.31 36.62 18/03/2021 80.21 40.52 22/03/2021 58.27 29.63 25/03/2021 70.62 38.55	04/02/2021 66.38 35.47 16.27 08/02/2021 58.68 29.42 14.50 11/02/2021 69.90 37.55 12.27 15/02/2021 56.36 34.56 9.34 18/02/2021 63.42 26.51 13.54 22/02/2021 76.34 30.37 6.51 25/02/2021 61.53 33.61 11.23 01/03/2021 67.62 31.49 14.24 04/03/2021 59.32 26.26 17.57 08/03/2021 64.21 30.43 11.41 11/03/2021 56.31 33.32 16.58 15/03/2021 69.31 36.62 7.53 18/03/2021 80.21 40.52 9.52 22/03/2021 58.27 29.63 13.29 25/03/2021 70.62 38.55 15.16

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TABLE NO. 4 RESULTS OF AAQM FOR NORTH EAST CORNER OF BACK UP AREA [OCTOBER 2020 - MARCH 2021]

Sr No.	Date of Sampling	Particulate Matter (PM ₁₀) (µg/m³)	Particulate Matter (PM _{2.5}) (μg/m ³)	Sulphur Dioxide (SO ₂)(µg/m³)	Oxides of Nitrogen (NO ₂) (µg/m ³)
1	01/10/2020	69.56	41.24	14.97	27.53
2	05/10/2020	79.36	37.58	25.28	30.62
3	08/10/2020	60.28	26.58	17.22	37.68
4	12/10/2020	77.57	33.45	13.78	25.34
5	15/10/2020	82.64	44.24	18.25	31.26
6	19/10/2020	91.56	52.45	16.29	28.36
7	22/10/2020	86.37	47.57	24.67	38.64
8	26/10/2020	93.22	54.24	21.49	32.43
9	29/10/2020	80.38	38.41	19.31	35.62
10	02/11/2020	59.32	35.49	24.84	40.34
11	05/11/2020	73.84	31.54	20.40	35.83
12	09/11/2020	85.62	48.66	23.33	38.51
13	12/11/2020	63.53	32.58	11.55	33.45
14	16/11/2020	87.24	45.32	19.86	28.86
15	19/11/2020	77.60	36.28	21.55	41.67
16	23/11/2020	89.22	52.66	16.65	27.62
17	26/11/2020	74.53	34.24	22.37	34.63
18	30/11/2020	68.62	37.53	17.26	39.52
19	03/12/2020	84.28	31.24	20.51	37.34
20	07/12/2020	72.51	40.23	18.64	28.28
21	10/12/2020	86.38	47.25	25.38	39.81
22	14/12/2020	75.87	36.30	14.59	34.50
23	17/12/2020	91.25	50.22	22.90	41.57
24	21/12/2020	74.58	38.22	11.19	22.64
25	24/12/2020	87.53	44.20	17.31	36.23
26	28/12/2020	73.26	30.28	19.27	33.22
27	31/12/2020	89.37	45.25	23.58	40.34
28	04/01/2021	75.52	40.27	23.50	38.65
29	07/01/2021	89.28	50.26	17.53	36.35
30	11/01/2021	69.34	34.25	26.17	42.65
31	14/01/2021	93.43	53.53	18.27	32.42
32	18/01/2021	76.51	41.19	21.65	26.22
33	21/01/2021	61.35	35.34	24.19	40.25
34	25/01/2021	82.38	45.54	19.24	25.57
35	28/01/2021	90.28	51.23	25.24	41.25
36	01/02/2021	83.64	44.66	21.25	33.43
37	04/02/2021	92.67	49.22	23.63	37.56
38	08/02/2021	88.35	41.23	33.43	34.22
39	11/02/2021	90.32	51.23	20.17	38.48
40	15/02/2021	86.21	46.54	13.25	35.64
41	18/02/2021	75.33	43.57	16.42	30.66
-	22/02/2021	93.48	38.47	11.48	21.24
42	25/02/2021	82.62	45.33	18.46	28.62
43	01/03/2021	84.36	43.49	18.41	35.89
45		90.35	48.34	20.18	28.22
46	04/03/2021	1.00000000			41.28
47	08/03/2021	86.51	44.23	16.33	
	11/03/2021	76.54	42.56	24.30	31.54
48	15/03/2021	82.61	45.35	22.19	43.29
49	18/03/2021	92.46	51.55	17.36	39.35
50	22/03/2021	71.53	35.45	25.19	36.27
51	25/03/2021	87.52	47.26	21.67	44.2
52	29/03/2021	75.38	30.7	15.6	40.21

H. T. Shah Lab Manager





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AMBIENT AIR QUALITY ANALYSIS REPORT OBSERVATIONS

						nple Analy			
C N			te Matter (µg/m³)		te Matter (µg/m³)		Dioxide µg/m³)		f Nitrogen µg/m³)
Sr.No.	Month	Max	Min	Max	Min	Max	Min	Max	Min
L.C. Ga	te No.2		inc.		en e		**	**************************************	
1	October-20	74.26	44.52	43.57	18.62	19.61	6.48	31.62	18.53
2	November-20	76.24	50.37	40.28	22.62	18.78	8.65	32.57	18.63
3	December-20	73.58	50.26	35.66	20.36	18.30	6.56	34.25	16.43
4	January-21	71.61	50.67	38.65	26.29	19.73	7.91	28.40	19.69
5	February-21	71.27	52.65	33.67	25.63	19.24	9.62	29.34	18.67
6	March-21	78.21	50.21	44.25	22.60	17.66	7.63	36.57	17.87
Startin	g Of Pile Appro	ach (Near	SS2 Buildi	ng)			•		*:
1	October-20	88.28	67.51	48.24	30.29	23.41	13.52	41.36	30.22
2	November-20	82.38	58.65	46.28	30.49	25.61	10.58	40.26	29.45
3	December-20	86.26	68.35	44.60	26.34	25.65	14.20	41.21	29.62
4	January-21	86.22	66.58	48.60	30.22	25.48	15.33	38.29	28.20
5	February-21	87.27	69.37	47.51	35.64	28.24	13.52	42.36	23.44
6	March-21	92.42	68.34	54.27	34.51	23.25	13.56	42.65	28.57
South '	West Corner O	f Back Up	Area					***	
1	October-20	80.22	52.65	39.45	21.50	19.50	8.25	34.38	19.64
2	November-20	72.83	45.61	42.62	20.62	19.57	6.28	32.41	16.84
3	December-20	80.47	50.31	38.50	18.67	17.56	7.63	35.35	16.52
4	January-21	78.56	44.96	41.53	18.67	19.36	9.29	33.63	21.55
5	February-21	76.34	56.36	38.38	26.51	16.27	6.51	31.53	15.69
6	March-21	80.21	53.55	40.52	24.57	17.57	7.53	35.54	16.55
North I	East Corner Of	Back Up A	rea		•				
1	October-20	93.22	60.28	54.24	26.58	25.28	13.78	38.64	25.34
2	November-20	89.22	59.32	52.66	31.54	24.84	11.55	41.67	27.62
3	December-20	91.25	72.51	50.22	30.28	25.38	11.19	41.57	22.64
4	January-21	93.43	61.35	53.53	34.25	26.17	17.53	42.65	25.57
5	February-21	93.48	75.33	51.23	38.47	33.43	11.48	38.48	21.24
6	March-21	92.46	71.53	51.55	30.70	25.19	15.60	44.20	28.22

H. T. Shah Lab Manager





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RESULTS OF NOISE LEVEL MONITORING

Sampling Date : As Per Table

Test Method : IS 9876/IS 9989

Sampling Location : As Per Table

Sampling By : Pollucon Laboratories Pvt. Ltd.

Protocol (purpose) : Environmental Monitoring

TABLE NO. 5 RESULTS OF DAY TIME NOISE LEVEL MONITORING [OCTOBER 2020 TO MARCH 2021]

			Noise I	evel Day T	ime dB(A)l	Leq*			
Sr.	Name of Location	LC Gat	te No.2		g Of Pile roach		est Corner p House	North East Corner of Back up Area	
No.	Month	Max	Min	Max	Min	Max	Min	Max	Min
1.	October-20	61.8	58.3	60.7	57.3	66.3	49.4	62.8	58.6
2.	November-20	72.0	63.5	69.8	64.6	70.7	52.2	62.8	57.8
3.	December-20	63.6	57.9	64.4	59.4	64.4	58.4	62.9	56.7
4.	January-21	68.6	59.8	64.4	60.3	62.4	57.6	62.9	57.8
5.	February-21	66.5	57.5	66.7	60.6	62.1	53.2	63.8	54.3
6.	March-21	62.8	54.8	64.7	58.5	64.0	58.9	61.9	55.7

TABLE NO. 6 RESULTS OF NIGHT TIME NOISE LEVEL MONITORING [OCTOBER 2020 TO MARCH 2021]

		Noise Level Night Time dB(A)Leq*								
Sr.	Name of Location	LC Gat	te No.2		of Pile oach	The state of the s	est Corner p House		st Corner up Area	
No.	Month	Max	Min	Max	Min	Max	Min	Max	Min	
1.	October-20	60.9	58.2	60.2	56.9	65.4	47.1	61.8	57.5	
2.	November-20	69.6	62.9	68.1	62.3	69.9	50.9	61.6	56.5	
3.	December-20	62.9	56.9	62.7	57.6	62.8	57.5	62.4	55.5	
4.	January-21	63.9	57.5	63.2	60.5	61.1	56.4	61.8	53.5	
5.	February-21	62.5	50.3	64.4	58.2	61.8	52.2	60.2	52.6	
6.	March-21	59.9	53.2	68.7	59.8	63.2	55.8	60.7	53.8	

AMBIENT AIR QUALITY STANDARDS FOR NOISE SPECIFIED BY CPCB

A C	C-1	Limits in dB(A) Leg#			
Area Code	Category of Area/Zone	Day time	Night time 70		
Α	Industrial area	75			
Notes:	1 a Co. (107) 14 a Alba (1707) - 56 a la -6	1-27			
 Day time sh 	all mean from 6.00 a.m. to 10.00 p.m.				
2. Night time :	shall mean from 10.00 p.m. to 06.00 a.m.				
	shall mean from 10.00 p.m. to 06.00 a.m. es the time weighted average of the level of so	und in decibels on scale A which i	s relatable to hum		

H. T. Shah Lab Manager SURAT-7. PV



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AMBIENT AIR QUALITY MONITORING & NOISE QUALITY MONITORING LOCATIONS

Sr. No	Name of Location	GPS Coordinate
1.	LC Gate No.2	N 22°58' 14.29'E 70°05 51.07'
2.	Starting Of Pile Approach	N 22°54' 27.47' E 70°06 15.63'
3.	South West Corner at Pump House	N 22°55' 22.98' E 70°06 7.37'
4.	North East Corner Of Back Up Area	N 22°55' 53.09 E 70°06 27.17'

FIGURE NO. 1 GOOGLE EARTH IMAGE OF AMBIENT AIR QUALITY MONITORING & NOISE QUALITY MONITORING LOCATION











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RESULTS OF SEA WATER MONITORING TABLE NO. 7 RESULTS OF SEA WATER [OCTOBER 2020 TO MARCH 2021]

Description of Sample Sea Water (Surface & Bottom) Quantity/No. of Samples 10 Lit/12 Pollucon Laboratories Pvt. Ltd. Sampling Procedure Grab Sampling By :

Packing/Sea Protocol (purpose) **Env. Monitoring** Sealed IS 3025 & APHA (22nd Edi.) 2008 Test Parameters Test Method As per table

Near Mouth of Creek (M1) Near Jetty (M2) Near Mouth of Creek (M1) SR. TEST October-20 November-20 December-20 UNIT **PARAMETERS** 16/10/2020 12/11/2020 14/12/2020 воттом SURFACE BOTTOM SURFACE SURFACE BOTTOM 8.19 pН 8.23 8.17 8.27 8.25 8.21 Temperature 30.6 30.4 30.3 30 30.2 30 Total Suspended Solids mq/L 137 158 112 128 106 115 4 BOD (3 Days@27°C) mg/L 3.1 Not Detected 2.8 Not Detected 3.1 Not Detected Dissolved Oxygen 5.9 5.8 5.9 mq/L 6 Salinity ppt 34.2 34.6 34.6 34.9 35 35.3 Oil & Grease mg/L Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected 8 Nitrate as NO3 umol/L 3.48 3.32 3.27 3.14 4.2 3.76 9 Nitrite as NO₂ µmol/L 0.98 0.74 0.86 0.53 0.64 0.53 Ammonical Nitrogen 10 umol/L 2.76 2.56 2.1 1.98 1.76 1.64 as NH₃ Phosphates as PO₄ 2.36 2.14 2.13 2.18 1.96 11 umol/L 5.65 5.93 12 Total Nitrogen umol/L 7.22 6.62 6.23 6.6 Petroleum Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected 13 µg/L Hydrocarbon 14 Total Dissolved Solids mg/L 35934 36128 36098 36542 36324 36784 15 COD ma/L 23 21 20 Not Detected 23 Not Detected A Flora and Fauna mgC/L/ 16.1 Primary Productivity 29.7 27.9 32.4 Phytoplankton 17.1 Chlorophyll mg/m³ 3.1 2.77 2.99 2.72 3.15 2.83 2.29 2.47 2.32 2.31 2.22 17.2 Phaeophytin mg/m³ 2.23 No.x 17.3 Cell Count 196 110 182 118 190 130 103/L Name of Group Rhizosolenia sp. Nitzschia sp. Rhizosolenia sp Nitzschia sp. Rhizosolenia sp. Number Nitzschia sp. Biddulphia sp Navicula sp Cheatocerous sp Synedra sp. Cheatocerous sp Navicula sp. 17.4 and name of group Pleurosigma sp. Pleurosigma sp Cheatocerous sp Skeletonema sp. Navicula sp. Skeletonema sp. Biddulphia sp species of each Coscinodiscus sp. Biddulphia sp Skeletonema sp. Thalassinema sp group C Zooplanktons Abundance 18.1 32 30 33 100 m (Population) Polychaetes Foraminiferans Name of Group Number Gastropods Ostracods Fish egg 18.2 and name of group Polychaetes Gastropods Polychaetes species of each group Bivalues Fish egg Gastropods ml/ 18.3 Total Biomass 3.6 3.1 3.25 100 m D Microbiological Parameters 19.1 Total Bacterial Count CFU/ml 2190 2240 2150 Total Coliform 19.2 /ml Absent Absent Absent 19.3 E.coli /ml Absent Absent Absent Enterococcus /ml Absent Absent Absent species 19.5 Salmonella species /ml Absent Absent Absent 19.6 Shigella species /ml Absent Absent Absent Absent

Vibrio species Absent Note: BDL*: Below Detection Limit, Minimum Detection Limit, BOD: 1.0 mg/L, OII & Grease: 2.0 mg/L, Petroleum Hydrocarbon: 1.0 µg/L

Absent

/ml

-0-D H. T. Shah Lab Manager





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TABLE NO. 8 RESULTS OF SEA WATER [OCTOBER 2020 TO MARCH 2021]

vana l	CONTRACTOR COLUMN		Near Jet		Near Mouth			tty (M2)
SR.	TEST	UNIT	Janua			ary-21		:h-21
NO.	PARAMETERS	OWI	22/01/2021		22/02	/2021	25/03/2021	
			SURFACE	воттом	SURFACE	воттом	SURFACE	воттом
1	рН	-	8.19	8.16	8.27	8.24	8.29	8.27
2	Temperature	°C	30	29.8	30.1	30.3	30.4	30.1
3	Total Suspended Solids	mg/L	115	106	129	114	137	124
4	BOD (3 Days @27°C)	mg/L	2.8	Not Detected	3.2	Not Detected	3.6	Not Detected
5	Dissolved Oxygen	mg/L	6	5.7	5.9	5.8	5.8	5.6
6	Salinity	ppt	34.9	35.3	35.5	35.9	35.7	36.1
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO ₃	µmol/L	3.58	3.4	3.93	3.58	3.56	3.14
9	Nitrite as NO ₂	µmol/L	0.73	0.65	0.87	0.69	0.72	0.61
10	Ammonical Nitrogen as NH ₃	µmol/L	2.14	1.98	2.58	2.34	2.13	1.87
11	Phosphates as PO ₄	µmol/L	2.64	2.43	3.14	2.92	2.69	2.53
12	Total Nitrogen	µmol/L	6.45	6.03	7.38	6.61	6.41	5.62
	Petroleum	μιτισιγι	0.43		7.30	0.01		
13	Hydrocarbon	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	36610	36803	36594	36914	37316	37846
15	COD	mg/L	21	Not Detected	27	19	25	17
Α	Flora and Fauna							
16.1	Primary Productivity	mgC/L/ day	21	21.6		43.2		9.6
В	Phytoplankton							
17.1	Chlorophyll	mg/m³	2.94	2.88	3.31	3.09	2.83	2.67
17.2	Phaeophytin	mg/m³	2.71	2.5	2.33	2.99	1.84	1.14
17.3	Cell Count	No. x 103/L	204	106	224	150	170	96
17.4	Name of Group Number and name of group species of each group	1	Biddulphia sp. Rhizosolenia sp. Cheatocerous sp. Skeletonema sp. Pleurosigma sp.	Coscinodiscus sp. Synedra sp. Nitzschia sp. Navicula sp.	Coscinodiscus sp. Skeletonema sp. Rhizosolenia sp. Oscillatoria sp. Peridium sp.	Nitzschia sp. Navicula sp. Biddulphia sp. Dytium sp.	Coscinodiscus sp. Skeletonema sp. Thalasiosira sp. Cheatocerous sp.	Nitzschia sp. Navicula sp. Rhizosolenia sp. Synedra sp.
С	Zooplanktons							
18.1	Abundance (Population)	noX10 ³ /100m ³	3	9	3	2	2	7
18.2	Name of Group Number and name of group species of each group	-	Mys Ostra Polycl Foramin	icods hates	Copepods Decapods Luciter Polychaetes		Polychaetes Bivalves Amphipods	
18.3	Total Biomass	mL/10 0 m ³	3.	4	3.	45	2.	99
D	Microbiological Para	meters	(K)					
19.1	Total Bacterial Count	CFU/mL	22	30	21	20	29	140
19.2	Total Coliform	/mL	Absent		Abs	sent	Pres	sent
19.3	E.coli	/mL	Absent		Abs	sent	Abs	sent
19.4	Enterococcus species	/mL	Abs	Absent		sent	Pre	sent
19.5	Salmonella species	/mL	Abs	ent	Abs	sent	Abs	sent
19.6	Shigella species	/mL	Abs			sent		sent
19.7	Vibrio species	/mL	Abs	ent	Absent		Abs	sent

Note: BDL*: Below Detection Limit, Minimum Detection Limit, BOD: 1.0 mg/L, Oil & Grease: 2.0 mg/L, Petroleum Hydrocarbon: 1.0 µg/L

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SEA WATER REPORT OBSERVATION

SeaWater Sample Analysis		Month : October-20 to March-21					
Tost Parameter		Sur	face	Bot	tom		
Test Parameter	Unit	Max	Min	Max	Min		
рН		8.29	8.19	8.27	8.16		
Total Dissolved Solids	mg/L	37316	35934	37846	36128		
Total Suspended Solids	mg/L	137	106	158	106		
BOD (3 Days @ 27 °C)	mg/L	3.6	2.8	Not Detected	Not Detected		
Dissolved Oxygen	mg/L	6	5.8	5.8	5.6		
Salinity	ppt	35.7	34.2	36.1	34.6		
COD	mg/L	27	20	21	17		

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RESULTS OF SEA SEDIMENT MONITORING

TABLE NO. 9 RESULTS OF SEA SEDIMENT [OCTOBER 2020 TO MARCH 2021]

Description of Sample

: Sea Sediment

Quantity/No. of Samples :

10 Kg/06

Sampling By

: Pollucon Laboratories Pvt. Ltd.

Sampling Procedure

Grab

Packing/Seal

.

Protocol (purpose)

Env. Monitoring

Test Method

: Sealed

IS/ASTM/CPCB Guidelines

Test Parameters

: As per table

SR.	TEST	UNIT	Near Mouth of Creek (M1)	Near Jetty (M2)	Near Mouth of Creek (M1)	Near Jetty (M2)	Near Mouth of Creek (M1)	Near Jetty (M2)
NO.	PARAMETERS	ONII	October-20	November-20	December-20	January-21	February-21	March-21
			16/10/2020	12/11/2020	14/12/2020	22/01/2021	22/02/2021	25/03/2021
1	Organic Matter	%	0.48	0.53	0.5	0.42	0.58	0.39
2	Phosphorus as P	µg/g	634	704	734	693	734	634
3	Texture		Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Heavy Metals							
5.1	Aluminum as Al	%	4.76	4.5	4.68	4.48	5.24	4.93
5.2	Total Chromium as Cr+3	µg/g	168	201	234	170	126	138
5.3	Manganese as Mn	µg/g	714	784	683	705	735	614
5.4	Iron as Fe	%	4.36	4.2	4.5	4.3	4.66	4.52
5.5	Nickel as Ni	μg/g	39	51	42	38	57	31
5.6	Copper as Cu	µg/g	25	43	39	40	63	47
5.7	Zinc as Zn	µg/g	138	119	103	116	128	108
5.8	Lead as Pb	µg/g	2.4	2.86	1.84	3	2.19	1.75
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)		Polychaetes Crustaceans Bivalves	Polychaetes Branchyurans Amphipods	Polychaetes Crustaceans	Polychaetes Amphipods Crustaceans	Oliochaeta Gastropods Bivalues	Amphipods Gastropods Polychaetes
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)		Foraminiferans	-	Nematod	Foraminiferans	Gastropods Nematods	Nematods
6.3	Population	no/m ²	324	381	440	528	557	437

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Mercury as Hg: 0.00025 mg/L, Petroleum Hydrocarbon: 5 µg/g

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SEA SEDIMENT REPORT OBSERVATION

Sea Sediment Sample	Analysis	Month : October	r-20 to March-21	
Total Bosonia about		Sediment		
Test Parameter	Unit -	Max	Min	
Organic Matter	%	0.58	0.39	
Phosphorus as P	μg/g	734	634	
Aluminum as Al	%	5.24	4.48	
Total Chromium as Cr ⁺³	μg/g	234	126	
Manganese as Mn	µg/g	784	614	
Iron as Fe	%	4.66	4.2	
Nickel as Ni	µg/g	57	31	
Copper as Cu	µg/g	63	25	
Zinc as Zn	µg/g	138	103	
Lead as Pb	µg/g	3	1.75	
Mercury as Hg	µg/g	Not Detected	Not Detected	

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Cleaner Production / Waste Minimization Pacificator

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SEA WATER & SEA SEDIMENT LOCATIONS

Sr. No	Name of Location	GPS Coordinate		
1.	NEAR MOUTH OF CREEK (M1)	N 22°54'10.58" E 70° 8'34.86"		
2.	NEAR JETTY (M2)	N 22°'53.60" E 70° 6.47"		

FIGURE NO. 2 GOOGLE EARTH IMAGE OF SEA WATER AND SEDIMENT LOCATION









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RESULTS OF DRINKING WATER ANALYSIS

STANDARD METHODS & PERMISSIBLE LIMIT FOR DRINKING WATER

SR. NO.	PARAMETERS	UNIT	DESIRABLE LIMIT AS PER IS:10500:2012	TEST METHOD
	Chemical Parameters			
1	Odour		Agreeable	IS3025(P-5)83Re.02
2	Colour	Hazen	Max 5	IS3025(P-4)83Re.02
3	Taste	-22	Agreeable	IS3025(P-8)84Re.02
4	pH Value		6.5 to 8.5	IS3025(P-11)83Re.02
5	Turbidity	NTU	Max 1	APHA 2130-B
6	Total Dissolved Solids	mg/L	Max 500	IS3025(P16)84Re.02
7	Total Hardness as CaCO₃	mg/L	Max 200	IS3025(P-21) 84EDTARe.02
8	Alkalinity	mg/L	Max 200	IS3025(P23)86Re.03
9	Residual Free Chlorine	mg/L	Min 0.2	APHA(22nd Edi)4500 CI
10	Chloride as Cl	mg/L	Max 250	IS3025(P-32) 88Re.99Argentometric method
11	Calcium as Ca	mg/L	Max 75	IS3025(P40)91Re.03EDTA
12	Magnesium as Mg	mg/L	Max 30	IS3025(P46)94Re.99EDTA
13	Mineral Oil	mg/L	Max 0.5	APHA(22 rd Edi)5520D
14	Phenolic compounds as C ₆ H ₅ OH	mg/L	Max 0.001	IS3025(P43)92Re.03
15	Hexavalent Chromium as Cr ⁺⁶	mg/L	Max 0.05	APHA(22 nd Edi)3500CrB
16	Cadmium as Cd	mg/L	Max 0.003	APHA(22 nd Edi)3500Cd
17	Copper as Cu	mg/L	Max 0.05	IS3025(P42)92Re.03
18	Zinc as Zn	mg/L	Max 5	APHA(22 nd Edi)3500 Zn
19	Iron as Fe	mg/L	Max 0.3	APHA(22 nd Edi)3500Fe B
20	Lead as Pb	mg/L	Max 0.01	APHA(22 nd Edi)3500PbD
21	Mercury as Hg	mg/L	Max 0.001	IS3025(P48)94
22	Selenium as Se	mg/L	Max 0.01	APHA(22 nd Edi)3500 Se
23	Aluminum as Al	mg/L	Max 0.03	APHA(22ndEdi)3500 AI
24	Manganese as Mn	mg/L	Max 0.1	APHA(22 nd Edi)3500 Mn B
25	Arsenic as As	mg/L	Max 0.01	IS3025(P-37)88
26	Sulphate as SO ₄	mg/L	Max 200	APHA(22 nd Edi)4500 SO ₄ E
27	Cyanide as CN	mg/L	Max 0.05	APHA(22 nd Edi)4500CN E
28	Boron as B	mg/L	Max 0.5	APHA(22 nd Edi)4500 B
29	Fluoride as F	mg/L	Max 1.0	APHA(22 nd Edi) 4500 F D SPANDS
30	Nitrate Nitrogen as NO₃	mg/L	Max 45	IS3025(P34)88
31	Anionic Detergents as MBAS	mg/L	Max 0.2	14542/Methylene Blue extraction method
32	Pesticides	mg/L	Absent	GC MS
33	Coliform	/100 ml	Absent	APHA (22 nd Edi. Method) 9221-D
34	E-Coli	/100 ml	Absent	IS: 1622:1981 Edi. 2.4 (2003-05)

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TABLE NO.10 RESULTS OF DRINKING WATER [OCTOBER 2020 TO MARCH 2021]

TABLE NO.10.1 RESULTS OF DRINKING WATER [ESSENTIAL PARAMETER IN OCTOBER 2020 TO MARCH 2021]

		1	November-20	January-21	
SR. NO.	TEST PARAMETERS	UNIT	POB Building	Narmada Pump House	
			13/11/2020	25/01/2021	
1	Odour	(35)	Agreeable	Agreeable	
2	Colour	Hazen	2	2	
3	Taste		Agreeable	Agreeable	
4	рН	***	7.28	8.06	
5	Turbidity	NTU	Not Detected	Not Detected	
6	Total Dissolved Solids	mg/L	370	396	
7	Total Hardness as CaCO ₃	mg/L	132	124	
8	Residual Free Chlorine	mg/L	Not Detected	Not Detected	
9	Chloride as Cl	mg/L	105	119	
10	Fluoride as F	mg/L	0.17	0.35	
11	Iron as Fe	mg/L	0.38	0.25	
12	Coliform	/100 ml	Absent	Absent	
13	E-Coli	/100 ml	Absent	Absent	

BDL*: Below Detection Limit

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TABLE NO.10.2 RESULTS OF DRINKING WATER [FULL PARAMETER IN OCTOBER 2020 TO MARCH 2021]

			March-2021
SR. NO.	PARAMETERS	UNIT	Drinking Water From POB Building
8			26/03/2021
Chemica	Parameters		
1	Odour	92	Agreeable
2	Colour	Hazen	3
3	Taste		Agreeable
4	pH Value	**	7.48
5	Turbidity	NTU	0.13
6	Total Dissolved Solids	mg/L	476
7	Total Hardness as CaCO ₃	mg/L	169
8	Alkalinity	mg/L	110
9	Residual Free Chlorine	mg/L	Not Detected
10	Chloride as Cl	mg/L	126
11	Calcium as Ca	mg/L	41.6
12	Magnesium as Mg	mg/L	15.6
13	Mineral Oil	mg/L	Not Detected
14	Phenolic compounds as C ₆ H ₅ OH	mg/L	Not Detected
15	Chromium as Cr ⁺⁶	mg/L	Not Detected
16	Cadmium as Cd	mg/L	Not Detected
17	Copper as Cu	mg/L	Not Detected
18	Zinc as Zn	mg/L	Not Detected
19	Iron as Fe	mg/L	0.38
20	Lead as Pb	mg/L	Not Detected
21	Mercury as Hg	mg/L	Not Detected
22	Selenium as Se	mg/L	Not Detected
23	Aluminum as Al	mg/L	Not Detected
24	Manganese as Mn	mg/L	Not Detected
25	Arsenic as As	mg/L	Not Detected
26	Sulphate as SO ₄	mg/L	93
27	Cyanide as CN	mg/L	Not Detected
28	Boron as B	mg/L	Not Detected
29	Fluoride as F	mg/L	0.075
30	Nitrate Nitrogen as NO ₃	mg/L	0.23
31	Anionic Detergents as MBAS	mg/L	Not Detected
32	Pesticides	mg/L	Not Detected
Microbio	logical Parameters		
33	Coliform	/100 ml	Absent
34	E-Coli	/100 ml	Absent

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TABLE NO.11 RESULTS OF SEWAGE WATER [OCTOBER 2020 TO MARCH 2021]

SR. NO.	PARAMETERS	UNIT	STP OUTLET PERMISSIBLE LIMIT#	TEST METHOD
1	pH		Not Specified	IS: 3025 (Part - 11) (Electrometric Method)
2	Total Suspended Solids	mg/L	30	IS3025(P17)
3	BOD (3 Days @ 27 °C)	mg/L	20	IS 3025 (Part – 44)
4	Fecal Coliform	MPN/100 ml	Not Specified	APHA(22 nd Edi)9221 C & E

RESULTS OF SEWAGE WATER ANALYSIS

	DATE OF SAMPLING		23/10	0/2020
SR. NO.	PARAMETERS	UNIT	STP Inlet	STP Outlet
1	pH		7.39	7.76
2	Total Suspended Solids	mg/L	35	16
3	BOD (3 Days @ 27 °C)	mg/L	164	14
4	Fecal Coliform	MPN/100 ml	>1600	430

	DATE OF SAMPLING		13/11	1/2020
SR. NO.	PARAMETERS	UNIT	STP Inlet	STP Outlet
1	pH	155	7.49	7.57
2	Total Suspended Solids	mg/L	46	13
3	BOD (3 Days @ 27 °C)	mg/L	153	16
4	Fecal Coliform	MPN/100 ml	>1600	540

DATE OF SAMPLING			31/12	2/2020
SR. NO.	PARAMETERS	UNIT	STP Inlet	STP Outlet
1	рН		7.02	7.15
2	Total Suspended Solids	mg/L	74	26
3	BOD (3 Days @ 27 °C)	mg/L	110	18
4	Fecal Coliform	MPN/100 ml	>1600	430

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	DATE OF SAMPLING	DATE OF SAMPLING		1/2021
SR. NO.	PARAMETERS	UNIT	STP Inlet	STP Outlet
1	pH		6.85	6.83
2	Total Suspended Solids	mg/L	156	20
3	BOD (3 Days @ 27 °C)	mg/L	140	15
4	Fecal Coliform	MPN/100 ml	>1600	350

	DATE OF SAMPLING		18/0	2/2021
SR. NO.	PARAMETERS	UNIT	STP Inlet	STP Outlet
1	рН		6.93	6.99
2	Total Suspended Solids	mg/L	138	17
3	BOD (3 Days @ 27 °C)	mg/L	129	13
4	Fecal Coliform	MPN/100 ml	>1600	430

	DATE OF SAMPLING		26/03	3/2021
SR. NO.	PARAMETERS	UNIT	STP Inlet	STP Outlet
1	pH		6.99	7.1
2	Total Suspended Solids	mg/L	123	15
3	BOD (3 Days @ 27 °C)	mg/L	140	17
4	Fecal Coliform	MPN/100 ml	>1600	540

SR.	DARAMETERS		STP (Outlet	B
NO.	PARAMETERS	UNIT	Max.	Min.	Permissible Limit**
1	pH		7.76	6.83	6.5-9.0
2	Total Suspended Solids	mg/L	26	13	30
3	BOD (3 Days @ 27 °C)	mg/L	18	13	20
4	Fecal Coliform	MPN/100 ml	540	350	<1000

^{**:} Details provided by customer.

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TABLE NO.12 RESULTS OF STACK MONITORING

PERMISSIBLE LIMIT FOR STACK MONITORING

SR. NO.	TEST PARAMETER	UNIT	GPCB LIMIT**	TEST/SAMPLING METHOD
1	Particulate Matter	mg/Nm³	150	IS:11255 (Part-1)
2	Sulfur Dioxide as SO ₂	ppm	100	IS:11255 (Part-2)
3	Oxides of Nitrogen as NO _X	ppm	50	IS: 11255 (Part-7)

^{**}Details provided by customer.

RESULTS OF STACK MONITORING

	Date of Monitoring		22/01/2021			
	Sampling Location		SS-1 DG Set -1 (125 KVA)	SS-2 DG Set -2 (125 KVA)	SS-3 DG Set -3 (125 KVA)	
SR. NO.	TEST PARAMETER	UNIT	January-21			
1	Particulate Matter	mg/Nm ³	21.75	16.41	19.52	
2	Sulfur Dioxide as SO ₂	ppm	7.52	5.62	4.52	
3	Oxides of Nitrogen as NO _x	ppm	35.65	30.75	32.42	
4	Noise Level Monitoring					
4.1	Near DG Set	dB(A)	71.2	73.5	70.8	

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TABLE NO. 13 RESULTS OF DUMP POND DISCHARGE

SR. NO.	PARAMETERS	UNIT	TEST METHOD	
1	рH	(== ()	IS3025(P11)83Re.02	
2	Total Dissolved Solids	mg/L	IS3025(P16)84Re.02	
3	Total Suspended Solids	mg/L	IS3025(P17)84Re.02	
4	Turbidity	NTU	APHA 2130-B	
5	BOD (3 Days @ 27 °C)	mg/L	IS 3025 (P44)1993 Re.03Edition2.1	
6	Dissolved Oxygen	mg/L	IS3025(P38)89Re.99	
7	COD	mg/L	APHA(22 nd Edi) 5520-D Open Reflux	
8	Salinity	ppt	APHA 2550 B	
9	Oil & Grease	mg/L	APHA(22 nd Edi)5520D	
10	Total Hardness as CaCO3	mg/L	IS3025(P-21) 84EDTARe.02	
11	Fluoride as F	mg/L	APHA(22 nd Edi) 4500 F D SPANDS	
12	Chloride as Cl	mg/L	IS3025(P-32) 88Re.99Argentometric method	
13	Zinc as Zn	mg/L	AAS- APHA (22 nd Edition) 3111 B	
14	Cadmium as Cd	mg/L	AAS- APHA (22 nd Edition) 3111 B	
15	Lead as Pb	mg/L	AAS- APHA (22 nd Edition) 3111 B	
16	Mercury as Hg	mg/L	AAS-APHA (22 nd Edition) 3112 B	

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RESULTS OF DUMP POND DISCHARGE

	Location Name	Dump Pond Near TT4 29/01/2021		
	Date			
SR. NO.	TEST PARAMETER	UNIT	January-21	
1	рН		8.24	
2	Total Dissolved Solids	mg/L	482	
3	Total Suspended Solids	mg/L	38	
4	Turbidity	NTU	8.1	
5	BOD (3 Days @ 27 oC)	mg/L	24	
6	Dissolved Oxygen	mg/L	6.1	
7	COD	mg/L	164	
8	Salinity	ppt	0.24	
9	Oil & Grease	mg/L	Not Detected	
10	Total Hardness as CaCO3	mg/L	164	
11	Fluoride as F	mg/L	0.54	
12	Chloride as Cl	mg/L	118	
13	Zinc as Zn	mg/L	0.082	
14	Cadmium as Cd	mg/L	Not Detected	
15	Lead as Pb	mg/L	0.012	
16	Mercury as Hg	mg/L	Not Detected	

BDL*: Below Detection Limit, Minimum Detection Limit, Cadmium as Cd: 0.001 mg/L, Mercury as Hg: 0.00025mg/L, Oil & Grease: 2.0 mg/L

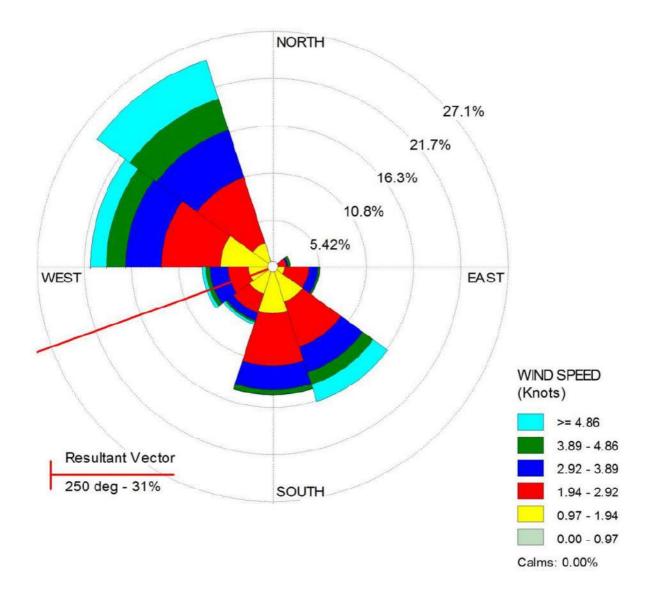
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FIGURE NO.3 WIND ROSE DIAGRAM [OCTOBER 2020 TO MARCH 2021]



H. T. Shah Lab Manager



Period:

From: Oct'20 To: Mar'21

Annexure - 5

(GREEN ZONE DETAILS OF TUNA PORT (AKBTPL) UP TO Mar'2021.)



Period: From : Oct'20

To : Mar'21

CURRENT GREEN ZONE DETAILS OF TUNA PORT (AKBTPL) UP TO Mar'2021.						
Sr. No.	Location		Tree (No.)	Shrubs (SQM)	Green Carpet (SQM)	Palm (No.)
1	Staff Canteen, POB & SS1 Building	2.25	4491	1975	8569	307
2	Green Belt area & Pump House	6.34	15779	250	0	75
3	Approach Road Zero Point to Main Gate	0.40	0	0	0	1150
4	SS2 Building & Jetty Road Area.	3.45	8002	1230	0	0
5	Internal Road & Railway Building	3.34	13180	150	60	250
	Total	15.78	41452	3605	8629	1782







Near Adani canteen

Around POB office

Near SS-01 Building







Approach Road- Zero Point to Main Gate

Near SS-02 Building

Near Railway Building

Period:

From: Oct'20 To: Mar'21

Annexure - 6

(Details of CSR activities carried out by Adani Foundation.)



Period:

From: Oct'20 To: Mar'21

CSR work carried out by Adani foundation at AKBTPL from Apr'20 To Mar'21

Sr.No.	Village	CSR activities	Beneficiaries	Expenses in lacs
1		Health Projects		
	Tuna,Vandi & Rampar	Rural Clinice	1253	0.19
	Tuna,Vandi & Rampar	Senior Citizen	34	0.21
	Tuna,Vandi & Rampar	Medical Support	5	1.03
2		Education Projects	0	0
3		SLD(Sustainable Livelihood) Projects.		
e e	Tuna	Fodder Support	210	8.72
	Rampar	Fodder Support	129	4.69
	Vandi	Water Supply	2400	8.7
	Vira Bandar	Water Supply	400	3.09
	Dhavarvaro Bandar	Water Supply	250	2.26
	Tuna,Vandi &Rampar	Covid-19 Ration Cites Support.	1100	5,5
	Rampar,Tuna & Vandi	Tree plantation	850	0.42
4		Rural Infra Structure Development		
	Tuna	Financial support for Cosn. Of U/G and O/H Watet Tank at Tuna (wasmo yojana)	9500	2.5
	Rampar	Development of Garden at Primary School Rampar	340	1.46
	Vandi	Drainage and water pipes in the Village due to heavy rains	2400	0.88
	Tuna & Vandi	Tuna Vandi Drainage Support	15000	45.4
		Total	33871	85.05



Period:

From: Oct'20 To: Mar'21

CSR Work Adani foundation at AKBTPL from Oct'-2020 To Mar'2021

Rampar

Rampar Primary School





Lon & Fountation work in the garden

Lon & Fountation work in the garden

CSR Work Adani foundation at AKBTPL from Oct'-2020 To Mar'2021



Potable water Distribution at Vira Bandar Fishermen Vasahat.



Potable water Distribution at Dhavarvaro Bandar Fishermen Vasahat.



Period:

From: Oct'20 To: Mar'21

CSR Work Adani foundation at AKBTPL from Oct'-2020 To Mar'2021

The Vandi Village was Flooded due to heavy rains

