

AHPL/MoEF&CC/2023-24/09

To
Deputy Director/Scientist C
Integrated Regional Office (IRO) -Gandhinagar
Ministry of Environment Forest & Climate Change
(Govt. of India)

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

Ref.: 1). Environmental and CRZ Clearance issued by MoEF & CC, New Delhi vide letter No.: 11-150/2010-IA.III dated 03rd May, 2013.

2). CRZ Recommendations issued by Forests & Environment Department, Govt. of Gujarat to MoEF & CC, New Delhi vide letter No.: ENV-10-2012-30-E dated 11th May, 2012.

Date: 30.11.2023

Sub.: Six Monthly Compliance Report of conditions stipulated in Environment and CRZ Clearance for the development of Multi Cargo Port with Supporting Utilities and Infrastructure Facilities at Hazira, Surat, Gujarat for the period: April 2023 to September 2023.

Dear Sir,

Please find enclosed herewith point wise compliance report of conditions stipulated in the above referred letters regarding Environment Clearance and Coastal Regulation Zone Clearance of AHPL for the compliance period of **April 2023 to September 2023.**

For, M/s Adani Hazira Port Limited,

(Niraj Bansal) Authorized Signatory

Co to P

- 1. The Director (Monitoring IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110 003.
- 2. The Director, Forests & Environment Department, Block 14, 8th Floor, Sachivalaya, Gandhinagar, Gujarat 382 010.
- The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodara, Parivesh Bhawan, Opp. VMC Ward Office No.:10, Subhanpura, Vadodra-390 023.
- 4. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector 10A, Gandhinagar-382 010 (Gujarat)
- 5. The Regional Officer, Gujarat Pollution Control Board, Belgium Square, Ring Road, Surat-395003, (Gujarat).





Six Monthly EC Compliance Report April 2023 to September 2023

ENVIRONMENTAL CLEARENCE-REFERENCE	PROJECT DETAILS	COMPLIANCE PERIOD
ENVIRONMENT AND CRZ CLEARANCE ISSUED BY MOEF & CC, NEW DELHI VIDE LETTER NO.: 11-150/2010-IA.III, DATED 03 RD MAY 2013	THE DEVELOPMENT OF MULTI CARGO PORT WITH SUPPORTING UTILITIES AND INFRASTRUCTURE FACILITIES AT HAZIRA, SURAT, GUJARAT	APRIL -2023 to SEPTEMBER -2023

SUBMITTED BY **M/S ADANI HAZIRA PORT LTD.** HAZIRA, TAL-CHORYASI, DIST-SURAT GUJARAT



LIST OF APPENDIXES

APPENDIX	DETAILS	
1.	Compliance to the Conditions Stipulated in CRZ Recommendations Issued By Forests &	
	Environment Department, Government Of Gujarat To MOEF & CC, New Delhi Vide Letter No.: ENV-	
	10-2012-30-E, Dated 11 th May, 2012.	

LIST OF ANNEXURES

ANNEXURE	DETAILS
NO.	
1	Action Plan And Compliance Status On The Issues Raised During The Public Hearing.
2.	Details Of The CSR Activities Along With Budgetary Provisions And Expenditures For the Compliance Period April 2023 to September 2023
3	Compliance Status of Environmental Management Plan As Per Integrated EIA Report - September, 2012.
4.	Environmental Monitoring / Analysis Results For the Period of April 23 - September 23
5	ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and ISO 50001:2018 Certificates
6	Photographs of Air Pollution Control Measures and Green Belt area
7	Organogram Of AHPL - Environment Management Cell.
8	Environmental Budget And Expenditure of Compliance Period
9	Environment Statement FY 2022-23



A. Six Monthly Compliance Report for Environmental and CRZ Clearance issued by MoEF & CC, New Delhi vide letter No.: 11-150/2010-IA.III dated 03rd May, 2013 for the development of Multi Cargo Port with supporting utilities and infrastructure facilities at Hazira, Surat, Gujarat by M/s. Adani Hazira Port Ltd (Earlier Known as Adani Hazira Port Pvt Ltd).: -

By September 30, 2023, a total of 228 hectares of land has been reclaimed for port operations, including the construction of berths and development of Infrastructure for cargo storage areas. Six berths have been built, and a total of 25.28 million metric tons per annum (MMTPA) of cargo, including containers, dry bulk, and liquid, were handled during the 2022-2023 fiscal year.

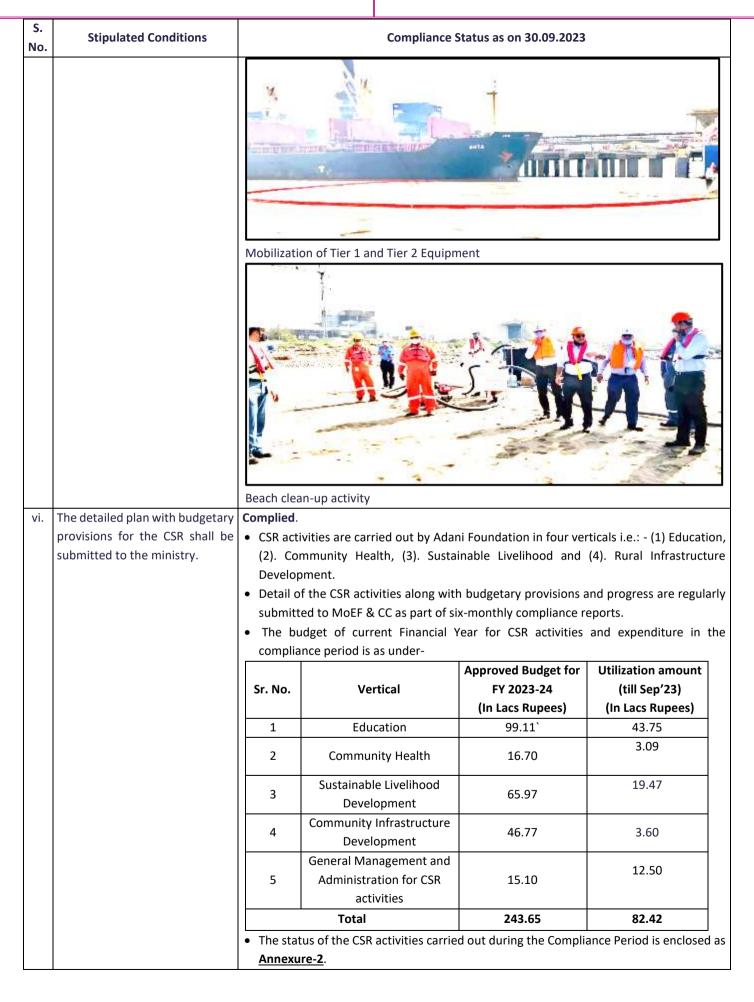
S. No.	Stipulated Conditions	Compliance Status as on 30.09.2023		
6.	Specific Conditions			
i.	"Consent for Establishment"	Complied,		
	shall be obtained from State	AHPL obtained Consent to Establish (NOC) from Gujarat Pollution Control Board on		
	Pollution Control Board under	16.05.2012 an	d the same was s	submitted to the Ministry on 05.10.2012 prior to obtaining
	Air & Water Act and a copy shall	the Environm	ent and CRZ cle	earances. Subsequently there were amendments in the
	be submitted to the Ministry	Consent to Est	ablish which wer	e also submitted to the MoEF&CC before start of respective
	before start of any construction	construction a	s per the details	given below: -
	work at site.	Consen	t Issued On	Submitted To MoEF&CC & other concern authorities
		No.		on
		CTE_	05.10.2012	Along with Six Monthly Compliance Report dated
		49766 CTE-	26.09.2014	19.11.2014 & 19.05.2017. Along with Six Monthly Compliance Report dated
		64900	20.09.2014	12.05.2015 & 19.05.2017.
		CTE-	13.01.2016	Along with Six Monthly Compliance Report dated
		74330		23.05.2016 & 19.05.2017.
		CTE-	16.04.2016	Along with the Six Monthly Compliance Report dated
		77767		21.11.2016 & 19.05.2017.
		CTE-	20.05.2019	Along with the Six Monthly Compliance Report dated
		101590		27.11.2019
		CTE-	04.12.2021	Along with the Six Monthly Compliance Report October
		115984		2021-March 2022 period. Email dated 31.05.2022
		ine port is in	operation with vo	alid CC&A (Consent to Operate).
ii.	The action plan on the issues	Complied		
	raised during public hearing shall	Public hearing	(PH) was condu	ucted on 14.08.2012. All the issues have been addressed
	be submitted to the Pollution	adequately a	nd to the sat	isfaction of the stakeholders. The action taken for
	Control Board. The action plan	implementation	on of the issues	are being submitted to the Ministry as well as $\mbox{\sc Gujarat}$
	shall be implemented without	Pollution Cont	rol Board along v	with the Six-Monthly EC Compliance report.
	fail. Report on compliance shall	The key points	raised during Ph	l were: -
	be submitted to the Regional	1) Preference	to be given to	the local people for employment and transport & other
	Office, MOEF along with the six-	contracts.		
	monthly reports.	M/s. AHPL	is giving prefere	ence to the locals for contracts, such as M/s. Hazira Vikas
				ling transport facilities to employees. M/s. AHPL also giving
		•		candidates for employment as per suitable requirements.
			-	total 179 out of 207 on roll employees are from Gujarat.
		,		it their displacement due to port development.
		M/s. AHPL has developed the port in uninhabited land area by reclamation and there		
		is no acquisition of private property.		
		The details action status of all other issues raised during the public hearing is enclosed as		
		Annexure-1		



Stipulated Conditions	Compliance Status as on 30.09.2023	
All the recommendations of SCZMA shall be complied with.	Being Complied All the recommendations of the Gujarat Coastal Zone Management Authority (GCZMA) are being complied. Compliance status of the conditions stipulated in GCZMA recommendations vide letter dated 11/05/2012 bearing No.: ENV-10-2012-30-E is enclosed as Appendix-1.	
changes shall be conducted and mitigation carried out if necessary. The details shall be	Shorelines change study was conducted through NIO, Vizag during the period from November 2014 to December 2015. Report of the shoreline change study was submitted along with compliance report dated 21.11.2016. Study confirms that there is no significant change in the shoreline near by the port except for the approved layout of the AHPL. The report did not warrant any mitigation measures for protection of shoreline. A study on Shoreline Change Assessment in 10 km area around the port has been carried out by Gujarat Institute of Desert Ecology. Study also confirms that there is no significant change in the shoreline near by the port except for the approved layout of the AHPL. The report did not warrant any mitigation measures for protection of shoreline. The report has been submitted with Six-monthly EC compliance report submitted on 30.11.2022 through	
collected and disposed as per Rules. Proper Oil Contingency	There was no Oil Spill during the compliance period. Also no oil spill has been occurred till date at the port and in nearby area.	
	All the recommendations of SCZMA shall be complied with. Periodical study on shore line changes shall be conducted and mitigation carried out if necessary. The details shall be submitted along with six monthly monitoring reports. Oil spills if any shall be properly collected and disposed as per Rules. Proper Oil Contingency Management Plan shall be put in	

Mobilization of Tier 1 and Tier 2 Equipment -BOOM







20	12	\cap
au	Ja	ni
		• • • •

S. No.	Stipulated Conditions	Compliance Status as on 30.09.2023
vii.	All the recommendation of the EMP and DMP shall be complied within letter and spirit.	
viii.	be carried out to check the	 Marine water quality is being monitored through M/s. Pollucon Laboratories, Surat (a MoEF&CC recognized and NABL accredited laboratory). The sea surface and bottom water quality is being monitored periodically. The trends
ix.	Transport of cargo shall in closed system and dust control viz. water sprinkler, along conveyor and transfer points shall be provided.	Following control measures are in place and effectively working at port to control fugitive dust: -





S. No.	Stipulated Conditions	Compliance Status as on 30.09.2023
		The photographs of Covered Conveyor belts, Mist Canyon and water sprinkling system, Green Belt area, Wind break shield, Road sweeping machines are attached herewith as Annexure 6
x.	Construction activity shall be carried out strictly as per the provisions of CRZ notification 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone.	• No construction work other than those permitted in CRZ Notification has been done.
xi.	The project shall be executed in such a manner that there shall not be any disturbance to the fishing activity.	• AHPL is regularly working with fishermen to understand their needs and provide required support as part of CSR activities. AHPL is carrying out various CSR activities in the vicinity of port through Adani Foundation (AF), in the field of Education, Community Health, Sustainable livelihood development and Community Infrastructure development and also particular for fishermen community since 2012, the support was extended for providing gears to fishermen, house repairing and construction of house for Halpati community, education to kids from Halpati community and health camps. An significant amount of 1.88 Cr was spent during last six years on various activities specifically for fishermen community in and around the port area. Apart from this, our Foundation team is closely working with Children of Halpati community for enrollment in school and mainstreaming them.
xii.	It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.	 Complied. There is no displacement of people, houses or fishermen as the port is being developed on reclamation land and land allotted by Government also there is no acquisition of private land. Majority of fishing activities are in the river TAPI estuary region which is approx. 3-4 KM away from the project site. There are few "PAGADIA" fishermen doing fishing near the project area. They are continuing with their activities without any disturbance
xiii.	The project proponent shall set up separate Environment Management Cell for effective implementation of the stipulated environmental safe guards under the supervision of a Senior Executive.	
xiv.	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	 Complied. Separate budget has been allocated for the Environment Management. Allocated budget for the FY: 2023-24 is INR 732.81 Lacs and total expenditure during the compliance Period is INR 402.441 Lakhs regarding environment management. Detail of the environment budget of the current FY and expenditure incurred during compliance period is enclosed as Annexure-8 Environment budget is not being diverted to any other purpose.
7.	General Conditions	



S. No.	Stipulated Conditions	Compliance Status as on 30.09.2023
i.	Appropriate measures must be taken while undertaking digging activities to avoid any degradation of water quality.	No digging activities were carried out during the compliance period.
ii.	Full support shall be extended to the 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 plans including the action taken reports in respect of mitigation measures and other environmental protection activities.	AHPL is regularly submitting six monthly compliance reports which comprise compliance to the conditions stipulated in Environment and CRZ clearance, action taken report of Environment Management Plan, environment monitoring reports etc.
iii.	A six-monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.	· · · · · · · · · · · · · · · · · · ·
iv.	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary subsequently, if deemed necessary for environmental protection, which shall be complied with.	
V.	The Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	
vi.	implementation agency, a fresh	Complied Name of the port was changed from Adani Hazira Port Private Limited to Adani Hazira Port Limited and the letter received from MoEF&CC regarding the name change was submitted with last EC compliance report as Annexure 9 on 28.05.2021.





1		
S. No.	Stipulated Conditions	Compliance Status as on 30.09.2023
	Ministry of Environment and Forests.	
vii.	well as the Ministry the date of financial closure and final	Financial Closure date was 29 th September 2011. Approval from GMB to commence work was obtained on 09 th April, 2010 vide letter No.: GMB/N/PVT/923(10)/42/458. Copy of the same has been submitted to the MoEF & CC and other concerned authorities along with the six monthly compliance report dated 19.05.2017.
viii.	Panchayat/ Local NGO, if any from whom any suggestions/	Complied. Copy of the clearance letter was sent to the concerned Panchayat and local NGO. Copy of the RPAD receipt were submitted to MoEF&CC along with six monthly compliance report dated 27.11.2013 and again along with the six-monthly compliance report dated 19.05.2017.
ix.	shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's Office for 30 days.	This condition does not belong to AHPL.
8.	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 thereafter.	 AHPL has obtained: - Environmental and CRZ Clearance issued by MoEF & CC, New Delhi vide letter No.: 11-150/2010-IA.III dated 03rd May, 2013. Consolidated Consent and Authorization under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981 vide Consent Order No.: AWH-118804 valid till 12.07.2027 was submitted on 30.11.2022. Public Liability Insurance (PLI) vide Policy No.: 41078151, IFFCO TOKIO General Insurance Company Limited valid up to 31st March, 2024. Attached herewith as Annexure 9
9.	All other statutory clearance such as the approvals for storage of diesel from Chief Controller of Explosive, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective competent authorities.	All applicable clearances from respective authorities have been obtained i.e.: - 1. PESO License from Chief Controller of Explosive, Nagpur vides Order No.: P/HQ/GJ/15/5294 (P270337), Renewed and valid till 31/12/2025. Copy of the PESO License was submitted with last Six Monthly EC Compliance Report.





S.	Stipulated Conditions	Compliance Status as on 30.09.2023
No.		·
10.	The project proponent shall	-
	advertise in at least two local newspapers widely circulated in	, , , , , , , , , , , , , , , , , , , ,
	the region, one of which shall be	News Paper "The Times of India" on 13/05/2013 (within 10 days of receipt of EC & CRZ clearance).
	in the vernacular language	 Copy of the advertisement is submitted to MoEF&CC along with the six-monthly
	informing that the project has	compliance report dated 27 th November, 2013.
	been accorded Environment and	compliance report dated 27 November, 2015.
	CRZ clearance and copies of	
	clearance letters are available	
	with the State Pollution Control	
	Board and may also be seen at	
	Website of the Ministry of	
	Environment & Forests at	
	http://www.envfor.nic.in	
	The advertisement should be	
	made within 10 days from the	
	date of issue of the clearance	
	letter and a copy of the same	
	should be forwarded to the	
	Regional Office of this Ministry at	
11	Bhopal.	Noted
11.	This clearance is subject to final order of the Hon'ble Supreme	Noted.
	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.	
12.	Status of Compliance to the	Complied.
	various stipulated	Compliance report of conditions stipulated in Environment and CRZ Clearance is being
	environmental conditions and	
	environmental safeguards will	http://www.adaniports.com/ports-downloads
	be uploaded by the project	
10	proponent in its website.	M
13.	Any appeal against this clearance	Noted.
	shall lie with the National Green Tribunal, if preferred, within a	
	period of 30 days as prescribed	
	under Section 16 of the National	
	Green Tribunal Act, 2010.	
14.	A copy of the clearance letter	Closed,
	shall be sent to concerned	Copy of the clearance letter was sent to the concerned Panchayat and local NGO from
	Panchayat, Zila Parishad/	whom the suggestions/ representations received.
	Municipal Corporation, Urban	Copy of the RPAD receipt is submitted to MoEF & CC along with Six Monthly Compliance
	Local Body and the Local NGO, if	Report dated 27.11.2013 and again along with the six monthly compliance report dated
	any from whom suggestions/	19.05.2017.
	representations if any, were	• Clearance letter is available on website at http://www.adaniports.com/ports-
	received while processing the	<u>downloads</u>
	proposal. The Clearance letter	
	shall also be put on the website	



S. No.	Stipulated Conditions	Compliance Status as on 30.09.2023
	of the company by the proponent.	
15.	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. The six monthly compliance report comprising of the status of compliance of the stipulated EC conditions, including results of monitored data is being uploaded on the company website at http://www.adaniports.com/ports-downloads Also the compliance report was submitted to following: 1. IRO -MoEF&CC, Gandhinagar 2. MoEF & CC, New Delhi, 3. DoEF, Gandhinagar, 4. Zonal Office - CPCB, Vadodara, 5. HO - GPCB, Gandhinagar, and 6. RO - GPCB, Surat. Last report was submitted on 01.06.2023 through E mail.
16.	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 Environment (Protection) Rules 1986, as amended subsequently, shall also be put on the website of the company along with status of compliance of EC Conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied. The Environment Statement in Form-V for the Financial Year: 2022-23 is submitted to GPCB vide dated 30.06.2023 and attached herewith. As Annexure 9 http://www.adaniports.com/ports-downloads



APPENDIX-1:

HAZIRA PORT PVT. LIMITED

COMPLIANCE TO THE CONDITIONS STIPULATED IN CRZ RECOMMENDATIONS

ISSUED BY FORESTS & ENVIRONMENT DEPARTMENT,

GOVERNMENT OF GUJARAT TO MOEF & CC, NEW DELHI

VIDE LETTER NO.: ENV-10-2012-30-E, DATED 11TH MAY, 2012

FOR MODIFICATION / EXPANSION OF MULTI - CARGO PORT FACILITY AT HAZIRA, DIST. - SURAT BY M/S. ADANI



Appendix -1: Compliance to the conditions stipulated in CRZ recommendation issued by Forests & Environment Department, Government of Gujarat to MoEF & CC, New Delhi vide letter No.: ENV-10-2012-30-E dated 11th May, 2012 for modification / expansion of Multi-Cargo Port Facility at Hazira, Dist. - Surat by M/s. Adani Hazira Port. Limited: -

S. No.	Conditions	Compliance Status
A.	Specific Condition	
2	The provision of CRZ Notification 2011 shall be strictly adhered by M/s. AHPPL. No activity in contradiction to the provision of CRZ Notification shall be carried out by M/s. AHPPL. M/s. AHPPL shall not construct any storage	 Construction activities are carried out as as per the provisions of CRZ Notification, 2011. No construction work other than those permitted in CRZ Notification has been done. Development of the port and other ancillary facility is being done as per the approval received under CRZ Notification, 2011 and EIA Notification, 2006 and subsequent amendments. Complied.
	facilities for material / chemicals in the CRZ area except for those permissible as per Annexure - II of CRZ Notification 2011 also for other hazardous chemicals, outside CRZ Areas, the AHPPL shall consult SDMA for Disaster Management Plan.	dated 20.10.2012. Comments were received from authority vide letter no. GSDMA /SM / Ind.safety/ 770560 dated 03.12.2012. Suggestions were incorporated and revised plan was submitted to GSDMA on 23.05.2014. Last Mock Drill was conducted on 26.08.2023. The scenario was, Multiple Cargo Vessel Operation is going on at the jetty. All of sudden there was splash of cargo from the flexible hose connected to jetty manifold. There was heavy leak and Splash on the jetty. Last Update of ERP & DMP: 28.03.2022 Last submission of ERP & DMP to Chief Controller of Explosive on 29th March 2022 and Joint Director
3.	All necessary permissions from different	Industrial Safety and Health on 20.06.2022. Complied.
	Government Departments / agencies shall be	



S. No.	Conditions	Compliance Status
	obtained by M/s. AHPPL before commencing	All the statutory permissions from the concerned
	the activities.	statutory authorities are obtained i.e.: -
		 Environment and CRZ Clearance from MoEF & CC, GOI vide order No.: F.No.:11-150/2010-IA-III dated 03.05.2013, CTE & CC&A from Gujarat Pollution Control Board (For details Please refer EC condition 9) PESO License from Chief Controller of Explosive, Nagpur License to work a Factory Adani Hazira Port Ltd. (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat. Please referrer EC condition 9 for details.
4.	The AHPPL shall ensure that there shall be no	•
		There are no adverse impacts on mangrove as well as
		flow of water with respect to development activities.
	water to avoid damage to the mangrove.	
5.	No dredging, reclamation or any other project	
		There is no dredging and reclamation activities are
	area categorized as CRZ-I (A) and it shall have	
		Development of the port and other ancillary facility is
		being done as per the approval received under CRZ
		Notification, 2011 and EIA Notification, 2006 and
	to any of the project activities.	subsequent amendments.
		The mangrove habitats near by the port are being
	The document of the United States	protected by AHPL.
6.	The dredging material shall be disposed of at	·
		As per communication from MoEF&CC dated 12 th
		November 2003 bearing letter No.: J-16011/ 11/2003-
	India.	IA-III- Hazira Port Pvt Ltd conditions states "dumping
		of dredged spoils should be dumped at the sites A & C
		as per the following coordinates: -
		(A) 21°03′ to 21°05′ N & 72°28′ to 72°30′ E
		(C) 21°03′ to 21°05′ N & 72°30′ to 72°32′ E
		The maintenance dredging is being carried out through
		Water Injection dredger in which no Dredging material
		is generated. Some part of dredging is being carried out
		through Cutter Section Dredger and in this process
		Dredging material is being generated. No disposal has
		been done till date. All the dredging material is being
		utilized for level rising, reclamation and apart from the
		above activity, if any excess material generated will be



ADANI HAZIRA PORT LIMITED

disposed of at the location already a	pproved by the
MoEF&CC.	
7. All the recommendations and suggestions Complied .	
given by M/s. NIO and Cholamandalam MS All the recommendations and so	uggestions for
Risk Services Ltd, Chennai in their EIA reports conservation/protection and be	etterment of
for conservation / protection and betterment environment are being implement	ented strictly.
of environment shall be implemented strictly Recommendation given in EMP is bei	ing complied in
by M/s. AHPL. letter and spirit. Status of the same	is enclosed as
Annexure-3.	
8. The construction and operational activities Complied .	
shall be carried out in such a way that there is There are no mangroves and other imp	ortant coastal /
no negative impact on mangroves, if any and marine / habitats presents within the po	ort development
other important coastal / marine / habitats. area.	
The construction activities shall be carried out There is no construction activity in	the compliance
only under the guidance / supervision of period.	
reputed institute / organization. The Port development work is superv	ised by Gujarat
Maritime Board (GMB).	
9. M/s. AHPPL shall strictly ensure that no Complied .	
creeks or rivers are blocked due to any activity All the activities are carried out as	per EC & CRZ
at Shipyard. clearance and no creeks are blo	ocked due to
development activities. Shipyard is not e	envisaged in our
proposal.	
10. The construction debris and / or any other Complied	
type of waste shall not be disposed of into the Construction and Demolition waste is be	eing managed as
sea, creek or in CRZ areas. The debris shall be per Construction and Demolition waste	rules 2016.
removed from construction site immediately	
after the construction is over.	
11. The construction camps shall be located Complied.	
outside the CRZ area and the construction During construction phase laborers have	e been managed
labour shall be provided with the necessary through contractors and they are from	om surrounding
amenities, including sanitation, water supply villages so they stay in their own reside	ntial facilities in
and fuel and it shall be ensured that the the surrounding villages.	
environmental conditions are not Drinking water, toilets and rest she	Iters are being
deteriorated by construction labours. provided to the labors during work.	
12. M/s. AHPPL shall prepare and regularly Complied.	
update their Local Oil Spill Contingency and Oil Spill Contingency Plan is prepare	
Disaster Management Plan in consonance was approved by Indian Coast Gua 7563, dated 09.01.2014).	ard (Letter No.:
with National Oil Spill and Disaster • Disaster Management Plan was pro	-
Contingency Plan and shall submit the same the commissioning of multi cargo po	ort.



S. No.	Conditions	Compliance Status
3. 140.	to this department after having it vetted	·
	through Indian Coast Guard.	dated 20.10.2012.
		 Comments were received from authority vide letter no. GSDMA /SM / Ind.safety/ 770560 dated
		03.12.2012.
		 Suggestions were incorporated and revised plan was submitted to GSDMA on 23.05.2014.
		Regular mock drill to ensure the compliance and
		preparedness is being done. Last Mock Drill (On Site) was on :26.08.2023.
		Last Update of ERP & DMP: 28.03.2022
		Last submission of ERP & DMP to Chief Controller of Explosive on 29.03.2022
13.	M/s. AHPPL shall bear the cost of external	Noted and agreeing to bear the cost of external agency,
	agency that may be appointed by this	if any that may be appointed by this department.
	department for supervision / monitoring of	
	proposed activities and the environment	
	impact of the proposed activities.	
14.	The jetty and most of the approach would be	Complied.
	supported on piles allowing adequate flow of	Jetty approach is supported by piles allowing adequate
	water without significant obstruction.	flow of water.
15.	The ground water shall not be tapped within	Being Complied
	the CRZ areas by the AHPPL to meet with the	Ground water is not being used for any purpose in the
	water requirements in any case.	Port. The industrial water requirement is being met
		through 2000KL per day of treated wastewater from
		M/s. KRIBHCO and domestic water requirement is met
1.0		through tanker water.
16.	M/s. AHPPL shall take up massive greenbelt	
	development activities in consultation with	The Green Belt is being developed by AHPL. The total
	Forest Dept. / GEER Foundation / Gujarat	Green Belt area developed till 30st SEPTEMBER 2023 is
	Ecology Commission. A comprehensive plan for this purpose has to be submitted to the	78.79 Ha. Photograph of Green Belt area is attached herewith as Annexure 6
	Forests and Environment Department.	nerewith as Affiexure o
17.	Mangrove plantation in 200 Ha. shall be	Complied
17.		Company has carried out mangrove afforestation in an
		area of 200 hectares i.e.: 50 hectares in Kantiyajal and
		150 hectares in Village Nada-Devla of District - Bharuch
	issuance of CRZ clearance by MoEF, GoI and	, and the second
	•	Consolidated report on mangrove plantation on an area
	-	of 200 hectares at Village: Kantiyajal, Taluka: Hansot and
	satellite images and GPS readings with	Village: Nada-Devla, Taluka: Jambusar, District: Bharuch
	Latitudes and Longitudes.	(Gujarat) developed by M/s. Saline Area Vitalization
		Enterprise (SAVE) Limited, Ahmedabad. Supporting
<u></u>		





S. No.	Conditions	Compliance Status				
		docum	documents of the same submitted to MoEF & CC			C and
		other a	authorities along	with the six-m	onthly comp	liance
			dated 20.11.201			
			cological health		of the man	grove
		planta	tion is being car	ried out by G	ujarat Institu	ute of
		-	Ecology.			
18.	The AHPPL shall have to take up bio-shielding	Compl	ied			
	development programme as part of CSR in	AHPL	has developed	Bio-Shield at	Village - Ta	ankari
	consultation with Forest Department / PCCF	Bandaı	r, Taluka - Jambı	ısar, District -	Bharuch (Gu	ıjarat)
	and action plan in this regard shall have to be	in an a	rea of 18 hectar	es with the h	elp of a local	NGO
	submitted to the MoEF - GoI and this	named	Saline Area	Vitalization I	Enterprise (SAVE)
	Department.	Limited	d.			
		The e	cological health	assessment	of the Bio	shield
		planta	tion was carried o	out by Gujarat	Institute of D	Desert
		Ecolog	у.			
19.	M/s. AHPPL shall have to contribute	Being	Complied			
	financially for taking up the socio-economic	CSR activities carried out by Adani Foundation in			n four	
	upliftment activities in this region in	verticals i.e.: - (1) Education, (2). Community Health,			h, (3).	
	consultation with Forest and Environment	Sustainable Livelihood and (4). Rural Infrastructu			ıcture	
	Dept. and the District Collector / District	Develo	pment.			
	Development Officer.	Approp	oriate financial co	ontribution is	being made t	to the
		Schem	es promoted by	District Autho	rities and For	rest &
		Enviro	nment Departm	ient, GoG ai	e also incl	uded.
		Please	refer the Annex	cure-2 for the	status of th	e CSR
		activiti	es planned and c	arried out dur	ing the comp	liance
		period	·			
		Sr. No.	Vertical	Approved Budget for FY 2023-24 (In Lacs Rupees)	Utilization amount (In Lacs Rupees)	
		1	Education	99.11	43.75	
		2	Community Health	16.70	3.09	
		3	Sustainable Livelihood Development	65.97	19.47	
		4	Community Infrastructure Development	46.77	3.60	
		5	General Management and	15.10	12.50	
			Administratio	<u> </u>		





S. No	Conditions	Compliance Status					
				n for CSR activities			
				Total	243.65	82.42	-
20.	A separate budget shall be earmarked for environment management and socio-economic activities including green belt development / mangrove plantation 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 along with the compliance report.	• E find in the second of the	nvi und mpl nvi nvi lea nd he c SR our leal nfra	ronmental Manada ementation of ronment monifornment monifornmental studing se refer the And extinction is carried verticals i.e.: - lth, (3). Sustain is tructure Developmental extructure Developme	re being util environment toring. Key toring, Man es etc. Inexure-8 for Environment od. In Education able Liveliho opment. Exure-2 for the	lized for eff al safeguard component grove plant details of b t Manageme ani Foundat n, (2). Comn od and (4).	ective s and s are cation, oudget int for ion in nunity Rural
21.	A separate Environment Management Cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	Com in li ca ee	npli nvi ual mpl n a ell lso nvi lea	ronment Manag	to ensure environmenta site Environmed corporate ctive implem guards. Annexure-7	the eff I safeguards. nent Manage e environmen nentation o	ective ement nt cell f the
22.	Environment Audit Report including the changes, if any, with respect to baseline environmental quality in the coastal and marine environment shall be submitted every year by M/s. AHPL to this Department as well as MoEF, Gol. A six monthly report on compliance of the conditions mentioned in this letter shall have	• R o N a R o N n Not	egut //s //s //AB //AB //AB //AB //AB //AB /		tal Monitorin approved en ratories, Surar poratory) and with Six Mo es observed w	vironment a t (a MoEF&C others cond onthly Comp vith respect t	uditor C and erned liance o past
	to be furnished by M/s. AHPL on a regular basis to this Department as well as MoEF, Gol.	• L	o al	I the concerned report was sub	authorities o	n regular bas	is.
24.	Any other condition that may be stipulated by this Department / MoEF, GoI from time to time for environment protection / management purpose shall have to be complied with by M/s. AHPL.			and comply w		litional cond	ditions



Annexure 2

<u>Details Of The CSR Activities Along With Budgetary Provisions And Expenditures For the Compliance Period April</u>

<u>2023 to September 2023</u>



Details of CSR Budget Expenditure:

Sr. No.	Vertical	Approved Budget for FY 2023-24 (In Lacs Rupees)	Utilization amount (In Lacs Rupees)
1	Education	99.11`	43.75
2	Community Health	16.70	3.09
3	Sustainable Livelihood Development	65.97	19.47
4	Community Infrastructure Development	46.77	3.60
General Management and Administration for CSR activities		15.10	12.50
	Total	243.65	82.42

Details of CSR Expenditure of last three Financial Years

S.NO	FY	Budget (In INR Lacs)	Expenditure (In INR Lacs)
1	2020-21	255.13	223.61
2	2021-22	668.89	469.35
3	2022-23	477.1	399.06





ADANI HAZIRA PORT LIMITED

Half Yearly Report of Adani Foundation – Hazira (H1-FY 2023-24)

Adani Foundation is working as a CSR wing of Adani Group and the CSR activities are being conducted in the four major thrust areas.



A. Education:

• UTTHAN PROJECT :

The future of India depends upon the quality of education imparted to our children. We believe that it is the joint responsibility of the Government and citizens to improver school education. With an aim to enhance the quality of primary education in Surat District, Adani Foundation is has implemented this Utthan Project in 10 Government Primary Schools of Hazira area from December-2019. The project is running successfully. Under this project focus is on progressive learners (PRIYA VIDYARTHI) and celebrate their progress, make learning joyful, provides adequate resources and facilities, strengthen the curricula to provide basic skills, especially in the areas of literacy, numeracy and skills for life and focus on Teachers' capacity building. 4196 students of 32 Government Primary Schools are benefitted under project Utthan of 03 Blocks and 30 villages of Surat district. 1360 progressive students and 3744 competencies are identified by Utthan Sahayaks

NAVCHETAN VIDHYALAY - JUNAGAM:

Adani Foundation has been sponsoring this primary school in nearby village Junagam (Shivrampur) academic & administratively for last 9 years. The number of students are increasing every year in the school which is against the normal trend of reducing students in primary schools in rural area. The ratio of boys and girls are also at par, which shows the good academic facilities provided by Adani Foundation has motivated village people to send their girl child to school. 413 students are studying from KG to Class VIII.







Udan:

- Total 13 institution were engaged & 598 participants visited AHPL & AWL, Hazira during compliance period.
- 01 expert session was arranged during this month.
- B. Sustainable Livelihood Development:

Project KAMDHENU

Adani Foundation has signed MoU with BAIF for designing and implementing its activities related to Animal Husbandry. Under this project, awareness is created for best livestock management practices. Different types of trainings are imparted to cattle owners. Artificial Insemination (AI) is one of the very popular and most demanding activity under this project. Also to save energy and to do sustainable irrigation, the process for providing solar pump is initiated. Two dedicated centres are set up at Junagam (Shivrampur) and Barbodhan to undertake various activities by BAIF in nearby villages. The activities covered under this project are listed below:

- a) Trainings/Meetings to adopt best livestock practices
- b) Exposure Visits
- c) Calf rearing
- d) Deworming
- e) Infertility Camps
- f) Model Fodder Plot Development
- g) Sex Sorted Semen
- h) Artificial Insemination
- i) Vaccination for livestocks
- j) Mineral Mixer







Adani Foundation is working with SHGs groups in nearby 8 villages. The focus is on development of new SHGs and to empower them/make them self-sustained. Exposure visits are conducted for SHGs and material support is extended by Adani Foundation

• Community Health:

The Adani Foundation firmly believe that improving the health of citizens can directly result in economic growth of the nation. Healthy people can utilise growth opportunities made available to them in a better way. Adani Foundation have committed itself to raising the standards of and strengthening healthcare systems in and around our operational village in Hazira area to ensure healthy lives and promote well-being at all ages in alignment with Sustainable Development Goals of the UN.

CSR Budget and It's Utilization Ststus

(All Amount in Lacs)									
Vertical	Annual	Apr-	May-	Jun-	Jul-	Aug-	Sep-	Utilization	Utilization
	Budget	23	23	23	23	23	23		in %
General Management	15.10	2.42	1.33	1.35	4.67	1.37	1.36	12.50	82.81%
and Administration									
Education	48.61	1.79	3.53	8.28	5.10	4.79	2.66	26.14	53.78%
Community Health	16.70	0.76	0.46	0.46	0.46	0.46	0.46	3.09	18.50%
Sustainable Livelihood	65.97	6.92	1.45	1.02	6.11	0.91	3.05	19.47	23.39%
Development									
Community	46.77	0.47	0.47	0.47	0.62	0.47	1.08	3.60	7.70%
Infrastructure									
Development									
Utthan	50.50	2.11	2.48	2.44	2.64	4.62	3.32	17.61	34.87%
Total	243.65	14.48	9.73	14.03	19.61	12.63	11.94	82.42	31.59%



Annexure-3:

Compliance Status of EMP as mentioned in the Integrated EIA Report, Sep. 2012:





S.	EMP Conditions	Compliance Status as on 30 th September
No.	LIVIF CONDITIONS	2023
I.	AS PER TERRESTRIAL ENVIRONMENTAL IMPACT	
	ASSESSMENT REPORT: -	
Α	CONSTRUCTION PHASE:-	
1.	Dredged Soils Management Plan:	Complied.
	AHPL has been permitted to dredge about 37 million cubic meter of soil, which shall be reused for backfilling	No disposal was done till date. All the dredging material was utilized for level
	in the project site. The dredged soil samples will be	raising, reclamation.
	collected and analysed periodically for designated	If any excess material generated will be
	pollutants as per the recommendations of statutory	disposed of at the location already approved
	authorities.	by the MoEF&CC.
2.	Air Quality Management:	Being Complied
	Fugitive dust will be generated during construction	
	phase of the project due to handling of wet dredged and	roads on regular basis.
	excavated soils. Dust control program will be	
	implemented to reduce the dust generation during	
	construction at project site. Water sprinkling will be adopted on haulage roads and construction site.	
3.	Noise Control Programs:	Complied
	Onsite fabrication activities should be undertaken at	•
	a designated location, which should be located away	designated location away from the office
	from the office buildings and any other working areas.	buildings and working areas.
	2. In case noise emissions from the fabrication activities	Complied
	exceed a level of 85 dB (A) at the fence-line of the	Noise level was below 85 dB(A) during the
	fabrication yard, temporary noise barrier can be	fabrication. Currently no fabrication activities
	installed.	are going on.
	3. Portable diesel engine generators and diesel engine driven compressors, if any, should be covered with noise	I -
	enclosures.	portable diesel engine generators and diesel
		engine driven compressors to reduce the
		noise level.
4.	Sewage Management Program:	Being Complied
	Sewage generated from the construction site will be	
	treated in modular STP and shall be used for green belt	_
	development / landscaping after achieving prescribed standards by GPCB.	being used for greenbeit development.
5.	Solid and Hazardous Waste Management Program:	Being Complied
.	The solid waste generated should be segregated and	All the wastes are being segregate at source
	categorized under various rules such as HWM 2008,	and handled as per applicable rules/
	SWM 2000, the Batteries Rules 2001 including	guidelines and disposed off through GPCB
	processing of used oil by authorized recyclers should be	approved agency.
	carried out by the rules and procedures prescribed by	
	CPCB and also meet the requirements of GPCB.	
6.	Construction Phase Storm Water Runoff:	Complied
.	It has been recommended to adopt soil stabilization	Separate storm water drain was developed to
	plans and storm water sedimentation basins to control	discharge the storm water.
	the silt before discharging the storm water into sea.	_
7.	Sanitation:	Complied
	The facilities presently available with the nearby villages	Proper sanitation arrangements were
	will continued to be used during construction activities	available for workers at project site.
	and no major sanitation problem is expected during	
	construction period. The workers at the project site will be provided with proper sanitation arrangement.	
В.	OPERATION PHASE: -	
1.	Air Quality Management:	
i.	Cargo-Handling Equipment:	Being Complied
	Retrofitting the old equipment to meet the vehicular	
	emission standards.	PUC certified.
		





2.	All the vehicles and equipment will be certified with
	PUC norms shall be deployed.

ii. Standby Diesel Generators:

DG Sets will be operated on clean diesel fuel with sulphur content less than 0.5%. Minimum stack height of 30m will be provided to disperse the gases into the atmosphere as per the guidelines suggested by Central Pollution Control Board.

iii. Fugitive Coal Dust Control Program:

The management of AHPL has proposed to adopt the following fugitive coal dust control measures: -

- a. Dry Fog System A new, proven and cost effective technique to control dust is "Dry Fog" system to suppress the dust from the air. The name fog is just what it implies small droplets of water injected into the air. Fogging works by releasing very small droplets of water into the air. Airborne dust particles adhere to the water droplet and agglomerate. If the fog is generated in the right way, by using pressurized water, the energy required can be very low between 2 to 3 kW for a system requiring hundreds of nozzles, e.g.: A large stockpile tripper conveyor giving considerable operating cost savings when compared to other techniques, The sprinkler droplet sizes should be maintained less than 100 microps
- b. Sprinklers: Once stockpiled, water can be sprayed on the stockpiles to keep them damped down. Swivelling sprinklers should be used along the lengths of the stockpile with caution, however, as the volume of water required can be significant, causing drainage and run-off treatment problems.

2. Noise Control Program:

The following source noise control plans have been suggested: -

- Covering of sound intensive components with insulation.
- Using noise absorbing building materials if required for housing compressors and diesel generators etc. as per the guidelines suggested by Central Pollution Control Board.
- Adopting low noise driving (Eco-driving)
- Using silent exhaustion pipes for major diesel engine vehicles and heavy trucks operated inside the port.
- ➤ Planting trees which act as barrier to arrest dispersion of noise levels.
- Using electricity powered equipment inside the port instead of diesel powered ones will be explored to the extent possible.

3. Waste Water Management:

Port handling operations would generate wastewater from the following sources: -

- 1. Ship ballast water,
- 2. Ship deck wastewater including sewage,
- 3. Rejects from desalination plant,
- 4. Workshop and vehicle maintenance shop wastewater,
- 5. Leachate from coal stock yard,

Being Complied

DG Sets are being operated only in case of power failure, DG are operated on clean diesel fuel with sulphur content less than 0.5% and provided the adequate stack height are being provided as per CPCB/GPCB norms to disperse the gases into the atmosphere.

Complied.

Following control measures are in place and effectively working at port to control fugitive dust: -

- Transportation of coal from jetty to coal storage yard through 1.7 Km. long conveyor belt with hood.
- 2. Water sprinklers in the coal yard,
- Dust Suppression System / Spray Nozzles in Conveyor System and Discharge Chute,
- 4. Water spray through Water Browsers,
- 5. Water Mist Canon / Fog System,
- 6. Wind Brake Shield of 14 meters high and 1900 meters long,
- 7. Transportation of cargo from port to hinterland is being done through dumpers / trucks covered with tarpaulin,
- 8. Regular cleaning of the roads through Road Sweeping Machines, and
- 9. Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 78.79 ha within the port premises.

Complied.

- All the sound intensive components (DG Set and Compressor) are with acoustic enclosures.
- Green belt development is in progress.
- All RTGs and Quay Cranes are electricity operated.

Being Complied

- AHPL is not accepting Ballast/ Sewage water from Ships.
- Desalination plant not yet installed.
- There is no effluent generation from workshop. Vehicle maintenance is not done in port premises.
- There is no leachate from dump pond.



- 6. Floor cleaning and tank cleaning wastewater from the liquid tank farm,
- 7. Sewage from port facilities. The proposed wastewater treatment and reuse program has been presented hereunder: -

A variety of vessels use the waters within the port, including bulk coal ships, tugs and line boats. Discharges from bulk ships are not expected to occur within the port because these large ships normally have on-board storage and sewage treatment plants, allowing discharge of treated effluent at sea as per the provision of MARPOL.

- Except monsoon, leachate from coal stock yard is not envisaged. However small quantities, if any, will be treated in the effluent treatment plant. Wastewater from vehicle work-shops will also be treated in the proposed onsite effluent treatment
- As far as possible all chemical spills at liquid No spill has occurred till date. If, spills handling facilities will be treated with dry spill absorbing material and water will not be used. Spillage if any occurs will be treated in a dedicated onsite wastewater treatment plant, which consists of an oil removal unit, primary chemical treatment unit and biological treatment units followed by activated carbon unit. Biologically treated wastewater will be further treated in the central sewage treatment plant. Treated wastewater will be used for dust suppression and horticulture applications at the facility. No treated wastewater will be discharged outside the port facilities.

- Tank cleaning wastewater is being treated into ETP.

Domestic waste water is being treated in the STP and then used for horticulture purpose within the port premises.

Complied.

Dedicated coal dump pond is provided to collect the runoff (if any) from coal yard and it is further reused for dust suppression purpose into coal yard.

Complied with.

occurred, spilled material/chemical will be treated into ETP and treated wastewater will be reused in greenbelt development / plantation purpose.

4. **Storm Water Management Plan:**

- > Storm water from the coal stockpile area will be passed through a series of sediment traps to remove the majority of the coal sediment before discharging into the natural drains. It has been proposed to construct a garland drain for all bulk storage facilities to avoid silting into the marine eco-system.
- All liquid storage tanks will be provided with dykes to **Complied**. avoid any cross contamination of storm water from chemical spills. Storm water drains shall be designed in order to avoid any flooding of the coal stock yard and liquid chemical tank farm areas.

Solid and Hazardous Waste Management:

Solid wastes generated from the port handling facilities consist of packaging waste such as wood, paper/carton, steel scrap etc.

Complied

Garland drain for all bulk storage facilities are provided to avoid silting into the marine ecosystem. Storm water from the coal stockpile area is collected into dump ponds to remove the coal sediment.

All liquid storage tanks are provided with dykes to avoid any cross contamination of storm water from chemical spills. Storm water drains and effluents drains are separate.

Complied.

- Solid wastes generated during development i.e.: construction demolition wastes are reused for level rising of low lying area within the port premises. Kitchen/ Horticulture/Garden wastes are being sent to Organic Waste Converter (OWC) to convert it into compost and reused as manure in greenbelt/plantation.
- Packaging materials generated from the cargo handling i.e.: Wood, Paper/Carton,



- All the hazardous wastes and solid wastes such as Oil **Complied**. containing cargo residue, Chemical containing cargo residue and sludge, contaminated cotton waste, spent exchange resin and ETP Sludge, etc. shall be storage shed/yard. segregated at source and stored at the earmarked
- Recyclable wastes will be collected and disposed to waste recycling vendors through certified recyclers wherever applicable.
- Hazardous wastes include contaminated chemical spills, spent dry adsorbing spill absorbing material used for large marine and onshore chemical spills, used lubricating oils and greases. The chemicals spill inventories and spent dry absorbing material will be stored in a dedicated onsite tank and will be disposed to authorized hazardous waste incinerators.
- > Spent lube oils and greases will be disposed to authorized used oil recycling vendors.
- > A dedicated and completely enclosed shed will be identified to store the hazardous wastes in order to avoid any cross contamination from storm water.
- > All the waste should be segregated, collected, categorized as per the HWM Rules 2008, SWM Rules 2000 and Batteries Rules 2001 prescribed by CPCB under Environmental Protection Act, 1986.

Steel Scrap, Plastic/Tarpaulin etc. are collected and sold out to recyclers.

All the wastes are segregated at source and stored at a dedicated Hazardous Waste

Complied.

Recyclable waste is being collected and disposed of through CPCB/GPCB registered recyclers.

Complied.

No spill has occurred till date.

Complied.

Recyclable wastes is being collected and disposed off through CPCB/GPCB registered recyclers.

Complied.

All the wastes are stored at a dedicated hazardous waste storage shed/yard.

Being Complied

All the wastes are being segregate at source and handled as per applicable rules/ guidelines.

Greenbelt and Plantation:

- AHPL will develop thick green belt plantation in and around the proposed project facility covering 81.27 Ha. Efforts will be taken to increase the green cover for plantation at periphery / avenue in and around the project boundary using local species with a view to ameliorating project related disturbances and enhancing the ecological value of the area. Greenbelt would be developed as per the CPCB guidelines.
- > A capital cost of Rs. 1.62 Crore and an annual recurring budget of Rs. 0.65 Crore will be earmarked | Horticulture budget for FY 2023-24 is Rs. 149 for this purpose.

Complied

Company has set up dedicated greenbelt area plantation / landscaping etc. Total greenbelt area developed so far is approx. 78.79 ha till 30th September 2023

Lakhs and expenditure during compliance period is INR 78.01 Lakhs.

Community Development Plan:

AHPL has identified focused areas for community development and implement developmental program. The identified activities under CSR program are as follows: -

- 1. Infrastructure development for educational facilities like building of schools, computer rooms, multipurpose activity halls
- 2. Supporting education through distribution of stationary, scholarships, science kits, bicycles to children, conducting education camps, competitions.
- 3. Strengthening the community health by arranging health camps, AID awareness camps, providing financial support to senior citizens and poor people, building dispensaries and mobile dispensaries.

Complied.

- CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development.
- Detail of the CSR activities along with budgetary provisions and progress are regularly submitted to MoEF & CC as part of six monthly compliance reports.
- Please refer the **Annexure-2** for the status of the CSR activities during the Financial Year: 2023-24.





- 4. Improvement of rural sanitation by conducting mass awareness campaign, helping villagers constructing and maintaining household toilets, school toilets.
- 5. Improvement in animal husbandry and agriculture by arranging camps for farmers and cattle owners, conducting programs to use new irrigation technologies, organic farming, and free fodder supply.
- 6. Organizing need based skill development program to women and youth for their empowerment.
- 7. Rural infrastructure development by construction of rainwater harvesting ponds, check dams, roads, bus stops, drainage systems, fish landing shed, solar street lamps.

AHPL has committed to spend about Rs. 8.21 Crore in the first five years of the operation towards rural upliftment and community various development programs and tentative budget has been presented in the below table - Budgeted Expenditure for CSR and Community Development Activities:-

S. No.	Descriptions	Budgeted Amount For 1st 5 year Period (Amount rupees in Crore)
1	Education	2.29
2	Community Health	1.18
3	Sustainable Livelihood Activities	1.43
4	Rural Infrastructure Development	2.04
5	Entry Point Activities	1.27
	Total	Q 21

S.NO	FY	Budget (In INR Lacs)	Expenditure (In INR Lacs)
1	2020- 21	255.13	223.61
2	2021- 22	668.89	469.35
3	2022- 23	477.1	399.06

II. MARINE ENVIRONMENT MANAGEMENT PLAN:

CONSTRUCTION PHASE: -A.

- The dredge spoil generated during capital dredging will be used for land reclamation for the port development and associated utilities.
- ➤ Unused dredged material will be disposed off at raising, reclamation. approved dump sites to the north of port area Complied including dredged soil generated maintenance dredging.
- Appropriate dredging methodology shall be adopted to control the generation of high levels of suspended solids. If the suspended solids concentration increases, the dredging operation should be stopped is being done and there is no abnormal till the normal conditions are achieved.
- General clean up along the corridor used for construction related activities, adjacent intertidal areas, creeks etc. should be undertaken and all the Being Complied. discarded materials must be removed from the site and aesthetic quality of the surroundings to be restored, once the construction activities are completed.

No disposal has been done till date. All the dredging material is being utilized for level

through If any excess material generated will be disposed of at the location already approved by the MoEF&CC.

Noted & Being Complied

Monitoring of turbidity level in the sea water increase observed.

Clean up of the area is regularly being done.

OPERATION PHASE: -

The following mitigation measures are recommended during port operation: -

> Sewage generated from the port operations will be being used for horticulture and green belt treated in sewage treatment plant and treated water shall be used for horticulture and green belt Complied. development.

Complied.

Sewage generated from the port operations is being treated in STP and treated water is development.



- ➤ All the solid waste generated from the port will be properly segregated, stored and disposed as per the applicable statutory requirement.
- All the structures shall be designed in such a way that it should not restrict the prevailing tidal ingress in the creek and mangrove habitats in the vicinity to ensure good health condition.
- Coastline between Suwali Point and Tapti Estuary Complied. mouth and around the port area will be periodically Shoreline change study was conducted by surveyed to assess erosion and accretion. Should the need arises the corrective action in terms of shore stabilization shall be undertaken.

- > All the minor and major spillages of chemicals will be effectively controlled with appropriate tools and equipments.
- ➤ An oil/chemical spill management plan shall be 09.01.2014). evolved and be in place for tier-1 (100t) and tier-2 Noted and Being Complied (700t) spills in consultation with Gujarat Maritime Board/Coast Guard.
- All the marine outfall shall meet the Gujarat Pollution Control Board Effluent Discharge Criteria for Seawater Disposal Standards.
- Monitoring of water area of the port and effluent disposal sited shall be studied for pH and Corg, Suspended Solids, DO, BOD in order to identify for deviations if any from the baseline environmental quality.
- The mitigation measures suggested for effluent release and maintaining of effluent disposal sites should also be adopted for effluent release by NIKO should be implemented.

All the solid waste generated from the port is properly segregated, stored and disposed as per the applicable rules.

Being Complied

Free flow to the mangrove is not restricted by any of our activity.

NIO, Vizag during the period from November 2014 to December, 2015 Study confirms that there is no significant change in the nearby shoreline except for the approved layout of the AHPL. The report did not warrant any mitigation measures.

Shoreline Change Assessment in the port boundary and nearby the area of 10 km radius is conducted by Gujarat Institute of Desert Ecology. The report was submitted to the authority with last EC compliance report.

Noted and Being Complied.

There is no oil spill till date.

Complied.

Oil Spill Contingency Plan has been prepared and the same was approved/vetted by Indian Coast Guard (Letter No.: 7563, dated

No effluent is being discharged.

Complied.

Please refer the Annexure-4D for the Sea Water Quality Monitoring / Analysis Reports for the compliance period April 2023 to September 2023. AHPL is not discharging any effluent outside the port premises.



ANNEXURE-4

Environmental Monitoring / Analysis Results For The Period From April 2023 to September 2023



AMBIENT AIR QUALITY MONITORING (APRIL - 2023 TO SEPTEMBER - 2023)

AIR QUALITY MONITORING RESULTS AT NEAR PORT GATE NO.: 2

SR.	DATE OF SAMPLIN G	LOCATION-1: NEAR PORT GATE NO.: 2 (N 21° 05.426'E 72° 37.739')												
NO		PM ₁₀	PM _{2.5}	Pb	BaP	As	LICON POL	СО	C ₆ H ₆	NH ₃	SO ₂	NOx	03	
JCON POL		μg/m	μg/m	μg/m	ng/m	ng/m	ng/m	mg/m	μg/m	μg/m	μg/m	μg/m	μg/m	
ON POL	03/04/2023	79.73	44.38	0.70	ND*	2.46	10.22	0.86	ND*	29.15	20.40	30.55	29.38	
2	06/04/2023	73.13	37.43	ND*	ND*	ND*	ND*	0.94	ND*	33.37	17.24	37.67	25.57	
3	10/04/2023	82.47	42.35	0.77	ND*	2.56	10.51	0.50	ND*	31.83	12.58	22.92	30.45	
4	13/04/2023	71.39	32.10	ND*	ND*	ND*	ND*	0.47	ND*	34.78	18.20	34.56	28.56	
ON POL	17/04/2023	90.37	52.42	0.68	ND*	2.68	10.73	0.61	ND*	36.28	21.31	40.27	26.91	
6	20/04/2023	74.11	40.21	ND*	ND*	ND*	ND*	0.73	ND*	23.82	25.30	36.25	19.81	
7	24/04/2023	83.87	48.63	0.53	ND*	2.34	10.86	0.54	ND*	25.63	19.52	28.53	24.79	
8	27/04/2023	77.44	41.35	ND*	ND*	ND*	ND*	0.80	ND*	22.41	14.79	26.58	20.88	
9	01/05/2023	85.43	50.23	0.72	ND*	2.46	10.35	0.77	ND*	35.69	22.34	36.67	22.49	
10	04/05/2023	70.39	36.24	ND*	ND*	ND*	ND*	0.64	ND*	25.69	18.24	18.60	28.58	
OM TOL	08/05/2023	83.49	44.63	ND*	ND*	ND*	ND*	0.68	ND*	28.77	24.55	38.64	24.37	
12	11/05/2023	64.86	33.20	ND*	ND*	ND*	ND*	0.81	ND*	30.89	19.75	35.78	29.65	
13	15/05/2023	82.63	47.56	0.62	ND*	2.20	10.76	0.76	ND*	33.88	25.66	41.55	27.12	
14	18/05/2023	75.62	43.55	ND*	ND*	ND*	ND*	0.45	ND*	40.22	16.64	28.72	30.26	
15	22/05/2023	81.66	49.24	0.75	ND*	2.36	10.46	0.86	ND*	36.23	21.23	33.72	26.24	
16	25/05/2023	88.62	52.62	ND*	ND*	ND*	ND*	0.94	ND*	38.13	10.80	44.22	23.68	
17	29/05/2023	73.84	37.33	ND*	ND*	ND*	ND*	0.63	ND*	44.24	23.49	37.24	25.83	
18	01/06/2023	80.46	42.71	ND*	ND*	ND*	ND*	0.94	ND*	39.89	14.31	29.76	28.63	
19	05/06/2023	89.37	51.92	0.77	ND*	2.56	10.39	0.71	ND*	42.48	16.73	31.76	23.52	
20	08/06/2023	70.49	36.54	ND*	ND*	ND*	ND*	0.81	ND*	36.57	22.65	44.25	14.45	
21	12/06/2023	91.25	54.29	0.56	ND*	2.34	10.74	0.65	ND*	26.85	12.18	38.58	25.41	
22	15/06/2023	76.71	45.64	ND*	ND*	ND*	ND*	0.93	ND*	38.15	24.24	42.48	22.42	
23	19/06/2023	85.82	50.54	ND*	ND*	ND*	ND*	0.84	ND*	22.67	15.81	25.37	27.92	
24	22/06/2023	92.42	53.61	0.69	ND*	2.46	10.23	0.48	ND*	34.39	18.40	32.44	21.41	
25	26/06/2023	75.71	38.67	ND*	ND*	ND*	ND*	0.52	ND*	28.67	23.51	40.28	18.58	
26	29/06/2023	66.27	28.47	ND*	ND*	ND*	ND*	0.86	ND*	32.18	17.54	21.93	24.27	
27	03/07/2023	70.32	38.48	ND*	ND*	ND*	ND*	0.69	ND*	27.28	19.97	37.52	24.18	



Authorized Signatory

Recognised by MoEF, New Delhi Under

• GPCB apprved
Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



	EUROPE EUROPE		I MEDUNIN		AND DESCRIPTION OF	WITT I WILLIAM		CONTRACTOR OF THE PARTY OF THE					
28	06/07/2023	75.79	44.31	ND*	ND*	ND*	ND*	0.37	ND*	36.15	23.13	40.28	15.36
29	10/07/2023	80.24	47.42	ND*	ND*	ND*	ND*	0.72	ND*	24.53	16.87	28.39	19.43
30	13/07/2023	86.23	51.27	0.75	ND*	2.34	10.33	0.93	ND*	41.43	21.58	36.55	27.28
31	17/07/2023	72.45	35.60	ND*	ND*	ND*	ND*	0.82	ND*	31.58	18.85	32.43	23.92
32	20/07/2023	63.66	27.84	ND*	ND*	ND*	ND*	0.71	ND*	28.66	22.46	39.24	25.72
33	24/07/2023	69.66	37.52	ND*	ND*	ND*	ND*	0.79	ND*	20.87	17.79	35.47	22.16
34	27/07/2023	64.22	28.43	ND*	ND*	ND*	ND*	0.65	ND*	33.53	15.52	29.33	20.87
35	31/07/2023	83.48	46.28	0.56	ND*	2.11	10.74	0.55	ND*	35.19	9.23	25.55	29.45
36	03/08/2023	76.23	44.34	0.60	ND*	2.26	10.46	0.74	ND*	45.66	23.62	35.73	14.55
37	07/08/2023	69.66	37.65	ND*	ND*	ND*	ND*	0.65	ND*	37.76	18.30	33.45	25.32
38	10/08/2023	78.65	45.66	ND*	ND*	ND*	10.61	0.61	ND*	42.82	13.73	36.28	28.70
39	14/08/2023	88.31	50.24	0.82	ND*	2.42	10.50	0.77	ND*	34.35	25.60	40.38	23.27
40	17/08/2023	73.51	42.34	ND*	ND*	ND*	ND*	0.66	ND*	16.59	22.45	34.58	21.82
41	21/08/2023	81.27	49.37	0.68	ND*	2.20	10.23	0.63	ND*	31.01	19.79	29.56	26.22
42	24/08/2023	75.12	39.13	ND*	ND*	ND*	ND*	0.53	ND*	27.26	24.22	24.90	24.25
43	28/08/2023	68.39	36.27	ND*	ND*	ND*	ND*	0.72	ND*	43.65	16.59	31.61	17.57
44	31/08/2023	74.36	47.53	ND*	ND*	ND*	ND*	0.60	ND*	23.64	21.86	37.60	20.37
45	04/09/2023	72.45	43.17	ND*	ND*	ND*	ND*	0.86	ND*	41.61	21.60	32.28	29.42
46	07/09/2023	66.12	35.43	ND*	ND*	ND*	ND*	0.81	ND*	27.07	24.26	29.67	27.26
47	11/09/2023	70.01	41.48	ND*	ND*	ND*	ND*	0.88	ND*	44.95	15.47	25.65	18.57
48	14/09/2023	64.37	34.34	ND*	ND*	ND*	ND*	0.40	ND*	39.41	17.69	38.45	13.16
49	18/09/2023	86.54	45.23	0.73	ND*	2.21	10.58	0.70	ND*	42.26	10.87	28.36	26.52
50	21/09/2023	79.67	47.24	ND*	ND*	ND*	ND*	0.87	ND*	30.44	16.55	23.63	22.50
51	25/09/2023	83.44	52.05	0.68	ND*	2.42	10.33	0.90	ND*	36.35	20.26	30.75	25.70
52	28/09/2023	69.58	37.65	ND*	ND*	ND*	ND*	0.57	ND*	29.91	18.21	21.37	23.41
C. C. Contract of the Contract													

Observation

Above given Results are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-Idt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

ND*: Not Detected - Lead as Pb ($\mu g/m^3$): 0.5

ND*: Not Detected - Carbon Monoxide as CO (mg/m³): 0.01

ND*: Not Detected - Benzene as C_6H_6 (µg/m³): 2

ND*: Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m³): 0.5

ND*: Not Detected - Arsenic as As (ng/m³): 2 ND*: Not Detected - Nickel as Ni (ng/m³): 5



Authorized Signatory

 FSSAI Approved Lab
 Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

GPCB apprved



TABLE-1.2: AIR QUALITY MONITORING RESULTS AT HSE BUILDING TERRACE

ON POLI	DATE OF SAMPLING	LUCON POLLICON POLICON POLLICON POLLICO											
SR. NO.		PM ₁₀	PM _{2.}	Pb	BaP	As	N POLLUC	СО	C ₆ H ₆	NH ₃	SO ₂	NO _x	03
CON POLICON PO		μg/m	μg/m	μg/m	ng/m	ng/m	ng/m	mg/ m³	µg/m	μg/m	μg/m	μg/m	μg/m
ON POL	03/04/2023	51.95	34.58	ND*	ND*	ND*	ND*	0.72	ND*	11.29	7.29	16.41	17.25
2	06/04/2023	62.45	23.80	ND*	ND*	ND*	ND*	0.53	ND*	21.55	19.23	28.12	11.57
3	10/04/2023	72.48	37.52	ND*	ND*	ND*	ND*	0.17	ND*	19.81	16.19	15.68	15.77
4	13/04/2023	61.66	25.67	ND*	ND*	ND*	ND*	0.42	ND*	15.56	13.23	23.26	22.55
N 5 OLI	17/04/2023	54.12	31.67	ND*	ND*	ND*	ND*	0.26	ND*	20.14	11.28	24.59	20.21
6	20/04/2023	63.29	36.25	ND*	ND*	ND*	ND*	0.40	ND*	17.34	9.12	17.57	13.69
7	24/04/2023	57.75	33.84	ND*	ND*	ND*	ND*	0.15	ND*	10.62	12.26	19.52	16.24
8	27/04/2023	71.69	35.43	ND*	ND*	ND*	ND*	0.71	ND*	16.26	8.54	22.36	10.29
9	01/05/2023	52.21	28.69	ND*	ND*	ND*	ND*	0.36	ND*	22.69	11.35	26.51	18.23
10	04/05/2023	65.64	24.40	ND*	ND*	ND*	ND*	0.22	ND*	19.54	9.68	14.38	14.24
MIOLI	08/05/2023	57.58	38.42	ND*	ND*	ND*	ND*	0.38	ND*	16.14	7.97	17.65	19.85
12	11/05/2023	45.61	16.91	ND*	ND*	ND*	ND*	0.57	ND*	18.95	15.20	28.63	25.69
13	15/05/2023	78.68	35.35	ND*	ND*	ND*	ND*	0.15	ND*	10.14	10.46	25.43	21.28
14	18/05/2023	60.42	25.61	ND*	ND*	ND*	ND*	0.27	ND*	13.13	8.93	18.25	17.56
15	22/05/2023	47.84	21.55	ND*	ND*	ND*	ND*	0.24	ND*	24.69	13.19	23.48	11.63
16	25/05/2023	59.35	23.97	ND*	ND*	ND*	ND*	0.62	ND*	28.66	6.28	33.47	16.19
17	29/05/2023	55.51	32.26	ND*	ND*	ND*	ND*	0.25	ND*	21.81	14.25	26.35	20.15
18	01/06/2023	56.75	25.64	ND*	ND*	ND*	ND*	0.27	ND*	10.35	10.66	22.22	15.38
19	05/06/2023	72.47	41.69	ND*	ND*	ND*	ND*	0.18	ND*	29.27	6.64	18.69	10.47
20	08/06/2023	66.36	30.63	ND*	ND*	ND*	ND*	0.41	ND*	24.73	13.46	21.28	21.53
21	12/06/2023	73.59	39.68	ND*	ND*	ND*	ND*	0.11	ND*	12.74	7.52	15.35	12.65
22	15/06/2023	60.24	26.37	ND*	ND*	ND*	ND*	0.72	ND*	34.24	18.67	38.44	16.36
23	19/06/2023	67.53	31.34	ND*	ND*	ND*	ND*	0.57	ND*	26.68	12.71	19.25	14.30
24	22/06/2023	65.65	34.62	ND*	ND*	ND*	ND*	0.46	ND*	30.45	16.31	26.35	18.69
25	26/06/2023	57.26	29.43	ND*	ND*	ND*	ND*	0.38	ND*	19.26	14.65	24.24	20.65
26	29/06/2023	51.21	19.49	ND*	ND*	ND*	ND*	0.66	ND*	23.45	9.56	17.56	11.75
27	03/07/2023	60.34	33.54	ND*	ND*	ND*	ND*	0.15	ND*	13.64	14.32	23.66	13.57
28	06/07/2023	49.62	28.94	ND*	ND*	ND*	ND*	0.47	ND*	21.28	16.44	30.48	11.88



Authorized Signatory

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

GPCB apprved



29	10/07/2023	56.57	35.90	ND*	ND*	ND*	ND*	0.19	ND*	12.69	6.84	18.35	14.64
30	13/07/2023	70.59	37.13	ND*	ND*	ND*	ND*	0.60	ND*	31.15	12.82	26.30	21.69
31	17/07/2023	63.87	31.30	ND*	ND*	ND*	ND*	0.23	ND*	23.47	8.39	19.27	18.64
32	20/07/2023	53.54	20.60	ND*	ND*	ND*	ND*	0.36	ND*	15.28	10.38	22.59	12.71
33	24/07/2023	57.24	32.32	ND*	ND*	ND*	ND*	0.16	ND*	10.26	7.64	17.54	10.44
34	27/07/2023	54.36	25.25	ND*	ND*	ND*	ND*	0.27	ND*	16.59	11.25	21.64	17.72
35	31/07/2023	50.34	36.19	ND*	ND*	ND*	ND*	0.52	ND*	18.21	13.24	16.68	15.62
36	03/08/2023	65.45	38.44	ND*	ND*	ND*	ND*	0.52	ND*	16.26	15.33	29.93	11.23
37	07/08/2023	46.37	18.63	ND*	ND*	ND*	ND*	0.26	ND*	27.55	12.66	24.58	13.92
38	10/08/2023	64.25	32.39	ND*	ND*	ND*	ND*	0.57	ND*	30.24	8.68	19.29	22.57
39	14/08/2023	60.36	26.23	ND*	ND*	ND*	ND*	0.55	ND*	21.84	10.67	21.17	15.73
40	17/08/2023	55.88	29.36	ND*	ND*	ND*	ND*	0.33	ND*	13.65	6.38	25.26	10.78
41	21/08/2023	45.54	25.20	ND*	ND*	ND*	ND*	0.40	ND*	17.55	16.39	23.32	18.25
42	24/08/2023	61.62	28.85	ND*	ND*	ND*	ND*	0.32	ND*	23.77	9.14	14.23	12.46
43	28/08/2023	47.87	21.62	ND*	ND*	ND*	ND*	0.48	ND*	14.69	7.35	20.28	19.16
44	31/08/2023	66.16	37.55	ND*	ND*	ND*	ND*	0.30	ND*	11.39	14.51	26.52	14.29
45	04/09/2023	50.85	21.54	ND*	ND*	ND*	ND*	0.48	ND*	23.48	11.29	21.22	23.31
46	07/09/2023	54.23	26.77	ND*	ND*	ND*	ND*	0.72	ND*	13.67	8.43	18.45	15.38
47	11/09/2023	47.68	18.56	ND*	ND*	ND*	ND*	0.30	ND*	16.53	12.48	31.29	11.67
48	14/09/2023	58.64	30.03	ND*	ND*	ND*	ND*	0.79	ND*	22.43	15.37	33.49	24.36
49	18/09/2023	79.21	40.90	ND*	ND*	ND*	ND*	0.52	ND*	18.69	13.65	24.24	12.67
50	21/09/2023	62.74	33.81	ND*	ND*	ND*	ND*	0.27	ND*	26.31	9.09	20.46	16.76
51	25/09/2023	56.21	37.55	ND*	ND*	ND*	ND*	0.23	ND*	12.53	6.91	25.33	18.42
52	28/09/2023	73.38	42.53	ND*	ND*	ND*	ND*	0.37	ND*	17.38	14.78	16.77	10.86
F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I I I I I I I I I I I I I I I I I I I	THE RESERVE OF THE PERSON NAMED IN	COLUMN TO SERVICE AND ADDRESS OF THE PARTY O	AND DESCRIPTIONS	175 11 1 1 1 1 1 1 1	VI 1/2 11 1 1 1 1 1 1	101 10 11 11 11	1130 124 11 1 1 1	CONTRACTOR OF THE PERSON NAMED IN COLUMN 1	DESCRIPTION OF THE PROPERTY OF	THE RESIDENCE OF THE PARTY OF T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I I I II II I I I I I I I I I I I I I

Observation

Above given Results are within the norms Specified Limit as per CPCB Notification NoB-

29016/20/90/PCI-Idt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

ND*: Not Detected - Lead as Pb (µg/m³): 0.5

ND*: Not Detected - Carbon Monoxide as CO (mg/m³): 0.01

ND*: Not Detected - Benzene as C_6H_6 (µg/m³): 2

ND*: Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m³): 0.5

ND*: Not Detected - Arsenic as As (ng/m³): 2 ND*: Not Detected - Nickel as Ni (ng/m³): 5



Authorized Signatory

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

GPCB apprved schedule II auditor

● ISO 14001:2004 ● OHSAS 18001:2007 ● ISO 900



TABLE-1.3: AIR QUALITY MONITORING RESULTS AT CENTRAL WATER PUMP HOUSE

SR.	DATE OF	POLLUCOI N POLLUC	ON POLLUCO	ON POLLUCO	LOCATI			L WATE		HOUSE	LUCON POI	CLLUCON PC	POLLUCON P POLLUCON P
NO	SAMPLIN	PM ₁₀	PM _{2.5}	Pb	BaP	As	ucoNipo	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
ON POL ICON POL ON POL	LUCON IG LUCON DELUCON POLLUCON LUCON POLLUCON	µg/m	μg/m	μg/m	ng/m	ng/m	ng/m	mg/m	μg/m	μg/m	µg/m	μg/m ³	μg/m
ON POL	03/04/2023	61.31	26.85	ND*	ND*	ND*	ND*	0.69	ND*	25.32	10.59	25.25	10.72
2	06/04/2023	52.11	29.43	ND*	ND*	ND*	ND*	0.48	ND*	11.78	7.50	20.68	14.72
3	10/04/2023	63.49	32.15	ND*	ND*	ND*	ND*	0.24	ND*	23.46	15.25	26.94	20.64
4	13/04/2023	46.88	22.48	ND*	ND*	ND*	ND*	0.16	ND*	14.76	17.63	29.36	24.15
ICON PO	17/04/2023	70.26	46.55	ND*	ND*	ND*	ND*	0.52	ND*	17.56	14.48	31.20	12.53
6	20/04/2023	55.96	28.30	ND*	ND*	ND*	ND*	0.27	ND*	21.27	12.38	27.76	16.35
7	24/04/2023	45.39	23.66	ND*	ND*	ND*	ND*	0.18	ND*	15.32	8.33	21.52	13.47
8	27/04/2023	40.29	21.70	ND*	ND*	ND*	ND*	0.65	ND*	19.22	11.55	15.46	18.82
9	01/05/2023	66.39	35.66	ND*	ND*	ND*	ND*	0.58	ND*	11.93	6.58	14.64	11.44
10	04/05/2023	46.54	20.23	ND*	ND*	ND*	ND*	0.30	ND*	15.67	8.57	23.31	16.32
11	08/05/2023	50.36	33.26	ND*	ND*	ND*	ND*	0.41	ND*	21.55	12.46	19.52	17.62
12	11/05/2023	60.86	30.24	ND*	ND*	ND*	ND*	0.26	ND*	16.22	10.67	17.45	10.28
13	15/05/2023	55.34	24.25	ND*	ND*	ND*	ND*	0.65	ND*	20.53	17.66	32.45	18.62
14	18/05/2023	65.01	32.61	ND*	ND*	ND*	ND*	0.16	ND*	32.33	13.41	21.82	20.28
15	22/05/2023	73.66	38.36	ND*	ND*	ND*	ND*	0.34	ND*	12.76	15.70	25.88	15.40
16	25/05/2023	67.63	19.94	ND*	ND*	ND*	ND*	0.48	ND*	22.56	9.29	20.69	21.34
17	29/05/2023	43.52	23.43	ND*	ND*	ND*	ND*	0.52	ND*	18.79	11.20	22.58	13.21
18	01/06/2023	48.28	21.25	ND*	ND*	ND*	ND*	0.32	ND*	31.27	7.50	15.27	23.96
19	05/06/2023	68.64	39.28	ND*	ND*	ND*	ND*	0.55	ND*	26.25	12.66	21.69	18.93
20	08/06/2023	47.33	20.36	ND*	ND*	ND*	ND*	0.76	ND*	29.39	16.90	17.69	15.68
21	12/06/2023	64.62	29.22	ND*	ND*	ND*	ND*	0.44	ND*	17.19	6.56	23.25	17.75
22	15/06/2023	56.25	32.44	ND*	ND*	ND*	ND*	0.29	ND*	22.43	20.21	26.54	25.67
23	19/06/2023	76.28	37.50	ND*	ND*	ND*	ND*	0.63	ND*	19.36	9.15	16.23	10.24
24	22/06/2023	70.82	30.25	ND*	ND*	ND*	ND*	0.49	ND*	24.27	11.63	19.34	19.37
25	26/06/2023	52.66	22.67	ND*	ND*	ND*	ND*	0.36	ND*	13.87	15.67	27.55	24.32
26	29/06/2023	57.56	26.29	ND*	ND*	ND*	ND*	0.24	ND*	28.22	13.26	20.26	14.82
27	03/07/2023	50.25	24.22	ND*	ND*	ND*	ND*	0.29	ND*	22.57	10.63	33.46	15.59
28	06/07/2023	55.67	21.75	ND*	ND*	ND*	ND*	0.40	ND*	17.67	7.50	16.58	17.58



Authorized Signatory

Recognised by MoEF, New Delhi Under ● GPCB apprved Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



29	10/07/2023	46.92	24.00	ND*	ND*	ND*	ND*	0.14	ND*	10.37	9.83	21.28	10.19
30	13/07/2023	54.64	26.58	ND*	ND*	ND*	ND*	0.81	ND*	19.67	17.59	29.26	18.30
31	17/07/2023	60.22	19.21	ND*	ND*	ND*	ND*	0.49	ND*	15.69	11.63	20.29	20.40
32	20/07/2023	47.53	17.10	ND*	ND*	ND*	ND*	0.58	ND*	13.46	8.25	15.54	16.27
33	24/07/2023	59.36	27.57	ND*	ND*	ND*	ND*	0.63	ND*	16.92	12.45	27.77	21.45
34	27/07/2023	49.34	15.27	ND*	ND*	ND*	ND*	0.57	ND*	11.27	14.57	18.68	12.37
35	31/07/2023	70.31	30.31	ND*	ND*	ND*	ND*	0.48	ND*	20.21	6.35	14.31	25.61
36	03/08/2023	44.77	29.57	ND*	ND*	ND*	ND*	0.47	ND*	24.56	16.51	22.56	17.24
37	07/08/2023	53.93	24.18	ND*	ND*	ND*	ND*	0.24	ND*	16.98	6.59	18.69	15.65
38	10/08/2023	49.35	21.22	ND*	ND*	ND*	ND*	0.27	ND*	27.76	11.53	15.56	23.98
39	14/08/2023	66.22	33.66	ND*	ND*	ND*	ND*	0.39	ND*	18.69	14.28	26.26	11.99
40	17/08/2023	61.24	35.43	ND*	ND*	ND*	ND*	0.17	ND*	11.29	9.63	21.60	18.67
41	21/08/2023	65.15	38.66	ND*	ND*	ND*	ND*	0.19	ND*	26.94	12.45	31.42	24.36
42	24/08/2023	43.27	20.85	ND*	ND*	ND*	ND*	0.29	ND*	13.46	7.50	17.35	16.25
43	28/08/2023	62.41	34.64	ND*	ND*	ND*	ND*	0.18	ND*	36.58	10.88	24.35	22.77
44	31/08/2023	52.44	25.42	ND*	ND*	ND*	ND*	0.31	ND*	17.25	8.25	16.27	12.95
45	04/09/2023	56.83	33.67	ND*	ND*	ND*	ND*	0.68	ND*	20.64	18.51	23.46	18.62
46	07/09/2023	48.68	23.51	ND*	ND*	ND*	ND*	0.55	ND*	11.43	11.56	25.58	13.30
47	11/09/2023	53.53	27.21	ND*	ND*	ND*	ND*	0.49	ND*	22.61	7.69	22.46	21.44
48	14/09/2023	44.57	20.57	ND*	ND*	ND*	ND*	0.65	ND*	17.61	12.83	28.21	19.45
49	18/09/2023	50.28	25.69	ND*	ND*	ND*	ND*	0.34	ND*	13.45	6.54	19.39	15.30
50	21/09/2023	55.32	22.45	ND*	ND*	ND*	ND*	0.41	ND*	15.63	14.57	27.22	10.27
uc51	25/09/2023	61.79	31.90	ND*	ND*	ND*	ND*	0.54	ND*	32.34	8.41	24.57	12.45
52	28/09/2023	52.13	26.68	ND*	ND*	ND*	ND*	0.69	ND*	12.35	17.55	26.31	14.43
C 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I THE PART OF THE PARTY OF THE PARTY.	1/1 11 1 1 1 1 1 1 1 1		CALL DAY 11 THE T	2021 126 21 1 1 11	COUNTY OF THE PARTY	CONTRACTOR OF THE PARTY OF THE	HE R. STATE AND THE RESERVE	TEST THE DAY OF THE	THE RESERVE AND THE PERSON NAMED IN COLUMN 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 11 1 11 11 11 11 11 11	

Observation

Above given Results are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-Idt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly

or 8 hourly or 1 hourly monitored values

ND*: Not Detected - Lead as Pb (µg/m³): 0.5

ND*: Not Detected - Carbon Monoxide as CO (mg/m³): 0.01

ND*: Not Detected - Benzene as C_6H_6 (µg/m³): 2

ND*: Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m³): 0.5

ND*: Not Detected - Arsenic as As (ng/m³): 2 ND*: Not Detected - Nickel as Ni (ng/m³): 5



Authorized Signatory

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

GPCB apprved schedule II auditor

● ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO 900



AIR QUALITY MONITORING RESULTS AT CONTAINER TERMINAL **TABLE-1.4:**

SR.	DATE OF	POLLUCON POLLUCON POLLUC	ON POLLUCO ON POLLUCO	ON POLLUCO	LOC			TAINER		NAL	LUCON POL DLLUCON P	CLLUCON PC	POLLUCON P POLLUCON P
NO	SAMPLIN	PM ₁₀	PM _{2.5}	Pb	BaP	As	ucd Ni poi	СО	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
ON POL UCON POL ON POL	LUCON IGLLUCON DELUCON POLLUCON LUCON POLLUCON	μg/m	μg/m	μg/m	ng/m	ng/m	ng/m	mg/m	μg/m	μg/m	µg/m	µg/m	μg/m
UCON POL	03/04/2023	56.23	35.33	ND*	ND*	ND*	ND*	0.23	ND*	22.34	8.60	16.58	17.35
2	06/04/2023	48.35	21.28	ND*	ND*	ND*	ND*	0.25	ND*	25.77	14.52	34.25	24.54
3	10/04/2023	69.25	25.63	ND*	ND*	ND*	ND*	0.21	ND*	17.63	6.46	29.53	22.68
4	13/04/2023	63.17	34.41	ND*	ND*	ND*	ND*	0.58	ND*	10.28	9.49	22.12	14.34
UCON PO	17/04/2023	59.48	38.69	ND*	ND*	ND*	ND*	0.56	ND*	23.12	13.59	28.31	23.35
6	20/04/2023	44.72	24.69	ND*	ND*	ND*	ND*	0.39	ND*	15.61	11.43	21.20	20.48
ON POL	24/04/2023	65.63	44.15	ND*	ND*	ND*	ND*	0.33	ND*	13.76	17.59	24.27	10.33
8	27/04/2023	53.74	26.31	ND*	ND*	ND*	ND*	0.68	ND*	11.58	10.25	20.77	15.38
9	01/05/2023	75.72	41.60	ND*	ND*	ND*	ND*	0.82	ND*	25.38	9.56	18.68	10.58
10	04/05/2023	53.68	34.22	ND*	ND*	ND*	ND*	0.40	ND*	12.81	16.21	22.08	19.22
11	08/05/2023	62.65	30.27	ND*	ND*	ND*	ND*	0.32	ND*	30.48	10.27	24.42	21.91
12	11/05/2023	47.29	21.39	ND*	ND*	ND*	ND*	0.39	ND*	21.24	13.29	20.20	18.33
13	15/05/2023	64.32	32.50	ND*	ND*	ND*	ND*	0.73	ND*	27.68	15.35	35.63	22.82
14	18/05/2023	56.63	20.65	ND*	ND*	ND*	ND*	0.18	ND*	23.43	12.18	26.44	13.06
15	22/05/2023	63.16	31.65	ND*	ND*	ND*	ND*	0.72	ND*	15.54	18.45	17.36	16.21
16	25/05/2023	52.64	25.75	ND*	ND*	ND*	ND*	0.80	ND*	17.92	14.59	25.32	12.15
17	29/05/2023	61.66	27.57	ND*	ND*	ND*	ND*	0.33	ND*	28.23	7.61	32.54	23.26
18	01/06/2023	68.51	30.50	ND*	ND*	ND*	ND*	0.40	ND*	34.56	12.93	27.68	12.43
19	05/06/2023	79.13	46.38	ND*	ND*	ND*	ND*	0.31	ND*	37.42	10.26	25.28	16.25
20	08/06/2023	60.33	28.09	ND*	ND*	ND*	ND*	0.19	ND*	21.55	18.28	30.24	11.31
21	12/06/2023	78.47	33.60	ND*	ND*	ND*	ND*	0.60	ND*	23.54	14.32	26.45	22.98
22	15/06/2023	65.32	36.80	ND*	ND*	ND*	ND*	0.88	ND*	32.69	16.50	32.22	20.28
23	19/06/2023	71.62	29.35	ND*	ND*	ND*	ND*	0.53	ND*	14.23	20.41	23.59	23.42
24	22/06/2023	75.43	48.57	ND*	ND*	ND*	ND*	0.54	ND*	20.22	13.91	16.72	25.89
25	26/06/2023	62.62	24.38	ND*	ND*	ND*	ND*	0.22	ND*	16.33	17.16	33.72	14.61
26	29/06/2023	47.52	22.30	ND*	ND*	ND*	ND*	0.17	ND*	25.14	11.50	15.66	18.15
27	03/07/2023	44.36	20.23	ND*	ND*	ND*	ND*	0.53	ND*	25.63	16.59	30.22	17.36
28	06/07/2023	63.48	33.51	ND*	ND*	ND*	ND*	0.26	ND*	29.04	14.51	19.47	20.28



Authorized Signatory

Recognised by MoEF, New Delhi Under ● GPCB apprved Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



CUITTUL	LUCUIT TULLUUM	· ULLUCUI	I I WELLUNG			ULTTULLU				UUUTTUL			
29	10/07/2023	68.63	29.43	ND*	ND*	ND*	ND*	0.46	ND*	19.81	11.64	17.23	13.24
30	13/07/2023	74.67	39.51	ND*	ND*	ND*	ND*	0.77	ND*	28.17	15.32	24.26	24.39
31	17/07/2023	54.62	28.63	ND*	ND*	ND*	ND*	0.54	ND*	18.75	9.52	18.29	16.91
32	20/07/2023	43.82	22.61	ND*	ND*	ND*	ND*	0.66	ND*	21.94	13.65	25.35	18.55
33	24/07/2023	52.46	25.66	ND*	ND*	ND*	ND*	0.13	ND*	13.54	19.32	23.48	12.53
34	27/07/2023	45.62	18.06	ND*	ND*	ND*	ND*	0.17	ND*	20.67	12.08	26.88	10.75
35	31/07/2023	64.36	34.96	ND*	ND*	ND*	ND*	0.78	ND*	15.98	10.23	22.66	22.62
36	03/08/2023	51.52	26.55	ND*	ND*	ND*	ND*	0.68	ND*	36.26	8.45	17.53	21.91
37	07/08/2023	58.49	31.58	ND*	ND*	ND*	ND*	0.14	ND*	19.76	11.20	20.36	19.53
38	10/08/2023	67.43	36.40	ND*	ND*	ND*	ND*	0.50	ND*	22.41	19.51	28.47	14.13
39	14/08/2023	71.83	41.53	ND*	ND*	ND*	ND*	0.42	ND*	25.28	12.87	22.83	20.74
40	17/08/2023	48.81	23.60	ND*	ND*	ND*	ND*	0.69	ND*	29.53	15.31	26.46	15.22
41	21/08/2023	59.59	33.51	ND*	ND*	ND*	ND*	0.13	ND*	12.56	9.44	18.28	13.29
42	24/08/2023	54.68	24.33	ND*	ND*	ND*	ND*	0.37	ND*	15.17	17.28	30.40	10.36
43	28/08/2023	50.31	32.49	ND*	ND*	ND*	ND*	0.41	ND*	27.31	14.16	21.70	16.65
44	31/08/2023	57.55	29.43	ND*	ND*	ND*	ND*	0.34	ND*	21.65	16.45	23.43	11.38
45	04/09/2023	65.62	25.33	ND*	ND*	ND*	ND*	0.80	ND*	27.82	14.52	27.53	26.47
46	07/09/2023	59.16	28.69	ND*	ND*	ND*	ND*	0.94	ND*	17.52	15.38	22.78	17.82
47	11/09/2023	62.34	37.75	ND*	ND*	ND*	ND*	0.60	ND*	13.72	12.35	20.25	15.68
48	14/09/2023	73.61	44.71	ND*	ND*	ND*	ND*	0.50	ND*	19.31	6.50	23.23	18.32
49	18/09/2023	56.16	32.15	ND*	ND*	ND*	ND*	0.21	ND*	31.47	16.21	32.38	21.57
50	21/09/2023	75.67	42.35	ND*	ND*	ND*	ND*	0.31	ND*	20.24	18.43	29.87	23.91
51	25/09/2023	66.78	39.44	ND*	ND*	ND*	ND*	0.25	ND*	26.15	11.67	21.73	19.66
52	28/09/2023	60.39	29.22	ND*	ND*	ND*	ND*	0.39	ND*	14.88	9.50	14.22	22.25

Observation

Above given Results are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-Idt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly

or 8 hourly or 1 hourly monitored values

ND*: Not Detected - Lead as Pb (µg/m³): 0.5

ND*: Not Detected - Carbon Monoxide as CO (mg/m³): 0.01

ND*: Not Detected - Benzene as C_6H_6 (µg/m³): 2

ND*: Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m³): 0.5

ND*: Not Detected - Arsenic as As (ng/m³): 2 ND*: Not Detected - Nickel as Ni (ng/m³): 5



Authorized Signatory

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

GPCB apprved schedule II auditor

● ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO



TABLE-1.5: AIR QUALITY MONITORING RESULTS AT HAZIRA VILLAGE

SR.	DATE OF	POLLUCON POLLUCON POLLUC	ON POLLUCO ON POLLUCO	ON POLLUCO ON POLLUCO CON POLLU	ICON POLL ON POLLUC ICON POLL			IAZIRA V 'E 72° 3		EICON POL ELLUCON POL	DLLUCON FOI DLLUCON F	COLLUCON PO	POLLUCON POLLUCON POLLUCON
NO	SAMPLIN	PM ₁₀	PM _{2.5}	Pb	BaP	Asol	LICON POLLU LICONI POL	СО	C ₆ H ₆	NH ₃	SO ₂	NO _X	O ₃
ON POL UCON POL ON POL	LUCON IGLLUCON DELUCON POLLUCON LUCON POLLUCON	μg/m	μg/m	μg/m	ng/m	ng/m	ng/m	mg/m	μg/m ³	μg/m	µg/m	μg/m	μg/m
ON POL	03/04/2023	73.57	42.56	0.62	ND*	2.25	10.41	0.78	ND*	14.84	18.97	36.31	23.48
2	06/04/2023	67.25	35.62	ND*	ND*	ND*	ND*	0.82	ND*	32.48	15.57	29.94	20.35
3	10/04/2023	78.63	40.32	0.65	ND*	2.46	10.29	0.74	ND*	28.68	9.57	33.29	18.58
4	13/04/2023	58.47	27.68	ND*	ND*	ND*	ND*	0.63	ND*	24.18	21.57	27.37	21.59
ON SOL	17/04/2023	83.48	43.45	0.56	ND*	2.52	10.17	0.46	ND*	31.51	24.53	35.25	29.45
6	20/04/2023	69.36	31.53	ND*	ND*	ND*	ND*	0.87	ND*	29.34	20.20	32.52	16.77
7 POL	24/04/2023	72.68	38.14	0.69	ND*	2.12	10.45	0.36	ND*	21.74	14.64	30.78	27.43
8	27/04/2023	62.12	30.25	ND*	ND*	ND*	ND*	0.76	ND*	13.42	16.72	18.66	24.67
9	01/05/2023	71.86	37.68	0.65	ND*	2.36	10.17	0.66	ND*	18.24	19.31	22.23	19.13
10	04/05/2023	58.13	29.23	ND*	ND*	ND*	ND*	0.55	ND*	23.99	11.67	28.98	24.44
UC11 PO	08/05/2023	73.51	41.29	ND*	ND*	ND*	ND*	0.29	ND*	33.53	23.48	32.87	28.22
12	11/05/2023	55.61	28.23	ND*	ND*	ND*	ND*	0.47	ND*	25.52	17.33	30.24	23.47
13	15/05/2023	74.53	40.28	0.52	ND*	2.06	10.53	0.69	ND*	19.27	22.64	37.57	25.75
14	18/05/2023	70.26	36.55	ND*	ND*	ND*	ND*	0.37	ND*	36.76	14.82	24.54	27.78
15	22/05/2023	76.61	44.24	0.59	ND*	2.16	10.23	0.50	ND*	31.02	24.35	21.40	21.63
16	25/05/2023	82.47	47.31	ND*	ND*	ND*	ND*	0.89	ND*	34.23	12.68	39.41	13.65
17	29/05/2023	66.23	33.84	ND*	ND*	ND*	ND*	0.60	ND*	24.73	20.40	27.45	16.52
18	01/06/2023	75.69	33.42	ND*	ND*	ND*	ND*	0.50	ND*	25.69	16.29	24.64	25.32
19	05/06/2023	94.33	54.37	0.68	ND*	2.42	10.14	0.39	ND*	22.34	23.69	41.63	21.17
20	08/06/2023	81.26	46.46	ND*	ND*	ND*	ND*	0.58	ND*	31.35	20.42	38.62	24.88
21	12/06/2023	85.65	39.00	0.64	ND*	2.12	10.58	0.26	ND*	36.18	11.75	34.21	27.67
22	15/06/2023	72.15	41.34	ND*	ND*	ND*	ND*	0.33	ND*	20.32	13.59	27.83	30.32
23	19/06/2023	80.86	47.12	ND*	ND*	ND*	ND*	0.61	ND*	30.21	17.72	33.41	20.83
24	22/06/2023	86.32	51.32	0.72	ND*	2.32	10.73	0.73	ND*	27.46	21.22	35.51	16.61
25	26/06/2023	79.63	42.51	ND*	ND*	ND*	ND*	0.42	ND*	12.57	19.29	37.56	22.87
26	29/06/2023	71.34	34.61	ND*	ND*	ND*	ND*	0.74	ND*	37.83	14.83	25.12	26.24
27	03/07/2023	65.62	30.23	ND*	ND*	ND*	ND*	0.41	ND*	29.47	15.62	20.43	27.74
28	06/07/2023	68.12	35.47	ND*	ND*	ND*	ND*	0.24	ND*	33.62	21.22	36.23	23.15



Authorized Signatory

Recognised by MoEF, New Delhi Under ● GPCB apprved Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



29	10/07/2023	72.62	38.60	ND*	ND*	ND*	ND*	0.62	ND*	14.64	14.72	26.58	17.67
30	13/07/2023	80.28	44.21	0.65	ND*	2.21	10.10	0.86	ND*	34.88	20.24	33.29	14.27
31	17/07/2023	67.57	27.34	ND*	ND*	ND*	ND*	0.73	ND*	26.21	23.40	38.25	26.43
32	20/07/2023	50.75	25.59	ND*	ND*	ND*	ND*	0.94	ND*	31.49	19.47	29.43	24.27
33	24/07/2023	64.53	34.68	ND*	ND*	ND*	ND*	0.61	ND*	23.34	13.48	32.50	18.80
34	27/07/2023	60.52	31.34	ND*	ND*	ND*	ND*	0.30	ND*	25.58	18.31	35.65	25.33
35	31/07/2023	77.54	43.59	0.51	ND*	2.42	10.51	0.42	ND*	32.56	16.34	30.39	20.60
36	03/08/2023	68.97	41.47	0.56	ND*	2.12	10.22	0.64	ND*	21.77	20.53	32.66	18.74
37	07/08/2023	63.59	28.21	ND*	ND*	ND*	ND*	0.54	ND*	32.45	15.55	26.35	22.32
38	10/08/2023	73.77	39.49	ND*	ND*	ND*	10.51	0.45	ND*	37.81	24.36	30.44	16.40
39	14/08/2023	78.65	45.27	0.76	ND*	2.18	10.46	0.44	ND*	30.56	18.98	37.65	24.48
40	17/08/2023	66.33	38.94	ND*	ND*	ND*	ND*	0.56	ND*	33.47	21.32	29.32	27.52
41	21/08/2023	71.16	43.45	0.56	ND*	2.06	10.34	0.73	ND*	23.47	14.31	25.35	21.57
42	24/08/2023	67.31	33.46	ND*	ND*	ND*	ND*	0.38	ND*	20.25	22.35	21.29	19.66
43	28/08/2023	58.23	27.22	ND*	ND*	ND*	ND*	0.62	ND*	40.36	12.41	28.82	26.33
44	31/08/2023	70.24	42.68	ND*	ND*	ND*	ND*	0.23	ND*	14.25	19.39	20.54	23.49
45	04/09/2023	77.32	40.38	ND*	ND*	ND*	ND*	0.56	ND*	34.26	24.51	31.07	21.23
46	07/09/2023	62.69	31.57	ND*	ND*	ND*	ND*	0.46	ND*	23.37	19.63	33.29	24.55
47	11/09/2023	58.73	34.87	ND*	ND*	ND*	ND*	0.15	ND*	35.35	17.34	28.41	13.67
48	14/09/2023	79.34	42.25	ND*	ND*	ND*	ND*	0.53	ND*	28.42	21.34	35.65	26.19
49	18/09/2023	64.25	29.66	0.63	ND*	2.34	10.40	0.63	ND*	37.36	18.35	27.67	23.62
50	21/09/2023	70.27	37.91	ND*	ND*	ND*	ND*	0.38	ND*	32.24	11.51	34.51	20.66
C51 P	25/09/2023	76.86	45.17	0.58	ND*	2.18	10.22	0.82	ND*	18.18	23.48	18.32	22.57
52	28/09/2023	63.97	33.90	ND*	ND*	ND*	ND*	0.18	ND*	27.56	20.40	29.54	19.83

Observation

Above given Results are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-Idt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly

or 8 hourly or 1 hourly monitored values

ND*: Not Detected - Lead as Pb (µg/m³): 0.5

ND*: Not Detected - Carbon Monoxide as CO (mg/m³): 0.01

ND*: Not Detected - Benzene as C_6H_6 (µg/m³): 2

ND*: Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m³): 0.5

ND*: Not Detected - Arsenic as As (ng/m³): 2 ND*: Not Detected - Nickel as Ni (ng/m³): 5



Authorized Signatory

 FSSAI Approved Lab
 Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

GPCB apprved



TABLE-1.6: AIR QUALITY MONITORING RESULTS AT SUVALI VILLAGE

SR.	DATE OF	POLLUCON POLLUCON	ON POLLUCO ON POLLUC	ON POLLUCO ON POLLUCO	CON POLLUC ON POLLUC CON POLL			UVALI V E 72° 3		LLUCON POL LLUCON PO	DLLUCON FOI DLLUCON F	OLLUCON COLLUCON	POLLUCON POLLUCON P
NO	SAMPLIN	PM ₁₀	PM _{2.5}	Pb	BaP	As	ucdNipo	СО	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
ON POL UCON POL ON POL	LUCON IG LUCON LUCON POLLUCON	μg/m	μg/m	μg/m 3	ng/m	ng/m	ng/m	mg/m	μg/m	μg/m	µg/m	µg/m	μg/m
ON POL	03/04/2023	40.37	21.13	ND*	ND*	ND*	ND*	0.19	ND*	13.83	14.28	22.39	21.65
2	06/04/2023	45.98	26.94	ND*	ND*	ND*	ND*	0.34	ND*	18.49	9.50	25.64	16.52
3	10/04/2023	58.34	28.62	ND*	ND*	ND*	ND*	0.11	ND*	24.33	13.49	20.26	18.95
4	13/04/2023	51.63	30.36	ND*	ND*	ND*	ND*	0.41	ND*	29.44	7.54	16.53	15.67
ON SOL	17/04/2023	65.21	36.89	ND*	ND*	ND*	ND*	0.13	ND*	12.69	17.60	23.43	21.00
6	20/04/2023	47.72	34.27	ND*	ND*	ND*	ND*	0.32	ND*	21.41	12.61	26.24	12.42
7 POL	24/04/2023	53.23	31.16	ND*	ND*	ND*	ND*	0.29	ND*	14.54	15.62	21.59	25.82
8	27/04/2023	46.44	24.51	ND*	ND*	ND*	ND*	0.14	ND*	10.26	10.25	18.64	14.13
9	01/05/2023	60.26	31.30	ND*	ND*	ND*	ND*	0.44	ND*	15.68	10.27	25.64	13.55
10	04/05/2023	49.68	22.47	ND*	ND*	ND*	ND*	0.17	ND*	17.68	13.58	17.55	21.78
ON POL	08/05/2023	44.69	27.26	ND*	ND*	ND*	ND*	0.23	ND*	23.48	16.23	21.58	14.53
12	11/05/2023	50.27	25.26	ND*	ND*	ND*	ND*	0.31	ND*	13.87	9.26	26.28	20.65
13	15/05/2023	43.27	21.28	ND*	ND*	ND*	ND*	0.42	ND*	25.35	12.66	22.26	17.64
14	18/05/2023	51.23	23.91	ND*	ND*	ND*	ND*	0.14	ND*	19.39	7.62	16.26	11.29
15	22/05/2023	61.26	35.86	ND*	ND*	ND*	ND*	0.46	ND*	21.49	19.21	28.64	19.50
16	25/05/2023	54.36	32.50	ND*	ND*	ND*	ND*	0.53	ND*	14.23	8.25	14.59	10.80
17	29/05/2023	48.62	29.44	ND*	ND*	ND*	ND*	0.21	ND*	12.96	6.36	24.27	18.66
18	01/06/2023	52.47	28.74	ND*	ND*	ND*	ND*	0.23	ND*	21.11	11.31	21.20	11.44
19	05/06/2023	62.85	35.09	ND*	ND*	ND*	ND*	0.25	ND*	15.33	8.10	26.16	13.23
20	08/06/2023	42.31	19.23	ND*	ND*	ND*	ND*	0.47	ND*	17.69	12.67	14.22	10.35
21	12/06/2023	58.32	26.84	ND*	ND*	ND*	ND*	0.21	ND*	20.27	15.44	18.57	14.27
22	15/06/2023	69.82	22.41	ND*	ND*	ND*	ND*	0.56	ND*	28.61	10.22	24.95	18.23
23	19/06/2023	53.49	33.46	ND*	ND*	ND*	ND*	0.45	ND*	11.29	6.77	20.71	16.57
24	22/06/2023	60.15	24.44	ND*	ND*	ND*	ND*	0.15	ND*	18.27	9.48	17.78	12.57
25	26/06/2023	68.07	27.65	ND*	ND*	ND*	ND*	0.34	ND*	24.51	13.46	19.52	17.26
26	29/06/2023	43.42	20.40	ND*	ND*	ND*	ND*	0.30	ND*	14.22	7.21	16.27	20.15
27	03/07/2023	56.28	27.53	ND*	ND*	ND*	ND*	0.31	ND*	19.02	12.68	19.62	21.24
28	06/07/2023	61.86	25.42	ND*	ND*	ND*	ND*	0.34	ND*	24.84	9.66	21.58	16.18



Authorized Signatory

Recognised by MoEF, New Delhi Under ● GPCB apprved Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



-UITTUL													Annual Indiana and a second
29	10/07/2023	51.24	31.67	ND*	ND*	ND*	ND*	0.56	ND*	16.55	7.69	23.43	12.25
30	13/07/2023	68.39	33.62	ND*	ND*	ND*	ND*	0.18	ND*	22.75	10.24	17.57	22.44
31	17/07/2023	55.74	24.93	ND*	ND*	ND*	ND*	0.39	ND*	26.59	16.78	29.56	11.54
32	20/07/2023	41.35	14.53	ND*	ND*	ND*	ND*	0.32	ND*	18.14	13.51	24.29	20.47
33	24/07/2023	46.83	19.46	ND*	ND*	ND*	ND*	0.25	ND*	11.11	15.82	18.29	13.37
34	27/07/2023	40.34	15.25	ND*	ND*	ND*	ND*	0.22	ND*	13.44	6.62	15.63	15.27
35	31/07/2023	57.76	26.52	ND*	ND*	ND*	ND*	0.44	ND*	29.72	14.20	20.21	17.25
36	03/08/2023	58.33	34.13	ND*	ND*	ND*	ND*	0.16	ND*	15.68	13.43	25.20	10.19
37	07/08/2023	50.66	21.83	ND*	ND*	ND*	ND*	0.11	ND*	11.27	16.38	29.28	18.34
38	10/08/2023	56.28	26.36	ND*	ND*	ND*	ND*	0.21	ND*	14.58	9.55	20.56	13.51
39	14/08/2023	69.26	36.93	ND*	ND*	ND*	ND*	0.49	ND*	17.57	6.53	35.41	17.62
40	17/08/2023	53.42	31.66	ND*	ND*	ND*	ND*	0.15	ND*	23.43	12.40	15.64	20.25
41	21/08/2023	57.96	28.18	ND*	ND*	ND*	ND*	0.25	ND*	13.65	7.38	21.27	11.79
42	24/08/2023	49.68	17.12	ND*	ND*	ND*	ND*	0.36	ND*	16.08	14.32	19.76	14.32
43	28/08/2023	55.93	24.52	ND*	ND*	ND*	ND*	0.46	ND*	22.71	8.55	26.93	21.33
44	31/08/2023	51.49	22.38	ND*	ND*	ND*	ND*	0.22	ND*	28.06	11.62	18.23	19.44
45	04/09/2023	62.84	29.47	ND*	ND*	ND*	ND*	0.44	ND*	16.77	15.45	24.34	13.40
46	07/09/2023	42.55	20.32	ND*	ND*	ND*	ND*	0.42	ND*	19.63	17.73	27.69	22.37
47	11/09/2023	65.25	32.99	ND*	ND*	ND*	ND*	0.19	ND*	10.28	14.27	19.44	25.18
48	14/09/2023	48.75	18.49	ND*	ND*	ND*	ND*	0.32	ND*	13.51	16.56	25.61	21.66
49	18/09/2023	60.76	35.64	ND*	ND*	ND*	ND*	0.24	ND*	11.54	8.45	18.65	17.58
50	21/09/2023	46.35	30.68	ND*	ND*	ND*	ND*	0.13	ND*	23.68	6.88	14.63	14.40
51	25/09/2023	52.53	25.58	ND*	ND*	ND*	ND*	0.58	ND*	15.87	13.47	20.24	16.36
52	28/09/2023	43.59	22.36	ND*	ND*	ND*	ND*	0.36	ND*	25.35	7.50	23.55	12.31
C 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I I II C IN I IV II I I I I I I I I I	1/1 11 1 1 1 1 1 1 1 1	U DATE OF THE RESERVE	CALL DAY 11 THE T	3131 121 11 11 11	COUNTY OF THE PARTY	CONTRACTOR OF THE PARTY OF THE	HE R. STATE AND THE RESERVE	TEST THE DAY OF THE	- II	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AT THE RESIDENCE TO SECURITION OF THE PERSON

Observation

Above given Results are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-Idt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly

or 8 hourly or 1 hourly monitored values

ND*: Not Detected - Lead as Pb (µg/m³): 0.5

ND*: Not Detected - Carbon Monoxide as CO (mg/m³): 0.01

ND*: Not Detected - Benzene as C_6H_6 (µg/m³): 2

ND*: Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m³): 0.5

ND*: Not Detected - Arsenic as As (ng/m³): 2 ND*: Not Detected - Nickel as Ni (ng/m³): 5



Authorized Signatory

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

GPCB apprved schedule II auditor

● ISO 14001:2004 ● OHSAS 18001:2003

007 • 180 9001 : 200



NATER QUALITY MONITORING (APRIL - 2023 TO SEPTEMBER - 2023)

TABLE-1.7A: NATER BORE WELL QUALITY RESULTS

CON POL	HUGON POLITICON POLI	DEFEICANT	ICH LICON POLLUCON	ON POLITICON POLIC	ROUND WAT	ER BORE WEI	TOLLUCON POLL	HICON POLITICO
SR. NO.	TEST PARAMETERS	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
N POL	UCON POLLUCON POL	LLUCON I	20/04/23	25/05/23	22/06/23	24/07/23	17/08/23	18/09/23
CON PO	Colour POLLUCON PO	Hazen	OLLUCO3 POLLUC	ON POLL 4: ON POL	LUCON P3LLUCON	POLLUCO4 POLLUC	ON POLISCON PO	LUCON 13 LLUCO
2	Odour	ILLICON I	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
N3OL	Taste OLLUCON POL	LUCON PO	Agreeable	Agreeable	Agreeable	Agreeable 0	Agreeable	Agreeable
4	Turbidity	NTU	0.18	0.23	0.31	0.25	0.33	0.27
CO51 PC	pH Value	LLUCON I	7.72	7.46	7.59	7.73	7.95	7.75
6 PC	Total Hardness as CaCO ₃	mg/L	504	472	498	468	ON PO 512ON PO	528
co 7 1 Pc	Iron as Fe Lucon po	mg/L	Not Detected	Not Detected	0.071	0.096	0.084	0.120
8	Chloride as Cl	mg/L	165	149	126	118	193	184
N 9 OL	Residual Free Chlorine	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
10	Fluoride as F	mg/L	0.36	0.32	0.28	0.32	0.30	0.25
N11OL	Total Dissolved Solids	mg/L	1236	1156	1037	1023	1166	1264
12	Calcium as Ca	mg/L	Luco 114 (co)	POLL 112 POLL	CON P.131 N P.	LLUCO 124 LUCO	128	146
13	Magnesium as Mg	mg/L	52.56	46.08	40.56	37.44	46.08	38.64
14 PC	Copper as Cu CON PO	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
15	Manganese as Mn	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
N160L	Sulphate as SO ₄	mg/L	57.30 LCON	42.98	59.37	63.64	68.10	CON 71.32 ON
17	Nitrate Nitrogen as NO ₃	mg/L	4.98	5.04	4.69	5.12	4.90	3.48
18	Phenolic compounds as C ₆ H ₅ OH	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
19	Mercury as Hg N	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
20	Cadmium as Cd	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
21	Selenium as Se	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
22	Arsenic as As	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
23	Cyanide as CN	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
24	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
25	Zinc as Zn	mg/L	0.27	0.19	0.30	Not Detected	0.12	0.18
26	Anionic Detergents as MBAS	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
27	Chromiumas Cr ⁺⁶	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
28	Mineral Oil	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
29	Alkalinity	mg/L	276	N PO 249 N POL	LICON 230 LICON	246	on ro 236on ro	LucoN260Luc
30	Aluminum as Al	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
310	Boron as B CON POL	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32	Pesticides	LUCON PO	POLLUCON POLLUCON	ON POLLUCON POL	LUCON POLLUCON PO	POLLUCON POLLUCO	ON POLLUCON	LUCON POLLUCON
32.1	Alachor	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.2	Atrazine	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Authorized Signatory

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

GPCB apprved



ICON PO	LLUCON POLLUCON PC	LLUCON I	OLLUCON POLLUC	ON POLLUCON PC	ROUND WAT	ER BORE WEL	N POLLUCON POL	LUCON POLLUCON
SR. NO.	TEST PARAMETERS	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
ON POLI	UCON POLLUCON POLL	UCON PO	20/04/23	25/05/23	22/06/23	24/07/23	17/08/23	18/09/23
32.3	Aldrin/Dieldrine	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.4	Alpha HCH	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.5	Beta HCH	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.6	Butachlor	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.7	Chlorpyriphos	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.8	Delta HCH	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.9	2,4- Dichlorophrnoxy acetic acid	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.10	DDT (o,p&p,p- Isomers of DDT, DDE & DDD	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.11	Endosulfan (alpha, beta, and sulphate)	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.12	Ethion CON POLI	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.13	Gamma – HCH (Lindane)	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.14	Isoproturon	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.15	Malathion LUCON PC	⊥µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.16	Methyl Parathion	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.17	Monocrotophos POLL	∟µg/l™	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.18	Phorate	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
33	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
34	E-Coli	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent

From the above results it is concluded that there is No Significant Changes in the Quality of Ground **Observation**



Authorized Signatory

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



TABLE-1.7B: NATER OPEN WELL QUALITY RESULTS

ON POL	LUCON POLLUCON POLL	JCON PO	LUCON POLLUCON	POLLUCON POL	ROUND WAT	ER OPEN WEI	LPOLLUCON POLL	LICON POLLUCON I
SR. NO.	TEST PARAMETERS	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
CON PO	LLUCON POLLUCON PO	ELUCON	20/04/23	25/05/23	22/06/23	24/07/23	17/08/23	18/09/23
CON POL	Colour	Hazen	OLLICON SOLLUCON	POLLUCZN POLLUC	HICON POLICION PO	POLITICO POLITICO	ON POLLUGON POLL	LICON POLITICON
DN 2'OL	Odour OLLUCON POLI	LICON PO	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	ICON PO	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
CC41 PC	Turbidity LUCON PO	NTU	OLLU 0.18	ON PO 0.21 N POL	ucon 0.16 ucon	0.21	ON POO.30 N PO	0.26
5 P	pH Value	LILLICON I	7.64	7.43	7.29	7.51	7.81	7.59
ON FOL	Total Hardness as CaCO₃	mg/L	410	382	356	340	396 POLL	428
N 7OL	Iron as Fe	mg/L	0.086	0.071	0.094	0.087	0.094	0.084
8	Chloride as Cl	mg/L	131	119	123	107	150	139 ON
CON PO	Residual Free Chlorine	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
10	Fluoride as F	mg/L	0.46	0.39	0.27	0.31	0.46	0.36
CON POL	Total Dissolved Solids	mg/L	1132	1045	992	978	1062	1173
12	Calcium as Ca	mg/L	78	68.8	71.6	86.4	92	98.8
13	Magnesium as Mg	mg/L	51.60	50.40	42.48	29.76	39.84	43.44
14	Copper as Cu	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
15	Manganese as Mn	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
16	Sulphate as SO ₄	mg/L	53.69	42.68	38.52	51.36	63.20	57.62
17	Nitrate Nitrogen as NO ₃	mg/L	4.73	3.51	3.12	2.68	2.94	3.18
18	Phenolic compounds as C ₆ H ₅ OH	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
19	Mercury as Hg	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
20	Cadmium as Cd POLI	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
21	Selenium as Se	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
C22 P	Arsenic as As	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
23	Cyanide as CN	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
24	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
25	Zinc as Zn	mg/L	0.23	0.20	0.31	0.27	0.21	0.29
26	Anionic Detergents as MBAS	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
27	Chromiumas Cr ⁺⁶	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
28	Mineral Oil	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
29	Alkalinity	mg/L	305	316	297	291	210	256
30	Aluminum as Al	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
31	Boron as B	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32 PC	LLUCON POLLUCON PO	DLLUCON	POLLUCON POLLUC	UNITED	TOLLUCON	POLLUCON POLLUC	ON POLLUCON PO	LLUCON POLLUCON
32.1	Alachor	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.2	Atrazine MCON POLI	□µg/l□	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.3	Aldrin/Dieldrine	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.4	Alpha HCH LUCON PO	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Authorized Signatory

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

GPCB apprved



ICON PO	LLUCON POLLUCON PC	LLUCON	OLLUCON POLLUC	ON POLLUCON PC	ROUND WAT	ER OPEN WEL	ON POLLUCON POL	LUCON POLLUCON
SR. NO.	TEST PARAMETERS	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
ON POLI	UCON POLLUCON POLL	UCON PO	20/04/23	25/05/23	22/06/23	24/07/23	17/08/23	18/09/23
32.5	Beta HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.6	Butachlor	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.7	Chlorpyriphos	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.8	Delta HCH	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.9	2,4- Dichlorophrnoxy acetic acid	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.10	DDT (o,p&p,p- Isomers of DDT, DDE & DDD	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.11	Endosulfan (alpha, beta, and sulphate)	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.12	Ethion	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.13	Gamma – HCH (Lindane)	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.14	Isoproturon	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.15	Malathion UCON POLL	u⊂μg/l™	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.16	Methyl Parathion	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.17	Monocrotophos	⊥µg/lN	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.18	Phorate	μg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
33	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
34	E-Coli POLLUCON POL	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent

Observation From the above results it is concluded that there is No Significant Changes in the Quality of Ground



Authorized Signatory

Recognised by MoEF, New Delhi Under

• GPCB apprved
Sec. 12 of Environmental (Protection) Act-1986

schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



WATER QUALITY MONITORING (APRIL - 2023 TO SEPTEMBER - 2023)

WATER (POND) QUALITY RESULTS

SR	OLLUCON POLLUCON POLLUCON LUCON POLLUCON POLLUCON	N POLLUCO POLLUCON	ON POLLUCON POLL POLLUCON POLL POLLUCON POLL	AT MORA V	/ILLAGE (SU	RFACE WATE	R – POND)	CON POLLUCON P CON POLLUCON P
ONPO	PARAMETERS	UNIT	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
0.	LUCON POLLUCON POLLUCON OLLUCON POLLUCON POLLUCON	POLLUCON N POLLUC	20/04/23	25/05/23	22/06/23	24/07/23	17/08/23	18/09/23
UCIN	Odour	N POLLUCO	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Haze n	POLLUA ON POL	LUCON POLLUCO	POL LUCON POL	LUCON POLLUCON	POLLUCON POLL	ON POLLUCON ON POLACON P
ON3PO	Taste OLLUCON POLLUCON	POLLUCON N POLLUC	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	pH Value	POLLUCON N POLLUC	8.15	7.86	7.51	7.68	8.01	7.94
UC5N	Turbidity	NTU	0.23	0.17	0.21	0.17	0.25	0.18
6	Total Dissolved Solids	mg/L	659	569	674	579	601	564
ONZPO UCON	Total Hardness as CaCO ₃	mg/L	237	218	241	236	249	230
8	Chloride as Cl	mg/L	72.00	63.98	75.97	81.97	99.90	83.97
9	Fluoride as F	mg/L	0.43	0.35	0.49	0.43	0.53	0.39
10	Iron as Fe	mg/L	Not Detected	Not Detected	0.065	0.073	0.094	0.081
ON POUC <mark>DI</mark> N	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
12	E-Coli	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent

Observation From the above results it is concluded that there is No Significant Changes in the Quality of Surface



Authorized Signatory

Recognised by MoEF, New Delhi Under

• GPCB apprved
Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



R QUALITY MONITORING (APRIL - 2023 TO SEPTEMBER - 2023)

SEA WATER QUALITY ANALYSIS RESULTS OF CB2 SOUTH END TOWARDS LANDSIDE **TABLE-1.9:** FROM THE SEA BASIN

S R.	TEST	UN			CB2 SC				LANDSI E 72°37			BASIN		_
N	PARAMETERS	IT	20/0	4/23	25/0	5/23		6/23	24/0		17/0	8/23	18/0	9/23
Ο.			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Botton
1	pН		8.31	8.25	8.25	8.17	8.37	8.31	8.25	8.12	8.19	8.03	8.23	8.19
2	Temperature	°C	30.2	30.1	31.4	31.2	31.6	31.4	31.9	31.6	30.6	30.5	30.7	30.6
3	Total Suspended Solids	mg /L	186	175	153	139	193	175	213	195	234	228	256	239
4	BOD (3 Days @ 27 °C)	mg /L	5.32	4.76	5.68	5.20	4.30	3.92	3.60	3.20	3.10	2.84	4.00	3.62
5	Dissolved Oxygen	mg /L	5.90	5.75	5.80	5.70	5.90	5.75	5.85	5.70	5.95	5.90	6.00	5.80
6	Salinity	ppt	33.90	33.84	34.26	34.75	33.29	33.56	33.68	33.96	32.56	32.78	33.92	34.46
7	Oil & Grease	mg /L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO ₃	μm ol/L	5.91	5.73	4.96	4.75	5.89	5.70	5.18	4.83	3.93	3.48	5.84	5.70
9	Nitrite as NO ₂	μm ol/L	0.67	0.54	0.52	0.41	0.73	0.65	0.56	0.42	0.37	0.29	0.43	0.36
10	Ammonical Nitrogen as NH ₃	μm ol/L	2.85	2.79	3.17	2.96	2.96	2.80	3.78	3.25	3.68	3.32	4.02	3.35
11	Phosphates as PO ₄	μm ol/L	2.91	2.83	2.86	2.43	2.81	2.75	3.12	2.98	2.81	2.76	2.96	2.83
12	Total Nitrogen	μm ol/L	10.12	9.32	8.92	8.39	9.73	9.32	9.84	8.72	8.12	7.58	10.39	9.64
13	Petroleum Hydrocarbon	μg/ L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg /L	35178	35018	35870	35914	34572	34803	34872	35146	33834	34128	35098	35692
15	COD	mg /L	18.20	16.00	24.00	19.00	18.20	16.34	15.74	13.40	12.96	11.30	16.38	14.62
Α	Phytoplankton	1			1	1					ı	1		1
16 .1	Chlorophyll	mg /m³	2.85	2.67	2.91	2.72	2.80	2.56	2.53	2.32	2.43	2.21	2.75	2.48
16 .2	Phaeophytin	mg /m³	0.54	1.03	0.79	0.68	0.45	0.39	0.72	0.44	0.34	0.36	0.13	0.90
16 .3	Cell Count	No x 1 0 ³ / L	358	342	382	371	429	413	396	382	371	358	402	396
16 .4	Name of Group Number and name of group species of each group		Navicula sp. Pediastr um sp. Ulothrix sp. Synedra sp. Thallasio sira sp.	Nitzschia sp. Closteriu m sp. Pleurosig ma sp. Rhizosol enia sp. Guinardi a sp.	Pediastr um sp. Ulothrix sp. Synedra sp. Thallasio sira sp. Closteriu m sp. Pleurosig	Navicula sp. Nitzschia sp. Guinardi as sp. Rhizosol enia sp. Synedra sp.	Pediastru m sp. Ulothrix sp. Thallasiosi ra sp. Coscinodi scus sp.	Rhizosol enia sp. Navicula sp. Cymbella sp. Fragillari a sp. Synedra sp. Biddulphi	Nitzschia sp. Leptocylin drus Ulothrix sp. Melosira sp. Thallasiosi ra sp.	Synedra sp. Navicula sp. Pleurosig ma sp. Biddulph ia sp.	Coscinodi scus sp. Biddulphi a sp. Cyclotella sp Thallasiosi ra sp. Gyro sigma sp.	Synedra sp. Nitzschia sp. Fragillari a sp. Skeleton ema sp. Ulothrix sp.	Melosira sp. Closteri um sp. Oscillat oria sp. Pediastr um sp. Nitzschi a sp.	Pleurosie ma sp. Navicula sp. Thallasie sira sp. Fragillar a sp. Cymbelli sp.



Authorized Signatory

Recognised by MoEF, New Delhi Under

• GPCB apprved
Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



SR	TEST			СВ	2 SOU		_		LANDS E 72°3			EA BAS	SIN	
NO	PARAMETERS	UNIT	20/04/	23	25/0	5/23	22/0	6/23	24/0	7/23	17/0	8/23	18/0	9/23
•				otto m	Surfac e	Botto m	Surfa ce	Botto m	Surfac e	Botto m	Surfa ce	Botto m	Surfac e	Botto m
В	Zooplanktons	•				•		•	•	•				
17. 1	Abundance (Population)	Nox10 ³ /100 m ³	31		3	15	2	16	3	6	28		3	7
17. 2	Name of Group Number and name of group species of each group		Copepods Polychaetes Gastropods Foraminiferans Gastropods Amphipods		Bivalves Bivalves Polychaetes Polychaetes Amphipods Ostracods Gastropods Gastropods		Polychaetes Gastropods Ostracods Mysids		Polych Gastro Mys Cope Amph	opods sids pods				
17. 3	Total Biomass	ml/100 m ³	2.90	2.90 3.45		2.	50	3.	55	2.70		3.4	40	
С	Microbiological Param	eters												
18. 1	Total Bacterial Count	CFU/ml	2350		25	80	21	.80	22	:60	26	20	20	40
18. 2	Total Coliform	/ml	Present		Pre	sent	Pre	sent	Pre	sent	Pres	sent	Pres	sent
18. 3	E.coli	/ml	Absent		Abs	sent	Abs	sent	Abs	sent	Abs	ent	Abs	ent
18. 4	Enterococcus species	/ml	Present		Pre	sent	Pre	sent	Pre	sent	Pres	sent	Pres	sent
18. 5	Salmonella species	/ml	Absent		Absent		Abs	sent	Abs	sent	Abs	ent	Abs	ent
18. 6	Shigella species	/ml	Absent	Absent Absent		sent	Absent		Absent		Abs	ent	Abs	ent
18. 7	Vibrio species	/ml	Absent		Abs	sent	Absent		Absent		Absent		Abs	ent

Observation From the above results it is concluded that there is No Significant Changes in the Quality of Sea



Authorized Signatory

Recognised by MoEF, New Delhi Under ● GPCB apprved Sec. 12 of Environmental (Protection) Act-1986 Schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



SEA WATER QUALITY ANALYSIS RESULTS OF MP1 WEST END TOWARDS CHANNEL FROM THE SEA BASIN

S R	TEST				MP1 V	VEST EI	ND TOV N 21° 5					BASIN		
N	PARAMETER	UNI	20/0	4/23	25/0	5/23		6/23	ı	7/23		8/23	18/0	9/23
0	S		Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pН		8.37	8.30	8.27	8.24	8.36	8.31	8.29	8.24	8.23	8.16	8.29	8.25
2	Temperature	°C	30.3	30.1	31.5	31.3	31.7	31.6	31.8	31.6	30.7	30.6	30.8	30.6
3	Total Suspended Solids	mg/L	194	179	189	165	193	178	235	220	248	231	275	259
4	BOD (3 Days @ 27 °C)	mg/L	5.30	4.50	5.70	5.20	4.68	4.30	3.90	3.74	3.56	3.12	4.26	3.64
5	Dissolved Oxygen	mg/L	5.90	5.80	5.95	5.85	5.90	5.70	5.95	5.80	6.00	5.95	5.90	5.80
6	Salinity	ppt	33.84	33.62	34.18	34.56	33.58	33.92	33.76	34.18	32.46	32.64	33.70	34.28
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO₃	µmol /L	5.84	5.61	4.87	4.73	6.18	5.84	4.91	4.79	3.76	3.62	5.74	5.68
9	Nitrite as NO ₂	µmol /L	0.81	0.73	0.74	0.63	0.82	0.71	0.68	0.52	0.53	0.50	0.39	0.32
1 0	Ammonical Nitrogen as NH ₃	μmol /L	2.75	2.59	2.94	2.80	2.79	2.63	3.32	3.14	3.48	3.29	3.85	3.70
1 1	Phosphates as PO ₄	µmol /L	2.26	2.06	2.39	2.27	2.68	2.51	2.97	2.85	2.75	2.61	2.83	2.68
1 2	Total Nitrogen	µmol /L	9.87	9.35	8.68	8.29	9.92	9.35	8.98	8.69	7.98	7.52	10.38	10.24
1 3	Petroleum Hydrocarbon	μg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
1 4	Total Dissolved Solids	mg/L	35120	34896	35374	35682	34792	35178	34962	35346	33742	33964	34892	3562 8
1 5	COD	mg/L	20.90	18.40	23.00	19.00	18.60	16.32	14.96	15.20	12.06	11.80	15.94	13.62
Α	Phytoplankton	1	1	1	1	T	1	1	1	1	1		1	
1 6. 1	Chlorophyll	mg/ m³	3.04	2.58	2.96	2.85	2.69	2.40	2.94	2.67	2.32	2.25	2.62	2.50
1 6. 2	Phaeophytin	mg/ m³	0.36	0.42	0.44	0.15	0.26	0.44	0.18	0.28	0.59	1.44	1.03	0.74
1 6. 3	Cell Count	No x 1 0 ³ /L	396	358	405	380	396	380	420	416	384	368	421	408
1 6. 4	Name of Group Number and name of group species of each group		Melosira sp. Leptocyli ndrus Scenede smus sp. Gyrosigm a sp. Ulothrix sp.	Navicula sp. Nitzschia sp. Rhizosole nia sp. Melosira sp. Fragillari a sp.	Melosira sp. Leptocyli ndrus Scenedes mus sp. Gyro sigma sp. Cyclotell a sp.	Navicula sp. Nitzschia sp. Rhizosole nia sp. Ulothrix sp. Closteriu m sp. Synedra	Melosira sp. Leptocyli ndrus Scenedes mus sp. Skeleton ema sp. Cymbella sp. Rhizosole nia sp.	Navicula sp. Synedra sp. Ulothrix sp. Thallasio nema sp. Gyrosigm a sp. Nitzschia	Melosira sp. Coscinodi scus sp. Ulothrix sp. Leptocyli ndrus Thallasio nema sp.	Synedra sp. Ulothrix sp. Gyro sigma sp. Cymbella sp. Fragillari a sp.	Melosira sp. Melosira sp. Melosira sp. Synedra sp. Leptocyli ndrus	Fragillari a sp. Thallasio nema sp. Pleurosig ma sp. Nitzschia sp.	Scenedes mus sp. Ankistrod esmus sp. Gyro sigma sp. Melosira sp. Leptocyli ndrus	Navicula sp. Cymbella sp. Thallasio sira sp. Ulothrix sp.

-0-D

Authorized Signatory

Recognised by MoEF, New Delhi Under

• GPCB apprved
Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



SR	TEST	UNIT	N	1P1 WEST ENI (N		CHANNEL FR E 72°37'24.4		IN	
NO	PARAMETERS	UNIT	20/04/23	25/05/23	22/06/23	24/07/23	17/08/23	18/09/23	
•			Surfa Botto ce m	Surfac Botto e m	Surfa Botto ce m	Surfac Botto e m	Surfa Botto ce m	Surfac Botto e m	
В	Zooplanktons	•							
17. 1	Abundance (Population)	Nox10 ³ /100 m ³	34	30	29	33	26	35	
17. 2	Name of Group Number and name of group species of each group		Polychaetes Gastropods Decapods	Polychaetes Gastropods Mysids Bivalves	Polychaetes Decapods Bivalves Mysids	Polychaetes Ostracods Mysids	Polychaetes Mysids Amphipods Copepods	Polychaetes Amphipods Copepods Decapods	
17. 3	Total Biomass	ml/100 m ³	2.90	2.70	2.80	2.90	2.50	3.25	
С	Microbiological Param	neters							
18. 1	Total Bacterial Count	CFU/ml	2460	2290	2340	2570	2410	2720	
18. 2	Total Coliform	/ml	Present	Present	Present	Present	Present	Present	
18. 3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent	
18. 4	Enterococcus species	/ml	Present	Present	Present	Present	Present	Present	
18. 5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	
18. 6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	
18. 7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	

Observation From the above results it is concluded that there is No Significant Changes in the Quality of Sea



Authorized Signatory

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



SEA WATER QUALITY ANALYSIS RESULTS OF CB1 END TOWARDS CHANNEL FROM THE TABLE-1.11: **SEA BASIN**

pH Temperature Total	UNI T	20/0	4/23		CB1 END TOWARDS CHANNEL FROM SEA BASIN (N 21° 5'14.67" , E 72°37'40.14")										
pH Temperature Total			T/ 23	25/0	5/23		6/23		7/23		8/23	18/0	9/23		
Temperature Total		Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom		
Total		8.12	8.05	8.25	8.21	8.34	8.27	8.24	8.20	8.16	8.13	8.24	8.21		
	°C	30.4	30.2	30.9	30.7	31.4	31.1	31.8	31.5	30.5	30.3	30.8	30.5		
Suspended Solids	mg/L	193	184	208	191	187	162	234	219	258	241	281	276		
BOD (3 Days @ 27 °C)	mg/L	5.30	4.90	4.90	4.30	3.90	3.50	3.20	3.00	3.56	3.28	4.26	3.32		
Dissolved Oxygen	mg/L	5.95	5.80	5.90	5.75	5.85	8.70	5.90	5.80	6.05	5.95	6.00	5.90		
Salinity	ppt	33.69	33.92	34.31	34.62	33.62	33.98	33.94	34.38	32.56	32.92	33.48	33.98		
Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		
Nitrate as NO₃	µmol /L	5.89	5.70	6.02	5.84	6.75	5.62	5.10	4.90	3.75	3.56	4.97	4.78		
Nitrite as NO ₂	μmol	0.57	0.49	0.61	0.52	0.83	0.71	0.67	0.52	0.52	0.46	0.46	0.39		
Ammonical Nitrogen as NH ₃	μmol /L	2.69	2.53	3.02	2.68	2.94	2.87	3.51	3.40	3.61	3.54	4.13	3.87		
Phosphates as PO ₄	µmol /L	2.47	2.39	2.19	2.04	3.06	2.94	3.29	3.15	2.53	2.40	2.67	2.54		
Total Nitrogen	µmol /L	9.43	8.96	9.84	9.26	12.75	10.13	9.36	8.90	7.94	7.68	9.82	9.13		
Petroleum Hydrocarbon	μg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		
Total Dissolved Solids	mg/L	34880	35118	34928	35219	34872	35175	35140	35612	33412	33764	34708	3516 8		
COD	mg/L	21.40	17.96	18.00	15.00	17.20	13.90	12.96	10.80	11.82	10.70	15.94	15.26		
Phytoplankton	1									•	1				
Chlorophyll	mg/ m³	2.75	2.40	2.88	2.45	2.67	2.32	2.56	2.50	2.40	2.28	2.69	2.42		
Phaeophytin	mg/ m³	0.28	0.62	0.72	0.95	0.17	1.08	0.48	0.26	0.60	0.21	0.13	0.82		
Cell Count	No x 1 0 ³ /L	362	355	399	385	412	396	423	406	392	380	415	398		
Name of Group Number and name of group species of each group		Leptocyli ndrus Rhizosole nia sp. Coscinod iscus sp. Skeleton ema sp. Nitzschia sp.	Fragillari a sp. Synedra sp. Gyrosigm a sp. Melosira sp. Ulothrix sp.	Leptocyli ndrus Rhizosole nia sp. Coscinodi scus sp. Navicula sp. Cymbella sp.	Synedra sp. Fragillari a sp. Melosira sp. Nitzschia sp. Spirogyr a sp.	Thallasio nema sp. Leptocyli ndrus Rhizosole nia sp. Cyclotell a sp. Coscinodi scus sp.	Nitzschia sp. Navicula sp. Melosira sp. Pleurosig ma sp. Synedra sp.	Thallasio sira sp. Leptocyli ndrus Coscinodi scus sp. Fragillari a sp. Cymbella sp.	Fragillari a sp. Navicula sp. Synedra sp. Rhizosole nia sp. Biddulphi a sp. Nitzschia	Nitzschia sp. Skeleton ema sp. Thallasio nema sp. Cymbella sp.	Synedra sp. Fragillari a sp. Thallasio nema sp. Rhizosole nia sp.	Thallasio sira sp. Cymbella sp. Leptocyli ndrus Fragillari a sp.	Navicula sp. Synedra sp. Rhizosol enia sp. Nitzschia sp. Pleurosig ma sp. Ulothrix sp.		
	@ 27 °C) Dissolved Oxygen Salinity Oil & Grease Nitrate as NO ₃ Nitrite as NO ₂ Ammonical Nitrogen as NH ₃ Phosphates as PO ₄ Total Nitrogen Petroleum Hydrocarbon Total Dissolved Solids COD Phytoplankton Chlorophyll Phaeophytin Cell Count Name of Group Number and name of group species of	@ 27 °C) mg/L Dissolved Oxygen mg/L Salinity ppt Oil & Grease mg/L Nitrate as NO ₃ µmol /L Nitrite as NO ₂ µmol /L Ammonical Nitrogen as NH ₃ µmol /L Total Nitrogen µmol /L Petroleum Hydrocarbon Total Dissolved Solids COD mg/L Phytoplankton Chlorophyll mg/ m³ Phaeophytin mg/ m³ Cell Count 1 Name of Group Number and name of group species of	@ 27 °C) mg/L 5.30 Dissolved Oxygen mg/L 5.95 Salinity ppt 33.69 Oil & Grease mg/L Not Detected Nitrate as NO ₂ μmol /L 5.89 Nitrite as NO ₂ μmol /L 0.57 Ammonical Nitrogen as NH ₃ μmol /L 2.69 Phosphates as PO ₄ μmol /L 9.43 Petroleum Hydrocarbon μg/L Not Detected Total Nitrogen Hydrocarbon mg/L 34880 COD mg/L 34880 Solids COD mg/L 2.75 Phytoplankton mg/L 2.75 Phaeophytin mg/m³ 0.28 Cell Count 1 362 No x Cell Count 1 362 Number and name of group No x Skeleton ema sp. Skeleton ema sp. Nitzschia	@ 27 °C) mg/L 5.30 4.90 Dissolved Oxygen mg/L 5.95 5.80 Salinity ppt 33.69 33.92 Oil & Grease mg/L Not Detected Not Detected Nitrate as NO₂ µmol /L 5.89 5.70 Nitrite as NO₂ µmol /L 0.57 0.49 Ammonical Nitrogen as NH₃ µmol /L 2.69 2.53 Phosphates as PO₄ µmol /L 9.43 8.96 Petroleum Hydrocarbon Total Dissolved Solids mg/L Not Detected Detected COD mg/L 34880 35118 Solids mg/L 21.40 17.96 Phytoplankton mg/L 2.75 2.40 Phaeophytin mg/m³ 0.28 0.62 No x Cell Count 1 ndrus Rhizosole nia sp. Coscinod iscus sp. Skeleton ema sp. Skeleton ema sp. Nkeleton em	@ 27 °C) mg/L 5.30 4.90 4.90 Dissolved Oxygen mg/L 5.95 5.80 5.90 Salinity ppt 33.69 33.92 34.31 Oil & Grease mg/L Not Detected Not Detected Not Detected Nitrate as NO₂ μmol /L 5.89 5.70 6.02 Nitrite as NO₂ μmol /L 0.57 0.49 0.61 Ammonical Nitrogen as NH₃ μmol /L 2.69 2.53 3.02 Phosphates as PO₄ μmol /L 2.47 2.39 2.19 Total Nitrogen Hydrocarbon Total Dissolved Solids μg/L Not Detected Det	@ 27 °C) mg/L 5.30 4.90 4.90 4.30 Dissolved Oxygen mg/L 5.95 5.80 5.90 5.75 Salinity ppt 33.69 33.92 34.31 34.62 Oil & Grease mg/L Not Detected Not Detected D	@ 27 °C) mg/L 5.30 4.90 4.90 4.30 3.90 Dissolved Oxygen mg/L 5.95 5.80 5.90 5.75 5.85 Salinity ppt 33.69 33.92 34.31 34.62 33.62 Oil & Grease mg/L Not Detected Detected	@ 27 °C) mg/L 5.30 4.90 4.90 4.30 3.90 3.50 Dissolved Oxygen mg/L 5.95 5.80 5.90 5.75 5.85 8.70 Salinity ppt 33.69 33.92 34.31 34.62 33.62 33.98 Nitrate as NO3 μmol /L 5.89 5.70 6.02 5.84 6.75 5.62 Nitrite as NO2 μmol /L 0.57 0.49 0.61 0.52 0.83 0.71 Ammonical Nitrogen as NH3 μmol /L 2.69 2.53 3.02 2.68 2.94 2.87 Po4 /L 2.47 2.39 2.19 2.04 3.06 2.94 Petroleum Hydrocarbon Potected Undected Dissolved Solids μg/L Not Detected	© 27°C) mg/L 5.30 4.90 4.90 4.30 3.90 3.50 3.20 Dissolved Oxygen mg/L 5.95 5.80 5.90 5.75 5.85 8.70 5.90 Salinity ppt 33.69 33.92 34.31 34.62 33.62 33.98 33.94 Oil & Grease mg/L Not Detected 2.69 2.53 3.02 2.68 2.94 2.87 3.51 Ammonical Nitrogen as PO ₄ pmol /L 2.47 2.39 2.19 2.04 3.06 2.94 3.29 Total Nitrogen as PO ₄ pmol /L 9.43 8.96 9.84 9.26 12.75 10.13 9.36 Petroleum Hydrocarbon pg/L Not Detected Detected Detected Not Detected Not Detected </td <td>© 27 °C) mg/L 5.30 4.90 4.90 4.90 3.90 3.90 3.20 3.00 Dissolved Oxygen mg/L 5.95 5.80 5.90 5.75 5.85 8.70 5.90 5.80 Salinity ppt 33.69 33.92 34.31 34.62 33.62 33.98 33.94 34.38 Oil & Grease mg/L betected bete</td> <td>⊚ 27 °C) / Dissolved Dissolved Dissolved Dissolved Dissolved oxygen mg/L 5.95 5.80 5.90 5.75 5.85 8.70 5.90 5.80 6.05 Salinity ppt 33.69 33.92 34.31 34.62 33.62 33.98 33.94 34.38 32.56 Oil & Grease mg/L Not Detected D</td> <td> Dissolved Diss</td> <td> Dissolved Diss</td>	© 27 °C) mg/L 5.30 4.90 4.90 4.90 3.90 3.90 3.20 3.00 Dissolved Oxygen mg/L 5.95 5.80 5.90 5.75 5.85 8.70 5.90 5.80 Salinity ppt 33.69 33.92 34.31 34.62 33.62 33.98 33.94 34.38 Oil & Grease mg/L betected bete	⊚ 27 °C) / Dissolved Dissolved Dissolved Dissolved Dissolved oxygen mg/L 5.95 5.80 5.90 5.75 5.85 8.70 5.90 5.80 6.05 Salinity ppt 33.69 33.92 34.31 34.62 33.62 33.98 33.94 34.38 32.56 Oil & Grease mg/L Not Detected D	Dissolved Diss	Dissolved Diss		



Authorized Signatory

Recognised by MoEF, New Delhi Under

• GPCB apprved
Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



SR	TEST		CB1 END TOWARDS CHANNEL FROM SEA BASIN (N 21° 5'14.67", E 72°37'40.14")								
NO	PARAMETERS	UNIT	20/04/23	25/05/23	22/06/23	24/07/23	17/08/23	18/09/23			
•			Surfac Botto e m	Surfac Botto e m	Surfac Botto e m	Surfac Botto e m	Surfac Botto e m	Surfac Botto e m			
В	Zooplanktons										
17. 1	Abundance (Population)	Nox10 ³ /100 m ³	32	22	35	30	32	35			
17. 2	Name of Group Number and name of group species of each group		Gastropods Polychaetes Bivalves Decapods Gastropods Polychaetes Bivalves		Gastropods Polychaetes Polychaetes Mysids Bivalves Bivalves Branchyurans Branchyurans		Bivalves Polychaetes Gastropods	Polychaetes Gastropods Copepods Amphipods			
17. 3	Total Biomass	ml/100 m ³	3.05	1.90	3.20	2.80	3.00	3.40			
C	Microbiological Param	eters									
18. 1	Total Bacterial Count	CFU/ml	2480	2130	2350	2040	2190	2270			
18. 2	Total Coliform	/ml	Present	Present	Present	Present	Present	Present			
18. 3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent			
18. 4	Enterococcus species	/ml	Present	Present	Present	Present	Present	Present			
18. 5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent			
18. 6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent			
18. 7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent			

Observation From the above results it is concluded that there is No Significant Changes in the Quality of Sea



Authorized Signatory

Recognised by MoEF, New Delhi Under

• GPCB apprved
Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



NOISE LEVEL MONITORING (APRIL - 2023 TO SEPTEMBER - 2023)

AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE DAY TIME IN Leq. dB(A) AT **NEAR PORT GATE NO.: 2**

SAMPLING LOCATION	1 - NEAR PORT GATE NO.: 2									
LONGITUDE LATITUDE			N 21° 05.426	E 72°37.739′						
DATE OF MONITORING	03/04/23	01/05/23	01/06/23	03/07/23	03/08/23	04/09/23				
06:00-07:00	73.7	73.4	69.7	67.2	67.5	68.1				
07:00-08:00	68.0	58.2	62.9	61.3	62.9	63.5				
08:00-09:00	71.1	71.5	72.5	73.8	72.2	72.9				
09:00-10:00	64.4	69.6	67.1	66.5	65.8	65.0				
10:00-11:00	63.5	55.4	60.7	58.3	59.0	57.8				
11:00-12:00	64.8	56.0	54.8	56.9	55.2	56.1				
12:00-13:00	59.8	61.6	55.9	53.4	51.4	52.9				
13:00-14:00	64.2	59.8	58.0	58.7	59.2	58.5				
14:00-15:00	68.4	64.0	65.4	64.9	62.6	62.7				
15:00-16:00	62.4	64.9	67.3	68.8	67.8	69.4				
16:00-17:00	62.8	62.1	63.5	64.8	65.9	64.0				
17:00-18:00	60.4	53.7	56.4	55.7	57.4	59.5				
18:00-19:00	71.2	65.1	64.3	63.1	61.3	62.4				
19:00-20:00	68.2	52.9	54.9	55.6	53.9	56.0				
20:00-21:00	66.0	61.8	64.4	66.6	64.1	64.2				
21:00-22:00										
#dB(A) Leq. Denotes the	#dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.									
Day Time shall mean fron	Day Time shall mean from 6:00 am to 10:00 pm									

TABLE-1.14: AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE NIGHIT TIME IN Leq. dB(A) AT NEAR PORT GATE NO.: 2

SAMPLING LOCATION	1 - NEAR PORT GATE NO.: 2										
LONGITUDE LATITUDE			N 21° 05.426	Έ 72°37.739′							
DATE OF MONITORING	03/04/23 & 04/04/23	01/05/23 & 02/05/23	01/06/23 & 02/06/23	03/07/23 & 04/07/23	03/08/23 & 04/08/23	04/09/23 & 05/09/23					
22:00-23:00	56.5	50.6	53.5	56.0	57.9	59.5					
23:00-00:00	56.6	54.1	55.1	54.1	55.1	54.6					
00:00-01:00	57.8	50.7	49.6	51.5	51.5	51.6					
01:00-02:00	52.1	58.4	57.9	59.7	61.3	61.5					
02:00-03:00	59.9	49.7	52.3	52.6	51.1	51.2					
03:00-04:00	56.1	59.4	56.9	54.6	52.1	52.4					
04:00-05:00	58.6	49.3	48.3	49.6	50.2	51.7					
05:00-06:00	55.6	54.7	54.1	51.6	50.0	50.9					

[#]dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. Night Time shall mean from 10:00 pm to 06:00 am.

Above given Results are within the specified norms as per The Noise Pollution (Regulation and



Authorized Signatory

FSSAI Approved Lab • Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

- GPCB apprved



TABLE-1.15: AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE DAY TIME IN Leq. dB(A) AT **HSE BUILDING TERRACE**

SAMPLING LOCATION			2 - HSE BUILD	ING TERRACE								
LONGITUDE LATITUDE				E 72° 38.491′								
DATE OF MONITORING	10/04/23	08/05/23	08/06/23	10/07/23	10/08/23	11/09/23						
06:00-07:00	64.6	65.2	64.1	65.5	64.4	64.0						
07:00-08:00	71.0	62.1	68.2	67.2	68.7	69.4						
08:00-09:00	63.2	60.6	62.2	62.0	61.1	59.9						
09:00-10:00	67.7	56.2	54.4	53.2	51.9	52.9						
10:00-11:00	60 63.0 64.4 67.3 69.1 71.5 72.3											
11:00-12:00	60.1	73.7	71.4	70.1	67.6	69.8						
12:00-13:00	71.7	49.6	51.8	50.5	49.3	49.2						
13:00-14:00	65.7	62.9	62.5	62.4	61.6	62.1						
14:00-15:00	63.1	57.0	54.0	51.9	53.7	55.0						
15:00-16:00	66.3	64.8	64.7	62.3	62.7	63.5						
16:00-17:00	70.1	62.0	63.3	61.0	62.1	60.8						
17:00-18:00	63.7	70.2	71.6	72.8	70.4	70.4						
18:00-19:00	63.9	58.9	56.6	55.8	57.1	56.8						
19:00-20:00	61.0	53.8	57.8	60.3	59.3	59.6						
20:00-21:00	65.9	58.4	62.7	60.5	59.9	59.3						
21:00-22:00												
#dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.												
Day Time shall mean from	n 6:00 am to 10:00) pm										

TABLE-1.16: AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE NIGHT TIME IN Leq. dB(A) AT HSE BUILDING TERRACE

SAMPLING LOCATION		2 - HSE BUILDING TERRACE									
LONGITUDE LATITUDE			N 21° 05.043′	E 72° 38.491′							
DATE OF MONITORING	10/04/23 & 11/04/23	08/05/23 & 06/05/23	08/06/23 & 09/06/23	10/07/23 & 11/07/23	10/08/23 & 11/08/23	11/09/23 & 12/09/23					
22:00-23:00	52.0	58.4	61.1	59.7	57.3	57.2					
23:00-00:00	57.7	52.4	51.3	49.3	49.5	48.7					
00:00-01:00	51.1	50.3	51.5	52.8	54.3	55.9					
01:00-02:00	49.3	46.9	47.5	45.0	46.2	48.6					
02:00-03:00	55.9	58.2	60.6	60.3	59.6	57.4					
03:00-04:00	53.1	61.9	59.0	59.1	59.0	59.8					
04:00-05:00	59.8	51.8	54.8	56.3	56.6	54.7					
05:00-06:00	56.1	48.3	50.2	51.2	51.0	49.9					
#dB(A) Leq. Denotes the t	time weighted ave	rage of the level o	f sound in decibels	on scale A which	is relatable to hun	nan hearing.					

Above given Results are within the specified norms as per The Noise Pollution (Regulation and



Authorized Signatory

Night Time shall mean from 10:00 pm to 06:00 am.

FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

GPCB apprved



TABLE-1.17: AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE DAY TIME IN Leq. dB(A) AT CENTRAL WATER PUMP HOUSE

SAMPLING LOCATION		3 -	CENTRAL WAT	ER PUMP HOU	SE								
LONGITUDE LATITUDE			N 21° 04.697′	E 72° 38.420′									
DATE OF MONITORING	13/04/23	11/05/23	12/06/23	13/07/23	14/08/23	14/09/23							
06:00-07:00	66.0	66.7	66.7	66.2	66.8	67.3							
07:00-08:00	63.8	56.6	56.6	55.2	54.5	56.4							
08:00-09:00	64.6	64.1	67.4	68.7	66.8	67.4							
09:00-10:00	68.7	59.5	63.3	65.2	63.6	61.7							
10:00-11:00													
11:00-12:00	69.4	69.2	66.9	65.4	63.2	63.7							
12:00-13:00	64.3	68.0	65.6	66.4	67.4	65.4							
13:00-14:00	65.1	69.9	68.7	69.5	68.1	70.6							
14:00-15:00	55.2	56.9	61.5	61.4	60.5	62.5							
15:00-16:00	72.3	72.8	69.3	67.8	66.2	68.3							
16:00-17:00	64.0	57.5	60.9	59.8	58.5	59.2							
17:00-18:00	64.2	72.0	69.7	70.9	70.1	67.9							
18:00-19:00	69.3	68.5	64.4	64.0	64.2	66.0							
19:00-20:00	58.3	64.0	61.0	59.9	60.7	60.9							
20:00-21:00	53.2	65.2	61.8	63.5	64.2	62.3							
21:00-22:00	21:00-22:00 66.1 53.9 57.1 58.7 60.5 58.7												
	#dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.												
Day Time shall mean from	6:00 am to 10:00) pm.	Day Time shall mean from 6:00 am to 10:00 pm.										

TABLE-1.18: AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE NIGHT TIME IN Leq. dB(A)
AT CENTRAL WATER PUMP HOUSE

SAMPLING LOCATION		3 - CENTRAL WATER PUMP HOUSE							
LONGITUDE LATITUDE		N 21° 04.697′ E 72° 38.420′							
DATE OF MONITORING	13/04/23 & 14/04/23	11/05/23 & 12/05/23	12/06/23 & 13/06/23	13/07/23 & 14/07/23	14/08/23 & 15/08/23	14/09/23 & 15/09/23			
22:00-23:00	55.4	56.7	57.1	54.8	53.9	55.4			
23:00-00:00	50.9	54.7	57.5	56.4	57.6	58.8			
00:00-01:00	56.6	55.3	57.3	56.2	55.2	54.5			
01:00-02:00	51.7	66.2	63.5	65.0	65.2	67.7			
02:00-03:00	59.5	57.8	60.0	62.2	62.4	62.4			
03:00-04:00	52.9	55.8	59.7	61.0	58.7	58.9			
04:00-05:00	60.7	64.1	66.9	66.2	65.3	66.8			
05:00-06:00	54.7	55.4	55.5	56.5	54.1	54.0			
#dB(A) Leq. Denotes the t	time weighted ave	rage of the level o	f sound in decibels	on scale A which	is relatable to hun	nan hearing.			

Night Time shall mean from 10:00 pm to 06:00 am. **Observation** Above given Results are within the specified norms as per The Noise Pollution (Regulation and



Authorized Signatory

[●] FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

GPCB apprved schedule II auditor

[●] ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO 9001 : 2008



TABLE-1.19: AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE DAY TIME IN Leq. dB(A) AT **CONTAINER TERMINAL**

SAMPLING LOCATION			4 - CONTAIN	ER TERMINAL	·	
LONGITUDE LATITUDE			N 21° 05.187	E 72° 37.774′		
DATE OF MONITORING	06/04/23	04/05/23	05/06/23	06/07/23	07/08/23	07/09/23
06:00-07:00	64.0	63.3	60.7	60.2	58.2	57.6
07:00-08:00	63.5	72.9	73.2	71.8	73.2	71.6
08:00-09:00	56.3	63.7	62.8	60.9	62.4	60.2
09:00-10:00	58.3	54.2	57.5	59.6	61.7	63.7
10:00-11:00	69.0	61.7	62.6	64.9	63.6	61.8
11:00-12:00	62.8	58.7	60.4	61.2	62.0	62.0
12:00-13:00	67.9	54.6	56.3	57.1	57.2	58.7
13:00-14:00	71.7	55.9	57.1	58.8	63.3	64.3
14:00-15:00	68.0	62.1	64.1	63.1	61.2	63.2
15:00-16:00	59.9	51.4	55.5	56.6	54.5	56.1
16:00-17:00	63.0	65.2	64.4	64.0	64.4	66.9
17:00-18:00	65.8	69.6	68.9	70.7	68.7	68.6
18:00-19:00	72.9	66.0	65.6	63.9	64.7	64.8
19:00-20:00	56.2	65.3	70.8	70.1	67.6	67.3
20:00-21:00	61.2	58.4	57.3	55.1	57.4	57.4
21:00-22:00	64.8	62.3	65.0	65.3	65.7	66.8
#dB(A) Leq. Denotes the ti	me weighted aver	age of the level of	sound in decibels	on scale A which	is relatable to hun	nan hearing.
Day Time shall mean from	•	•				

AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE NIGHT TIME IN Leq. dB(A) TABLE-1.20: AT CONTAINER TERMINAL

SAMPLING LOCATION		4 - CONTAINER TERMINAL								
LONGITUDE LATITUDE	N 21° 05.187′ E 72° 37.774′									
DATE OF MONITORING	06/04/23 & 07/04/23	04/05/23 & 05/05/23	05/06/23 & 06/06/23	06/07/23 & 07/07/23	07/08/23 & 08/08/23	07/09/23 & 08/09/23				
22:00-23:00	62.6	55.7	51.5	49.2	50.8	48.6				
23:00-00:00	53.9	59.3	56.5	55.4	56.7	54.8				
00:00-01:00	55.1	45.6	45.9	46.3	48.7	49.7				
01:00-02:00	61.4	54.6	57.9	58.5	59.4	61.9				
02:00-03:00	53.8	48.8	47.4	45.8	46.1	47.8				
03:00-04:00	57.2	51.1	52.7	54.6	56.5	58.7				
04:00-05:00	56.6	49.9	53.3	50.8	50.4	50.9				
05:00-06:00	60.0	57.3	56.9	58.2	56.4	58.2				

fdB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. Night Time shall mean from 10:00 pm to 06:00 am.

Above given Results are within the specified norms as per The Noise Pollution (Regulation and



Authorized Signatory

FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

GPCB apprved



TABLE-1.21: AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE DAY TIME IN Leq. dB(A) AT HAZIRA VILLAGE

SAMPLING LOCATION			5 - HAZIR	A VILLAGE		
LONGITUDE LATITUDE			N 21° 05.44′	E 72° 38.44′		
DATE OF MONITORING	17/04/23	15/05/23	15/06/23	17/07/23	17/08/23	18/09/23
06:00-07:00	67.3	69.7	70.1	70.6	68.8	68.9
07:00-08:00	56.9	65.0	66.6	65.4	63.1	61.5
08:00-09:00	66.8	65.5	62.4	62.3	64.8	67.3
09:00-10:00	56.6	59.9	58.9	60.0	61.4	63.2
10:00-11:00	62.1	55.2	52.5	53.5	54.3	52.0
11:00-12:00	69.1	64.5	64.7	64.5	65.8	67.8
12:00-13:00	65.1	68.7	70.4	70.1	70.5	69.9
13:00-14:00	53.3	53.2	56.1	56.2	58.6	58.1
14:00-15:00	66.3	63.5	65.3	66.9	68.2	69.2
15:00-16:00	72.8	67.2	62.2	64.2	66.5	67.0
16:00-17:00	60.7	62.2	63.7	65.5	65.4	63.9
17:00-18:00	54.1	66.6	70.3	68.8	71.0	70.6
18:00-19:00	62.4	60.9	63.6	62.9	61.5	63.6
19:00-20:00	69.2	67.8	67.9	67.9	66.8	66.7
20:00-21:00	57.5	67.6	69.8	68.3	70.8	68.3
21:00-22:00	58.6	64.6	60.4	61.0	61.2	59.5
#dB(A) Leq. Denotes the til			sound in decibels	on scale A which	is relatable to hun	nan hearing.
Day Time shall mean from	6:00 am to 10:00	pm.				

TABLE-1.22: AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE NIGHT TIME IN Leq. dB(A) AT HAZIRA VILLAGE

SAMPLING LOCATION			5 - HAZIR	A VILLAGE				
LONGITUDE LATITUDE		N 21° 05.44′ E 72° 38.44′						
DATE OF MONITORING	17/04/23 & 18/04/23	15/05/23 & 16/05/23	15/06/23 & 16/06/23	17/07/23 & 18/07/23	17/08/23 & 18/08/23	18/09/23 & 19/09/23		
22:00-23:00	56.7	52.9	55.1	57.1	57.2	55.1		
23:00-00:00	56.2	50.8	52.1	50.8	53.1	55.5		
00:00-01:00	61.9	59.6	57.9	55.7	54.6	55.9		
01:00-02:00	54.2	61.5	58.9	57.6	59.8	61.4		
02:00-03:00	57.7	51.5	49.7	49.9	50.0	51.8		
03:00-04:00	52.3	64.7	66.5	68.1	66.7	68.7		
04:00-05:00	55.3	48.5	48.6	47.2	45.3	45.2		
05:00-06:00	54.4	63.0	58.0	58.2	58.2	57.3		
#dB(A) Leq. Denotes the t	time weighted ave	rage of the level o	f sound in decibels	on scale A which	is relatable to hun	nan hearing.		

Observation Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

Note: The Noise Level of Hazira Village is compare with the Industrial area Norms as Hazira Village is Surround By Numbers of industries.



Authorized Signatory

● FSSAI Approved Lab ■ Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

Night Time shall mean from 10:00 pm to 06:00 am.

 GPCB apprved schedule II auditor

● ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO 9001 : 2008



TABLE-1.23: AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE DAY TIME IN Leq. dB(A) AT **SUVALI VILLAGE**

SAMPLING LOCATION			6 - SUVAL	VILLAGE		
LONGITUDE LATITUDE			N 21° 08.55′	E 72° 38.24′		
DATE OF MONITORING	20/04/23	18/05/23	19/06/2023	20/07/23	21/08/23	21/09/23
06:00-07:00	59.3	52.4	51.8	53.2	55.5	55.4
07:00-08:00	65.1	53.3	50.2	51.7	51.2	51.5
08:00-09:00	64.5	54.1	55.8	56.2	55.9	55.1
09:00-10:00	52.8	56.7	59.0	60.5	58.9	59.4
10:00-11:00	60.6	44.0	44.2	43.2	43.0	42.7
11:00-12:00	55.0	56.0	54.1	51.9	51.5	52.8
12:00-13:00	63.3	50.9	54.3	53.7	52.4	50.6
13:00-14:00	56.0	56.6	50.6	49.6	51.8	53.5
14:00-15:00	62.2	64.8	63.2	62.1	61.1	61.4
15:00-16:00	59.2	51.0	52.6	52.9	53.9	54.4
16:00-17:00	61.9	47.5	46.7	45.8	43.9	45.5
17:00-18:00	57.1	48.8	48.9	50.5	52.8	53.4
18:00-19:00	63.0	42.8	45.2	45.0	45.6	44.8
19:00-20:00	58.4	50.6	50.8	50.0	50.9	49.3
20:00-21:00	62.9	45.2	49.2	48.9	49.1	47.9
21:00-22:00	59.9	54.3	53.5	54.4	52.2	52.3
#dB(A) Leq. Denotes the ti			f sound in decibels	on scale A which i	s relatable to hun	nan hearing.
Day Time shall mean from	6:00 am to 10:00	pm.				

AMBIENT NOISE LEVEL MONITORING RESULTS DURING THE NIGHT TIME IN Leq. dB(A) **TABLE-1.24:** AT SUVALI VILLAGE

	6 - SUVALI VILLAGE							
	N 21° 08.55′ E 72° 38.24′							
20/04/23 & 21/04/23	18/05/23 & 19/05/23	19/06/23 & 20/06/23	20/07/23 & 21/07/23	21/08/23 & 22/08/23	21/09/23 & 22/09/23			
49.8	47.3	50.2	49.8	48.0	47.3			
46.6	48.5	44.9	42.5	41.0	39.1			
52.2	50.8	47.8	45.6	46.4	45.5			
53.3	46.7	44.8	45.9	47.0	45.0			
50.6	52.6	53.4	54.8	56.3	57.6			
50.4	44.0	42.6	43.8	46.2	44.3			
47.9	53.8	51.8	53.5	54.2	53.7			
45.5	46.5	49.8	47.9	46.5	46.2			
	21/04/23 49.8 46.6 52.2 53.3 50.6 50.4 47.9	21/04/23 19/05/23 49.8 47.3 46.6 48.5 52.2 50.8 53.3 46.7 50.6 52.6 50.4 44.0 47.9 53.8	N 21° 08.55′ 20/04/23 & 21/04/23 18/05/23 & 20/06/23 49.8 47.3 50.2 46.6 48.5 44.9 52.2 50.8 47.8 53.3 46.7 44.8 50.6 52.6 53.4 50.4 44.0 42.6 47.9 53.8 51.8	N 21° 08.55′ E 72° 38.24′ 20/04/23 & 21/04/23 18/05/23 & 20/06/23 20/07/23 & 21/07/23 49.8 47.3 50.2 49.8 46.6 48.5 44.9 42.5 52.2 50.8 47.8 45.6 53.3 46.7 44.8 45.9 50.6 52.6 53.4 54.8 50.4 44.0 42.6 43.8 47.9 53.8 51.8 53.5	N 21° 08.55′ E 72° 38.24′ 20/04/23 & 21/04/23 18/05/23 & 19/06/23 & 20/07/23 & 22/08/23 49.8 47.3 50.2 49.8 48.0 46.6 48.5 44.9 42.5 41.0 52.2 50.8 47.8 45.6 46.4 53.3 46.7 44.8 45.9 47.0 50.6 52.6 53.4 54.8 56.3 50.4 44.0 42.6 43.8 46.2 47.9 53.8 51.8 53.5 54.2			

Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.



Authorized Signatory

FSSAI Approved Lab • Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

Night Time shall mean from 10:00 pm to 06:00 am.

GPCB apprved



4G. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING (APRIL - 2023) TO SEPTEMBER - 2023)

TABLE-1.25A: UDG SETS STACK EMISSION MONITORING RESULTS

SI	R.	DADAMETERS	UNIT -	DG SET TOY	O DENKI - 1	DG SET TOYO DENKI - 2		
N	Ο.	PARAMETERS		25/05/23	21/08/23	25/05/23	21/08/23	
IC L	1	Particulate Matter	mg/Nm ³	26.38	28.84	25.81	23.67	
2	2	Sulphur Dioxide	ppm	6.17	7.41	7.63	6.82	
10 3	3	Oxide of Nitrogen	ppm	33.23	34.57	35.63	32.45	
L	4	Carbon Monoxide (CO)	mg/m³	31.49	20.04	26.32	29.87	
	5	Non Methyl Hydro Carbon (NMHC)	mg/m³	Not Detected	Not Detected	Not Detected	Not Detected	

TABLE-1.25B: DG SETS STACK EMISSION MONITORING RESULTS

SR.	PARAMETERS	UNIT -	DG SET TOY	O DENKI - 3	SS - 1 LT DG - 320 KVA		
NO.	PAKAMETEKS		25/05/23	21/08/23	26/05/23	21/08/23	
1	Particulate Matter	mg/Nm ³	28.51	25.54	35.67	35.78	
2	Sulphur Dioxide	ppm	8.5	7.99	7.21	7.67	
3	Oxide of Nitrogen	ppm	38.67	36.31	34.26	34.38	
4	Carbon Monoxide (CO)	mg/m³	29.45	24.43	16.26	14.89	
5	Non Methyl Hydro Carbon (NMHC)	mg/m³	Not Detected	Not Detected	Not Detected	Not Detected	

TABLE-1.25C: DG SETS STACK EMISSION MONITORING RESULTS

SR.	PARAMETERS	UNIT	SS3 - DG	- 200 KVA	LT PHASE - 1 (625 KVA)		
NO.	PARAMETERS	ONTI	26/05/23	22/08/23	26/05/23	22/08/23	
1	Particulate Matter	mg/Nm ³	25.61	25.65	34.22	34.37	
2	Sulphur Dioxide	ppm	7.21	7.04	4.64	4.68	
3	Oxide of Nitrogen	ppm	35.66	35.8	34.27	34.39	
4	Carbon Monoxide (CO)	mg/m³	12.83	17.18	20.16	21.76	
5	Non Methyl Hydro Carbon (NMHC)	mg/m³	Not Detected	Not Detected	Not Detected	Not Detected	



Authorized Signatory

PFSSAI Approved Lab • Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

GPCB apprved schedule II auditor

● ISO 14001:2004 • OHSAS 18001:2007 • ISO 9001: 2008



TABLE-1.25D: UDG SETS STACK EMISSION MONITORING RESULTS

C	SR.	DADAMETERS	LINITT	LT PHASE -	2 (750 KVA)	ER - 1 (100 KVA)	
10	NO.	PARAMETERS	UNIT	26/05/23	22/08/23	26/05/23	22/08/23
Ĺ	1	Particulate Matter	mg/Nm ³	37.69	37.77	30.23	30.33
L	2	Sulphur Dioxide	ppm	6.08	6.35	6.43	6.64
L	3	Oxide of Nitrogen	ppm	37.53	37.61	30.25	30.38
L	4	Carbon Monoxide (CO)	mg/m³	21.6	21.6	18.9	16.38
L	5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected

SR.	PARAMETERS	UNIT	NDG BUILDI	NG (380 KVA)	CUSTOM BUILDING (320 KVA)		
NO.			26/05/23	22/08/23	26/05/23	22/08/23	
1	Particulate Matter	mg/Nm ³	33.45	33.48	32.42	32.47	
2	Sulphur Dioxide	ppm	5.37	4.97	6.3	6.2	
3	Oxide of Nitrogen	ppm	31.49	31.66	33.52	33.6	
4	Carbon Monoxide (CO)	mg/m³	17.87	18.32	14.43	17.18	
5	Non Methyl Hydro Carbon (NMHC)	mg/m³	Not Detected	Not Detected	Not Detected	Not Detected	



Authorized Signatory



DG SETS NOISE LEVEL MONITORING RESULTS TABLE-1.26:

SR.	DG SET AVERAGE NOISE LEVEL IN LEQ. DB(A)						
NO.	SAMPLING LOCATION	AT 1 M DISTANCE FROM THE ENCLOSURE					
	Sampling Date	25 & 26/05/23	21 & 22/08/23				
1.	DG SET TOYO DENKI - 1	70.5	72.3				
2.	DG SET TOYO DENKI - 2	67.3	68.1				
3.	DG SET TOYO DENKI -3	65.2	70.2				
4.	SS-1 LT DG -320 KVA	72.6	67.1				
5.	SS3 -DG -200 KVA	66.3	62.9				
6.	LT PHASE -1 (625 KVA)	70.1	58.2				
7.	LT PHASE -2 (750 KVA)	65.9	66.7				
8.	ER-1 (100 KVA)	69.7	62.1				
9.	NDG BUILDING (380 KVA)	61.3	59.3				
10.	CUSTOM BUILDING (320 KVA)	71.4	66.0				



Authorized Signatory

◆FSSAI Approved Lab ◆ Recognised by MoEF, New Delhi Under ◆ GPCB apprved Sec. 12 of Environmental (Protection) Act-1986 ← Schedule II auditor



SEA SEDIMENT QUALITY MONITORING (APRIL - 2023 TO SEPTEMBER - 2023)

SEA SEDIMENT QUALITY RESULTS OF CB2 SOUTH END TOWARDS LANDSIDE

SR	PARAMETERS	UNIT	CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN (N 21° 5'1.92", E 72°37'56.58")						
NO			20/04/23	25/05/23	22/06/23	24/07/23	17/08/23	18/09/23	
ON1POL	Organic Matter	%	0.30	0.47 CON	0.53	ON 0.43 CON	0.51	0.46	
2	Phosphorus as P	μg/g	814	753	802	713	806	739	
3	Texture	N POLLUC	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	
UCON P	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
0.50	Heavy Metals	POLLUCON	N POLLUC N POLL	UCON POLLUCON	POL	N POLLUCON	POLLUCON POLLU	CON POLLUCON I	
5.1	Aluminum as Al	%	5.26	5.02	5.13	4.76	5.29	4.86	
5.2	Total Chromium as Cr ⁺³	µg/g	97.58	109	98.24	105 con	118	127	
5.3	Manganese as Mn	µg/g	662	JCON 713 JCON	756	CON 801 CON	703	N 782 N	
5.4	Iron as Fe	%	4.82	5.12	4.97	5.24	5.08	4.96	
5.5	Nickel as Ni	μg/g	50.24	56.29	60.71	53.79	49.17	57.89	
5.6	Copper as Cu	μg/g	56.93	61.37	81.33	62.31	53.28	61.75	
5.7	Zinc as Zn	µg/g	0N 01120N PO	93.46	107	95.84	89.84	98.24	
5.8	Lead as Pb	µg/g	1.63	1.27	Not Detected	2.13	1.59	1.75	
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
6	Benthic Organisms POLLUCON P								
ON POLICON POL	Macrobenthos (No and name of groups present, No and name of species of each group present)	POLICON N FLLUCO PLLUCON POLLUCON N POLLUCON N POLLUCON	Branchyura ns Polychaete s astropods	Polychaete s Gastropods Crustacean s Decapods	Branchyura ns Polychaete s Gastropods Decapods	Branchyura ns Polychaete s Gastropods	Polychaete s Gastropods Bivalves	Polychaete s Gastropods Branchyura ns	
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	POLLUCON N POLLUCON N POLLUCON N POLLUCON N POLLUCON N POLLUCON	Nematodes Foraminifer ans	Nematodes	POLLUCON POLLUN POLLUCON POLLU	Foraminifer ans	Nematodes	Foraminifer ans	
6.3	Population	No./ m ²	529	441	529	676	440	559	

From the above results it is concluded that there is No Significant Changes in the Quality of Sea Observation Sediment.



Authorized Signatory

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

GPCB apprved



SEA SEDIMENT QUALITY RESULTS OF MP1 WEST END TOWARDS CHANNEL OF SEA

Sr. No	PARAMETERS	UNI T	MP1 WEST END TOWARDS CHANNEL OF SEA BASIN (N 21° 5'9.78",E 72°37'24.48")						
ON POI			20/04/23	25/05/23	22/06/23	24/07/23	17/08/23	18/09/23	
ON POI	Organic Matter	%	0.28	0.38	0.5	0.48	0.53	0.49	
20	Phosphorus as P	µg/g	839	704	745	ICON 803 ICON	738	ON P805	
3	Texture	N POLLUCI	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	
100 P	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
5	Heavy Metals	N POLLUC	ON POLLUC N POL	LLUCON POLLUCO	N POL JCON POLL	UCON POLLUCON	POLLUCON POLLU	CON POLLUCON	
5.1	Aluminum as Al	%	5.26	Luco 5.12 Luco	5.06	4.82	5.12	0N 4.98 0N	
5.2	Total Chromium as Cr ⁺³	µg/g	99.17	103	95.12	103	97.28	107	
5.3	Manganese as Mn	μg/g	802	756	724	769	704	756	
5.4	Iron as Fe	%	4.98	5.04	70L 4.9	5.02 CON	4.83	ON P5.12 ON	
5.5	Nickel as Ni	μg/g	54.28	61.57	56.29	69.75	51.72	63.75	
5.6	Copper as Cu	μg/g	63.17	52.31	65.13	43.61	36.54	47.12	
5.7	Zinc as Zn	μg/g	96.32	92.56	ON PO112 ON PO	90.73	82.35	91.58	
5.8	Lead as Pb	μg/g	1.47	1.32	Not Detected	2.04	1.29	1.73	
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
6	Benthic Organisms	N POLLUC	POLLUCON POL	LLUCON POLLUCO	N POL ON PO	UCON POLLUCON	POLLUCON POLLU	CON POLLUCON	
ON POIL ICON POIL	Macrobenthos (No and name of groups present, No and name of species of each group present)	N POLLU ON PO A POLLU ON POLLU	Gastropods Polychaetes Amphipods	Brachyuran S Gastropods Polychaetes	Brachyuran s Gastropods Polychaetes	Branchyura ns Gastropods Bivalves	Gastropods Bivalves Polychaetes	Gastropods Bivalves Polychaetes	
6.2 0N POI	MeioBenthos (No and name of groups present, No and name of species of each group present)	ON POLLUC	Nematodes	Foraminifer	POLLUCON POLL N POLLUCON POLL POLLUCON POLL N POLLUCON POLL POLLUCON POLL	LICON POLITION LLUCON POLLUC LCON POLLUC LICON POLLUC LUCON POLLUC LUCON POLLUC LUCON POLLUC LUCON POLLUC LUCON POLLUC LUCON POLLUC	Foraminifer ans	Foraminifer	
6.3	Population	No./ m ²	614	556	588	735	499	585	

Observation From the above results it is concluded that there is No Significant Changes in the Quality of Sea



Authorized Signatory

Recognised by MoEF, New Delhi Under

• GPCB apprved
Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor FSSAI Approved Lab • Recognised by MoEF, New Delhi Under



TABLE-1.29: **SEA SEDIMENT QUALITY RESULTS OF CB1 END TOWARDS CHANNEL**

SR	PARAMETERS	UNI	CB1 WEST END TOWARDS CHANNEL OF SEA BASIN (N 21° 5'14.67", E 72°37'40.14")						
NO .			20/04/23	25/05/23	22/06/23	24/07/23	17/08/23	18/09/23	
ICON P	Organic Matter	%	0.29	0.37	0.42	0.32	0.50	0.47	
2	Phosphorus as P	µg/g	813	708	805	765	713	769	
1c3	Texture OLLUCON POLLUC	ON TOLLI	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	
IC4 POL	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
JCC5V P	Heavy Metals	ON POLL	ICON POLLIC ON I	OLLUCON POLLUCO	ON P LUCON POL	LLUCON POLLUCON	N POLLUCON POLLU	LUCON POLLUCON	
5.1	Aluminum as Al	%	CON 4.96 ON I	ou.uc5.29ou.uc	ON P 5.13	4.93	N POL 5.19 I POL	ucon5.03uco	
5.2	Total Chromium as Cr ⁺³	µg/g	103 N	91.37	112	99.54	POLLUCON POLLU	97.14	
5.3	Manganese as Mn	µg/g	768	684	738	792	756	728	
5.4	Iron as Fe	%	4.76	5.02	4.92	5.19	4.93	5.12	
5.5	Nickel as Ni	µg/g	61.23	56.7	63.85	55.68	47.51	61.37	
5.6	Copper as Cu	µg/g	53.17	68.9	51.23	46.17	54.32	43.93	
5.7	Zinc as Zn	µg/g	93.56	175	92.38	106 CON	93.17	116	
5.8	Lead as Pb	µg/g	1.32	1.75	Not Detected	2.37	1.49	1.92	
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
6	Benthic Organisms	ON POLLI	N POLLUCON I	OLLUCON POLLUCO	ON PULCON ON POL	LLUCON POLLUCO	N POLLUCON POL POLLUCON POLLU	LUCON POLLUCO CON POLLUCON	
ICON POI ICON POI I 6.1 P ON POI ICON POI ICON POI ICON P	Macrobenthos (No and name of groups present, No and name of species of each group present)	ON POLLU ON POLLU ON POLLU ON POLLU O POLLU O POLLU ON POLLU ON POLLU	Polychaetes Bivalves Amphipods Branchyura ns	Polychaetes Bivalves Brachyuran S	Polychaetes Bivalves Amphipods Gastropods	Polychaetes Bivalves Gastropods	Polychaetes Bivalves Amphipods	Branchyura ns Gastropods Polychaetes	
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	ON POLLUC ON POLLUC ON TOTAL NOTELUC ON POLLUC ON POLLUC NOTELUC ON POLLUC	Nematodes	Nematodes	Foraminifer ans	Foraminifer ans Nematodes	Foraminifer ans	Foraminifer ans	
6.3	Population	No./ m ²	437	496	559	618	528	496	

From the above results it is concluded that there is No Significant Changes in the Quality of Sea Observation Sediment.



Authorized Signatory

Recognised by MoEF, New Delhi Under

• GPCB apprved
Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



4I. POLLICON POLLU SOIL QUALITY MONITROING (APRIL - 2023 TO SEPTEMBER - 2023)

TABLE-1.30A: SOIL QUALITY RESULTS OF NEAR PORT GATE NO. 2

ON POLLUCE	N POLLUCON POLLUCON POLLUCON POLLUCON I	POLLUCON POL	NEAR PORT GATE NO. 2		
SR. NO.	PARAMETERS	POLLUCO POLLUCON POLL	23/06/23	18/09/23	
N POLLUCON	Type Pollucon Polluco	POLLUCON POLLUCON POLLUCON POL ELUCON POLLUCON POLLUCON POL	Sandy Loam	Sandy Loam	
Grain Size	e Analysis POLLUCON P	POLLUCON POLLUCON POLLUCON PO	LUCON POLLUCON POLLUCO OLLUCON POLLUCON POLLU	ON POLLUCON POLLUCION POLLUCON POLLUCON POLLUCON POLLUCON POLLUCON POLL	
2	Gravel IN POLLUCON PO	POLLUCO % LLUCON POLLUCON POLL	1.8 on poli	2.8	
N PO 3 UCON	Coarse Sand	POLLUCON POLLUCON %	7.2	n Polluc 6.2	
ON POLLUCE N PO4 UEON ON POLLUCE	Medium Sand	DELUCON POLLUCON POLL	UCON POLLEGO POLLUCO	N POLLUCO 23 OLLUC	
N POLLUCON	Fine Sand	POLLUCON POLLUCON POLLUCON POLLUCON POL	UCON POLLUCON POLLUCO	N POLLUCO 41 POLLUC	
ON 16 LLUCO	Total Sand LUCON POLLUCON POL	POLITICON POLITI	OLLUCON POTRICON POLICION	CON POLLUCON POLLUC	
ON POLICON	Silt + Clay CON POLLICON POLLICON POLLICON POL	POLLUCO POLLUCON OLLUC N POL	ULLUCON POLLUCON POLU	N POLLUCO 30 POLLUC	
N 108 LCON	pH (1:5) LUCON POLLUCON POLLUCON PO	POLLUCON POL	UCON POL 8.9 N POLLUCO	8.82	
on 19 LLUCO	Electricity Conductivity	µmho/cm	1944	1998	
on 10 Luco	Alkali matter UCON POLLUZ N POLLUCON	mg/kg	1100N P 580 ON POLL	624	
on Pallucon	Cation Exchange Capacity	meq/100 gm	13.02	12.64	
12	Sodium Absorption Ratio	POLLUCON POLLUCON POLLUCON P PLLUCON POLLUCON POLLUCON POL POLLUCON POLLUCON POLLUCON P	11.4	N POLLUCION POLL	
13 Luco	Organic Matter	polluc mg/kg con pol	0.68	0.61	
ON 14 LUCC	Available Nitrogen	meq/100 gm	0.77	0.54	
N POLICON	Available Potassium	mg/kg	6.84	7.52	
16	Available Phosphorus	mg/kg	0.96	0.78	
17 LUCON	Available Sodium	mg/kg	10.68	11.2	
18	Permeability	cm/sec	1.08 x 10 ⁻⁷	1.2 x 10 ⁻⁷	

Observation From the above results it is concluded that there is No Significant Changes in the Quality of Soil Quality.



Authorized Signatory

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

GPCB apprved schedule II auditor

● ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO 9001



SOIL QUALITY RESULTS OF NEAR LT CANTEEN PARKING TABLE-1.30B:

SR. NO.	OLUCON POLLUCON POLLU	UCON POLLUCON POLLUCON POLLUCON POLLUCON POLLUCON POLLUCON UNIT	NEAR LT CANTEEN PARKING		
ON POLLUCON	OLLICON POLLUCO PARAPIETERS CON POLLUCON POLLUCO	LICON POLLUCON CHARLON POLLI LLUCON POLLUCON POL	JCON POLLUCON POLLUCO LUCON POLLUCON POLLUC	ON POLLUCON POLLUCO	
ON POLLUCON P	Type N POLLUCON POLLU	LLUCON POLLUCON POLLUCON POL LICON POLLUCON POLLUCON POLLUCON	Sandy Loam	Sandy Loam	
Grain Size	Analysis Lucon Pollucon Pollucon Pollucon Pollucon	LLUCON POLLUCON POLLU	LUCON POLLUCON POLLUCO	CON POLLUCON POLLUCION POLLUCION POLLUCON POLLUCION POLL	
N POLIZICON PO CON POLLUCON	Gravel POLLUCON POLLUCON POLLUCON POL	LUCON POLLUCON POLL	ICON POLL 1.4N POLLUCO	N POLLUCON POLUCON POLLUCON POLUCON POLLUCON POL	
n POLLUCON POLLUCON POLLUCON POLLUCON PO	Coarse Sand	LLUCON POLLUCON % LUCON PO	LUCON PO 8.4 ON POLLU	7.9	
ON POLLUCON PO	Medium Sand POLLUCON POLLUC N	LLUCON POLLUCON 6/6 JICON POLLUCON PC1	N POLLUCO	ON POLLUC25 POLLUC	
ON POLLUCON POLLUCON POLITICON POLITICON POLITICON PO	Fine Sand con pollucon polluc N polluc	LLUCON POLLUCON PO	ECON POLLICON POLLUCO	POLLUCO 42	
N POLIGICON PO	Total Sand ON POLLUCON POLLUC N POLLUCON POLLUCO	LLUCON POLLUCON PO	ICON POLIL 75 ^N POLLUCO	POLLUCO 76 POLLUC	
ON POLLUCON PO	Silt + Clay	w ucon ro	LUCON PO 25 ON POLLUC	24	
ON POLLUCON PO	pH (1:5) LUCON POLLUCON POLLUC	EBUCCON POLLUCON POLU	8.68 POLICE	8.65	
N POLUCON	Electricity Conductivity	ucon pulluc µmho/cm	ICON POLITICON POLITICO	1854	
N POL10CON POLICON	Alkali matter Pollucon Polluco	mg/kg	ICON POLL 536 POLLUCO	568	
ON PALUCON P	Cation Exchange Capacity	meq/100 gm	12.58	13.47	
ON 12 LICON	Sodium Absorption Ratio	LLUCON POLLUCON POLLU	9.82 POLLUC	10.54	
N POLUCON N POL13 ON P	Organic Matter	mg/kg	0.44	0.48	
14	Available Nitrogen	meq/100 gm	0.63	0.67	
on p15 ucon	Available Potassium	mg/kg	8.01 POLLUC	7.39	
ON P16-UCON	Available Phosphorus	mg/kg	0.85	0.73	
17 n	Available Sodium	mg/kg	11.36	9.84	
18 N P	Permeability	cm/sec	1.58 x 10 ⁻⁷	1.40 x 10 ⁻⁷	

From the above results it is concluded that there is No Significant Changes in the Quality of Soil Quality.



Authorized Signatory

Recognised by MoEF, New Delhi Under

• GPCB apprved
Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor ● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under



ANNEXURE-5

Copy of ISO Certificates



CERTIFICATE OF APPROVAL

Issued by Indian Register Quality Systems
(A Division of IRCLASS Systems and Solutions Private Limited)

This is to certify that the Environmental Management Systems of

Organisation: Adani Hazira Port Limited

Address: P.O. Hazira, Tal: Choryashi,

Dist. Surat - 394 270

has been assessed and found conforming to the following requirement

Standard: ISO 14001:2015

Scope: Providing Port Facilities for Handling and

Storage of Bulk, Liquid and Containerized

Cargo

Certificate No.: IRQS/220301168

Initial Certification Date: 28/10/2013

Current Date of Granting: 26/10/2022

Expiry Date: 25/10/2025







Shashi Nath Mishra Head IRQS

This approval is subject to continued satisfactory maintenance of the Environmental Management Systems of the organization to the above standard which will be monitored by IRQS. The use of the Accreditation Mark indicates accreditation with respect to activities covered by the certificate with accreditation no. C071. Condition Overleaf

COA/IRQS/RvA/EMS/Rev 00

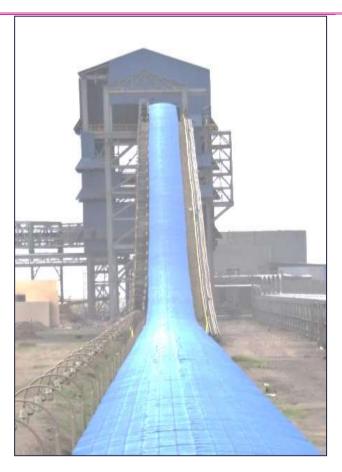
Head Office: 52A, Adi Shankaracharya Marg, Opp.Powai Lake, Powai, Mumbai - 400 072, India.



ANNEXURE-6

Photographs of Air Pollution Control Measures and Green Belt Area







Wind Shield



Closed Conveyor

Mist Canyon for Dust Suppression



Dust Suppression System Installed in Conveyor System





Coal Chute point having water Sprinkling System



Water Sprinklers installed for Dust Suppression





Road Sweeping Machines



Dry Bulk Cargo Covered with Tarpaulin to avoid dust generation





<u>Coal Transporting Trucks Covered with Tarpaulin to avoid dust generation</u>













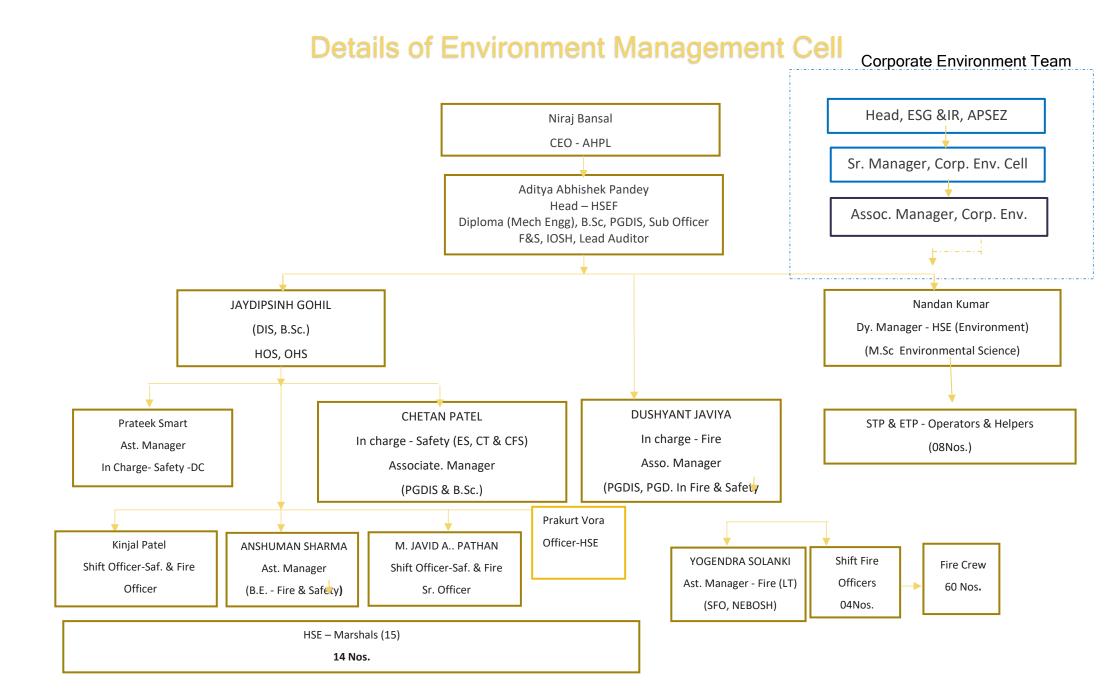






ANNEXURE-7

DETAILS OF ENVIRONMENTAL MANAGEMENT CELL



Annexure 8
Environmental Budget and Expenditure of Compliance Period

Sr No	Activities	Budget for FY 2023-24	Expenditure
31 110	Activities		· ·
		(FY24 till S	
	T	(In Lacs INR)	(In Lacs INR)
1	Legal and Statutory Charges	10	0.091
2	Environmental Monitoring Services	19.91	7.9
3	Hazardous Waste Management	33.48	2.5
	Horticulture Development –Greenery and		
4	Plantation	149	78.01
	Manpower Sewage Treatment Plant and		
5	Effluent Treatment Plant	26.62	9.64
6	Disposal of Bio medical Waste	1.8	0.87
7	Water Sprinkling for dust suppression	250	94.43
	Miscellaneous Environmental Initiatives and		
8	Salary of Environmental Professionals	20	9.75
9	Installation of CAAQMS	78	71.25
10	Upgradation of Sewage Treatment Plant	140	128
	IMS including ISO 14001:2015 (EMS) audit,		
11	certification, and internal audit training	4	0
	Total	732.81	402.441

Expenditure of last three Years

Year	Budget	Expenditure (In Lacs INR)
2020-21	479.63	418.11
2021-22	571.80	443.70
2022-23	550.04	471.69



Annexure 9

Form V Environment Statement FY 2022-23



Ports and Logistics

AHPL/GPCB/2023-24/04

Date: 28.06.2023 GPCB ID: 35352

ì

To

The Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector-10A,
Gandhinagar-382 010 (Gujarat)

Dear Sir,

Ref.:

I. Consolidated consent and authorization (CC&A) vide consent order no. AWH-118804,

18.05.2022 valid up to 12.07.2027

Sub.:

Environmental Statement in Form-V for the financial year 2022-23 of M/s. Adani Hazira Port

Ltd.

Sir,

With reference to above subject matter, please find enclosed herewith Environmental Statement - Form-V prescribed under *Rule, 14 of the Environment (Protection) Rules, 1986* of M/s. Adani Hazira Port Ltd., At & PO: Hazira, Taluka: Choryasi, District: Surat (Gujarat) for the financial year 2022-23.

This is for your kind reference and record please.

Thanking You,

For Adani Hazira Port Ltd.

(Niraj Bansal)

CEO-AHPL

Encl.: - Environmental Statement in Form-V for the Financial Year: 2022-23

Cc to: - The Regional Officer, Gujarat Pollution Control Board, Plot No:11-12/2,3. GIDC-Pandesara Surat-394221. Telephone: (0261) 2442696, 2411192. Fax: (0261) 2429733. Email: ro-gpcb-sura@gujarat.gov.in

FORM - V

(See Rule 14)

Environmental Statement for the Financial Year ending 31st March, 2023

PART - A

(i)	Name and address of the Owner/ Occupier of the Industry Operation or Process	:	Niraj Bansal, Chief Executive Officer, M/s. Adani Hazira Port Ltd., At & Post: Hazira, Taluka: Choryasi, District: Surat (Gujarat)
(ii)	Industry Category	:	Red - Large
	Primary (STC Code)		Not Applicable
	Secondary (STC Code)		Not Applicable
(iii)	Production Capacity	:	57.7 MMTPA
			(Total Cargo Handling Capacity)
(iv)	Year of Establishment	:	2010
(v)	Date of Last Environment Statement Submitted	•	30 th June 2022

<u>PART - B</u> <u>Water and Raw Material Consumption</u>

(i) Water Consumption:

Water Consumption Cu. Mtr./Day				
Process Approx. 1859.51 m³/day in Firefighting, Dust Suppression,				
Cooling	Sprinkling Washing Activities, and horticulture etc.			
Domestic Approx. 166.53 m³/day in Domestic Purpose				

Name of Products	Process Water Consumption Per Unit Of Product Output				
	During the Previous Financial Year	During the Current Financial Year			
Handling and Storage of General Dry Cargo, Liquid Cargo and Containers*	the FY: 2021-22 is 615045.19 m³ in the Dust Suppression, Fire Fighting,	Total Water Consumption during the FY: 2022-23 is 739506.78 m³ in the Dust Suppression, Fire Fighting, Cooling, LT - Washing Activities, Horticulture and Domestic purpose etc.			
	The Water consumption per unit of cargo handling is 0. 0.0247 m³/MT.	The Water consumption per unit of cargo handling is 0. 0.0292 m³/MT.			

* The Unit does not carry out any manufacturing process. The water consumed was mainly in Firefighting, Dust Suppression, Water Sprinkling, Washing Activities and Horticulture & Domestic Purpose etc.

(ii) Raw Material Consumption:

Name of Days	Name of	Consumption of Raw Material per Unit of output		
Name of Raw Material	Name of Products	During the previous During the current Financial Year Year		
Not Applicable	Not Applicable	Not Applicable	Not Applicable	

^{*} Unit does not carry out any manufacturing process.

PART - C

Pollutants discharged to Environment/Unit of Output (Parameters as specified in consent issued)

Pollutants	Quantity of pollutants discharged (Mass/day)	Concentrations of pollutants in discharges (Mass/Volume)	Percentage of variation from prescribed standards with reasons	
(a) Water		Nil*		
(b) Air	 DG sets are provided as standby power source and used during power failure. The height of DG stacks as per CPCB/GPCB standards. All the monitored parameters are found within prescribed limits. 			
Particulate Matter (mg/Nm³)	DG set emission report is enclosed as Annexure-1. Nil		Nil	
Sulphur Dioxide (ppm)			Nil	
Nitrogen Oxide (ppm)			Nil	

* The Unit does not carry out any manufacturing process, as it is a service industry i.e. Port engaged in Handling and Storage of General Dry Cargo, Liquid Cargo and Containers. The source of effluent/ wastewater generation is washing activities of liquid tanks, pipelines and floor washing during any spillage and/or leakage of liquid cargo and other domestic activities. During the Financial Year: 2022-23. There is no discharge of treated effluent / water discharged to the environment. All the treated Effluents and Sewage are utilized in horticulture purpose.

There was approx. 83.26 KL/Day Sewage Generation. The sewage was treated in the Sewage Treatment Plants (STP's) and treated water confirming to prescribe standards was reused in gardening and plantation activities. There was approx. 87.30 KL/Day of Effluents generation, and all

of the generated effluents were treated in Effluents Treatment Plant and utilized in Horticulture Purpose.

PART - D

Hazardous Wastes

(as specified under Hazardous waste (Management and Handling) Rules, 2016

Hazardous Wastes	Total Quantity (Kg.)					
nazardous vvastes	During the Previous Financial Year	During the Current Financial Year				
a) From Process	Quantity of Hazardous Waste generated is given below:	Quantity of Hazardous Waste generated is given below:				
	Cat3.2: 87730 Kg. of cargo residue containing chemicals.					
	Cat3.3: 1090 Kg. of Used Oil Filters.	Cat3.3: 375 Kg. of Used Oil Filters.				
	Cat 3.4: 4200 Kg of Bilge water Containing oils	Cat-33.11: 12750 Kg of contaminated empty				
	Cat-33.11: 2960 Kg of contaminated empty barrel	barrel Cat 33.2: 4000 Kg of oily Cotton rags				
	Cat 33.2: 5850 Kg of oily Cotton rags	Cat5.1: 162370 Kg. of Used/Spent Oil.				
s s		Cat5.2: 112760 Kg. of Oil				
	Cat5.1: 19440 Kg. of Used/Spent Oil.	Contaminated Foam Pigs.				
	Cat5.2: 18830 Kg. of Oil Contaminated Foam Pigs.					
	Cat 35.1: 2400 Kg of gas cleaning residues CMS.					
b) From Pollution Control facilities	Nil	Nil				

PART - E Solid Waste

				Total Quantity (MT/Annum)		
Solid Waste				During the Previous Financial Year	During the Current Financial Year	
(a)	From Pro	cess (Ash)				
(b)	From	Pollution	Control			

facilities		
(C-1) Quantity recycled or reutilized within the unit	5.772 MT (Kitchen & Food Waste was Converted in to Manure through Organic Waste Converter)	5.560 MT (Kitchen & Food Waste was Converted in to Manure through Organic Waste Converter)
(C-2) Sold		
(C-3) Disposed	Approx. 222.14 MT (Garbage Wastes) processed through Solid Waste Management Facility of Surat Municipal Corporation	Approx. 211.680 MT (Garbage Wastes) disposed off through waste management agencies.

Note: Scrap is collected in designated scrap yard at Central Store and sold to scrap vendor.

PART - F

Please specify the characterization (in terms of Composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

- Total quantity hazardous waste disposed off during the financial year 2022-23 is approx. 426.895 MT.
 Out of which 150.97 MT of Incinerable hazardous waste was disposed off through GPCB authorized
 CHWIF M/s Saurashtra Enviro Projects Pvt Ltd Kutch. Approx. 103.67 MT of co processable hazardous
 waste are sent to GPCB registered Preprocessing facility M/s Eco Waste Management, Himmat
 Nagar.
- Approx. 162.37 MT Used/Spent Oil/Bilge Water were generated (including opening were sold out to GPCB registered recycler/refiners. The Waste Oils were stored in barrels in hazardous waste storage shed.
- Approx. 12.75 MT Empty Paint Drums/Tins were sold out to GPCB registered recycler at M/s Jawrawala Petroleum Ahmedabad.
- Oily Cotton rags were generated from various maintenance and operational activities, which were kept in covered hazardous waste storage area. 4.0 MT of oily cotton rags Wastes were disposed off through GPCB authorized CHWIF Saurashtra Enviro Projects Pvt Ltd Kutch and Eco Waste Management Preprocessing facility. 112.76 MT of Oil contaminated Foam pigs was disposed off through GPCB authorized CHWIF Saurashtra Enviro Projects Pvt Ltd Kutch and Eco Waste Management Preprocessing facility at Himmatnagar.
- Used Oil filters of 0.375 MT was disposed off through GPCB authorized CHWIF Saurashtra Enviro Projects Pvt Ltd Kutch
- Cargo residue containing chemicals of 134.64 MT was disposed off through GPCB authorized CHWIF Saurashtra Enviro Projects Pvt Ltd Kutch

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production: -

- Unit has installed Sewage Treatment Plants of 75 KLD capacity and Effluent Treatment Plant (ETP)
 of 90 KLD Capacity for treatment of the Sewage water and Effluent being generated at site. The
 treated water is being reused within port premises.
- Unit has installed Organic Waste Converter (OWC) to convert the organic wastes into organic manure i.e.: Kitchen/Food Waste and Horticultural Waste being generated at site. The manure is being reused within port premises.
- M/s. AHPL has developed mangrove afforestation on an area 200 hectares i.e.: 20 hectares near Village: Kantiyajal, Sea coast area and 180 hectares near Village: Nada-Devla, District: Bharuch (Gujarat).
- M/s. AHPL has developed a Bio-Shield Pilot Project on an area of 18 hectares at near Village: Tankari Bandar, Taluka: Jambusar, District: Bharuch (Gujarat).
- The Unit has been used recycled water i.e. treated sewage of KRIBHCO for industrial used which caters more than 80% of total water consumption.
- The Unit has installed Photo voltaic Solar Panel of 3.5 MW and reduced its grid Power consumption and 2 MW of Wind mills at Rojmal near Rajkot for renewal energy generation.
- During the financial year: 2022-23, the total cost incurred on environmental protection measures is enclosed as **Annexure-2**.

PART - H

Additional measures /investment/ proposal for environmental protection including abatement of pollution, prevention of pollution.

 Unit is carrying out regular environmental monitoring within the Port and surrounding area through reputed MoEF&CC and NABL accredited laboratory. All the environmental parameters are found well within specified limits and the details of monitored data is regularly submitting to GPCB, CPCB, MoEF&CC and other concerned authorities.

- Unit has installed STP's and ETP for the treatment of the domestic waste water and effluent being generated at site and the treated water is being used for horticulture (plantation & gardening) purpose. Unit has also provided dump pond and conveyance channel for collection of runoff generated from Coal Yard.
- Unit has provided sprinklers at coal yard & conveyer system and carrying out regular water spreading to control the dust exposure. Wind breaking shield is provided around the periphery of Coal Yard.
- Unit has a dedicated horticulture department & developing green belt within port premises.
- Unit uses mist canon to suppress the fugitive coal dust at coal yard.
- Unit has deployed four road sweeping machines to control the fugitive dust emissions.
- Unit has installed wind break shield around coal yard and Rock Phosphate Yard to suppress dust emission.
- Unit has laid 1.7 km of closed conveyor system having dust suppression system for handling of coal from Jetty to coal yard.
- Unit has laid approx. 17 km of underground of pipeline for receiving treated wastewater from KRIBHCO and all the industrial requirement of water is being fulfilled through the recycled water.
- Unit has developed greenbelt area of 78.49 hectare till March, 2023.

PART - I

Any other particulars for improving the quality of environment:

- Trainings on Environment Management and Waste Management were organized for employees, associates and contractual workers.
- Environmental awareness programs have been conducted during the year for employees, contractual employees, school children and local community of nearby villages.
- Integrated housekeeping management is undertaken on top priority to maintain neat and clean working environment in the port premises.
- World Environment Day and other important environment related days are being celebrated to raise awareness among employees, associates and contractor's workmen, The participants of the programs organized on these days were motivated by providing prizes and certificates.
- The Port has initiated "Single Use Plastic Free Port" initiative and Confederation of Indian Industry has been engaged for certifying the protocol and implementation of the same.

- The Port has an ISO 14001:2015 certified system for Environment Management System, ISO 19001:2015 certified system for Quality Management System, ISO 45001: 2018 certified system for Occupational Health and Safety Management System and ISO 50001: 2018 certified system for Energy Management System.
- 200 ha of Mangrove plantation and 18 ha of Bio shield development carried out in Tankari Village of Jambusar taluka, district- Bharuch, Gujarat and these are being maintained and monitored through one NGO and SHG.

Date: 28.06.2023

(Authorized Signatory)

Name:

Niraj Bansal

Designation:

Chief Executive Officer (CEO)

Address:

At & Post: Hazira, Taluka: Choryashi,

District: Surat (Gujarat)

ANNEXURE-1

DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -

Note: DG sets are provided as standby power source and used during power failure.



4G. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -Table-1.25: DG Sets Stack Monitoring Results for the period: October - 2022 to March - 2022

Table-1.25 (a): DG Sets Stack Monitoring Results:

Sr.	Parameters	Umit -	DG SET TOYO DENKI -1		DG SET TOYO DENKI -2	
No.			28/11/2022	20/02/2023	28/11/2022	20/02/2023
1	Particulate Matter	mg/Maxi ^a	24,53	28.61	28.67	24.2
2	Sulphur Dioxide	ppm	4.51	7.8	6.49	8.37
3	Oxide of Nitrogen	ppm	34.23	38.56	36.19	33.67
4	Carbon Monoxide (CO)	mg/m³	23.39	28.05	22.9	25.39
5	Non Methyl Hydro Carbon (NMHC)	mg/m³	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.25 (b): DG Sets Stack Monitoring Results:

5r.	Parameters	Unit	DG SET TOYO DENKI -3		SS-1 LT DG -320 KVA	
No.			28/11/2022	28/11/2022	28/11/2022	20/02/2023
1	Particulate Matter	mg/Nm³	30.62	27.52	27.52	24.2
2	Sulphur Dioxide	ppm	7.55	7.41	7.41	8.37
3	Oxide of Nitrogen	ppm	38,67	38.3	38.3	33.67
4	Carbon Monoxide (CO)	mg/m³	25.77	11.68	11.68	25.39
5	Non Methyl Hydro Carbon (NMHC)	mg/m²	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.25 (c): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	553 -DG -200 KVA		LT Phase -1 (625 KVA)	
			28/11/2022	21/02/2023	29/11/2022	21/02/2023
ı	Particulate Matter	mg/Nm³	26.81	23.55	38.41	36.23
2	Sulphur Diaxide	ppm	8.21	6.32	6.47	5.16
3	Oxide of Nitrogen	ppm	30.47	32.61	34.28	36.28
4	Carbon Mondidde (CO)	mg/m³	10.99	11.68	18.9	21.07
5	Non Methyl Hydro Carbon (NMHC)	mg/m³	Not Detected	Not Detected	Not Detected	Not Detected



●FSSAI Approved Leb ● Recagnised by Mc42. New Belin Under
Sec. 12 of Environmental (Protection) Acc-1986

■ GPCB approved → ●150 [4847] : 2864 ●-O-ESAS 18001 : 2007 ●180 9601 : 2008 exhedde B saddistr

"Pollucon House", Plot No.576, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Sural-395007, Gujanat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com



Table-1.25 (d): DG Sets Stack Monitoring Results:

Sr. Mo.	Parameters	Unit	LT Phase -2 (750 KVA)		ER-1 (100 KVA)	
			29/11/2022	21/02/2023	29/11/2022	21/02/2023
1	Particulate Matter	mg/Nm³	32.56	39.59	26.52	28.54
2	Sulphur Diaxide	ppm	7.68	8.16	5.02	6.56
3	Oxide of Nitrogen	ppm	36.46	38.71	31.55	29,59
4	Carbon Monoxide (CO)	mg/m ^à	21.19	18.9	16.25	17.41
5	Non Methyl Hydro Carbon (NMHC)	mg/m²	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.25 (e): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	NDG Building (380 KVA)		Custom Building (320 KVA)	
			29/11/2022	21/02/2023	29/11/2022	20/02/2023
1	Particulate Matter	mg/Nm²	36.24	31.55	32.48	35.43
2	Sulphur Dlaxide	ppm	5.08	4.91	6.49	7.31
3	Chide of Nitrogen	ppm	35.33	33.44	34.5	30.5
4	Carbon Monovide (CO)	mg/m³	15.35	16.61	14.43	15.57
5	Non-Methyl Hydro Carbon (NMHC)	mg/m²	Not Detected	Not Detected	Not Detected	Not Detected



Authorized Signatory

● ISO 14001:2004 ● CESSAS 18001:2007 ● ISG 9001:2008

"Pollucon House", Plot No.5/5, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Sural-325067, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.nolluconlab.com, E. mail: colluconlab.com, infection/uponlab.com



Table-1.26: DG Sets Noise Level Monitoring Results for the period: October - 2022 to March - 2022

Sr. No.	DG Set Average Noise Level In Leq. dB(A)				
	Sampling Location	At 1 M Distance From The Enclosure			
	Sampling Date	28 & 29/11/2022	20 & 21/02/2023		
1.	DG SET TOYO DENKI - 1	71.6	70.2		
2.	DG SET TOYO DENKE - 2	69.5	65.8		
3.	DG SET TOYO DENKI -3	67.1	69.0		
4.	SS-1 LT DG -320 KVA	70.3	65.7		
5.	SS3 -DG -200 KVA	64.2	60.1		
6.	LT PHASE -1 (625 KVA)	68.1	55.2		
7.	LT PHASE -2 (750 KVA)	63.9	63.9		
8.	ER-1 (100 KVA)	67.7	64.2		
9.	NDG BUILDING (380 KVA)	59.5	56.1		
10.	CUSTOM BUILDING (320 KVA)	72.9	64.9		



Authorized Signatory

SSAI Approved Lab

** Seconstitute by Motif. New Delta Under

** SPCB approved

** SPCB approved

"Pollucon House", Piot No.515, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Sural-325007, Gujarat, India.

ne : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

ANNEXURE - II

Environment Budget & Expenditure of FY 2022-23

Sr No	Activities	Budget for FY 2022-23	Expenditure (FY23)	
		(In Lacs INR)	(In Lacs INR)	
1	Environmental Study/Audit/Survey/Consultancy Services	32	19.28	
2	Legal and Statutory Charges/Newspaper advertisement	10	9.45	
3	Environmental Monitoring Services	21.04	16.56	
4	Hazardous Waste Management	33.2	18.30	
5	Horticulture Development – Greenery and Plantation	169	167	
6	Manpower Sewage Treatment Plant and Effluent Treatment Plant	10	9.80	
7	Disposal of Bio medical Waste	1.8	1.8	
8	Water Sprinkling for dust suppression	250	210	
9	Miscellaneous Environmental Initiatives and Salary of Environmental Professionals	20	18	
10	ISO 14001:2015 (EMS) audit, certification, and internal audit training	3	1.5	
4	Total	550.04	471.69	

Expenditure of last three Years

Experience of face times reare			
Year	Budget	Expenditure (In Lacs INR)	
2019-20	363.80	326.76	
2020-21	479.63	418.11	
2021-22	571.80	443.70	

į ,