

From: Nandan Kumar
Sent: Wednesday, November 27, 2019 5:44 PM
To: rowz.bpl-mef@nic.in
Cc: mefcc.ia3@gmail.com; monitoring-ec@nic.in; chairman-gpcb@gujarat.gov.in; westzonecpcb@yahoo.com; brnaidu.cpcb@nic.in; ro-gpcb-sura@gujarat.gov.in; Shalin Shah; Rupesh Jambudi; Harsh Yadav
Subject: Submission of Six monthly Environment & CRZ clearance Compliance Report April 2019-September 2019, Adani Hazira Port Private Limited
Attachments: EC Comp report Apr -Sept 2019 Adani Hazira Port.pdf

Dear Sir,

This has reference to submission of Six Monthly Environment & CRZ Clearances Compliance Report for Adani Hazira Port Private Limited . Please find attached herewith point wise compliance report of conditions stipulated in the below referred letters for the period of April 2019 to September 2019;

Reference:

- 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.

Sincere Regards,

Nandan Kumar

Dy.Manager – HSE (Environment) | Adani Hazira Port Pvt Ltd

Mob +91 6359897581 | (Extn : 61531) | nandan.kumar@adani.com | www.adani.com

At & PO - Hazira, Choryasi, Surat 394 270, Gujarat, India





Adani Hazira Port Private Limited

**From : April, 2019
To : September,
2019**

SIX MONTHLY COMPLIANCE REPORT
OF
ENVIRONMENT 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 PVT. LTD.

LIST OF APPENDIXES

APPENDIX NO.	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 NO.	DETAILS
1.	Ammended Consent to Establish issued by GPCB
2.	Action Plan And Compliance Status On The Issues Raised During The Public Hearing.
3.	Details Of The CSR Activities Along With Budgetary Provisions And Expenditures For The Financial Year: 2019-20.
4.	Environmental Monitoring / Analysis Results For The Period From April 2019 to September 2019
5.	Compliance Status Of Environmental Management Plan As Per Integrated EIA Report - September, 2012.
6.	Organogram Of AHPPL - Environment Management Cell.
7	Details Of Environment Management Budget For The Financial Year: 2019-20
8	Copy of renewed Public Liability Insurance
9	Copy of renewed PESO Licence
10	Copy of renewed Factory Licence
11	Details of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved Third Party During period April 2019 to September 2019
12	Form V Environment Statement FY 2018-19
13	Copy of ISO 9001:2015, 14001:2015, 48001:2018, 50001:2018 Certificates

- 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 Pvt. Ltd.: -

S. No.	Stipulated Conditions	Compliance Status																		
6.	Specific Conditions																			
i.	“Consent for Establishment” shall be obtained from State Pollution Control Board under Air & Water Act and a copy shall be submitted to the Ministry before start of any construction work at site.	<p>Complied, AHPPL has obtained Consent to Establish (NOC) from Gujarat Pollution Control Board on 05.10.2012 and same was submitted on 16.05.2012 prior to obtaining the Environment and CRZ clearances. Subsequently there were amendments in the Consent to Establish which were also submitted to the MoEF&CC before start of respective construction as per the details given below: -</p> <table border="1"> <thead> <tr> <th>Consent No.</th><th>Issued On</th><th>Submitted To MoEF & CC On</th></tr> </thead> <tbody> <tr> <td>CTE_49766</td><td>05.10.2012</td><td>Along with Six Monthly Compliance Report dated 19.11.2014 & 19.05.2017.</td></tr> <tr> <td>CTE-64900</td><td>26.09.2014</td><td>Along with Six Monthly Compliance Report dated 12.05.2015 & 19.05.2017.</td></tr> <tr> <td>CTE-74330</td><td>13.01.2016</td><td>Along with Six Monthly Compliance Report dated 23.05.2016 & 19.05.2017.</td></tr> <tr> <td>CTE-77767</td><td>16.04.2016</td><td>Along with Six Monthly Compliance Report dated 21.11.2016 & 19.05.2017.</td></tr> <tr> <td>CTE-101590</td><td>20.05.2019</td><td>Attached herewith as Annexure-1</td></tr> </tbody> </table>	Consent No.	Issued On	Submitted To MoEF & CC On	CTE_49766	05.10.2012	Along with Six Monthly Compliance Report dated 19.11.2014 & 19.05.2017.	CTE-64900	26.09.2014	Along with Six Monthly Compliance Report dated 12.05.2015 & 19.05.2017.	CTE-74330	13.01.2016	Along with Six Monthly Compliance Report dated 23.05.2016 & 19.05.2017.	CTE-77767	16.04.2016	Along with Six Monthly Compliance Report dated 21.11.2016 & 19.05.2017.	CTE-101590	20.05.2019	Attached herewith as Annexure-1
Consent No.	Issued On	Submitted To MoEF & CC On																		
CTE_49766	05.10.2012	Along with Six Monthly Compliance Report dated 19.11.2014 & 19.05.2017.																		
CTE-64900	26.09.2014	Along with Six Monthly Compliance Report dated 12.05.2015 & 19.05.2017.																		
CTE-74330	13.01.2016	Along with Six Monthly Compliance Report dated 23.05.2016 & 19.05.2017.																		
CTE-77767	16.04.2016	Along with Six Monthly Compliance Report dated 21.11.2016 & 19.05.2017.																		
CTE-101590	20.05.2019	Attached herewith as Annexure-1																		
ii.	The action plan on the issues raised during public hearing shall be submitted to the Pollution Control Board. The action plan shall be implemented without fail. Report on compliance shall be submitted to the Regional Office, MOEF along with the six monthly reports.	<p>Complied Public hearing was conducted on 14.08.2012. All the issues have been addressed adequately and to the satisfaction of the stakeholders. The key points raised during PH were: -</p> <ol style="list-style-type: none"> 1) Preference to be given to the local people for employment and transport & other contracts. M/s. AHPPL is giving preference to the locals for contracts, such as M/s. Hazira Vikas Samiti has been engaged for providing transport facilities for employees. M/s. AHPPL also giving preference for skilled local candidates for employment as per suitable requirements. As on 30th September, 2019 total 207 out of 242 on roll employees are from Gujarat. 2) Villagers were anxious about their displacement due to port development. M/s. AHPPL is developing port on approx. 873.27 hectares which is uninhabited and there is no acquisition of private property. The details action status of all other issues raised during the public hearing is enclosed as 																		

S. No.	Stipulated Conditions	Compliance Status
		<u>Annexure-2.</u>
iii.	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 <u>Appendix-1.</u>
iv.	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.	Complied. Shoreline change study was conducted by 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 nearby shoreline except for the approved layout of the AHPPL. The report did not warrant any mitigation measures. There are no marine construction activities on shore after Dec, 2016.
v.	Oil spills if any shall be properly collected and disposed as per Rules. Proper Oil Contingency Management Plan shall be put in the place.	Complied. <ul style="list-style-type: none"> • Till date no oil spill has occurred. • Oil Spill Contingency Plan has been prepared and the same was approved / vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014). • The same has been implemented at site in order to properly collect and dispose oil spills (if any).
vi.	The detailed plan with budgetary provisions for the CSR shall be submitted to the ministry.	Complied. <ul style="list-style-type: none"> • CSR activities are 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. • The status of the CSR activities carried out during April 2019 to September 2019 is enclosed as <u>Annexure-3.</u>
vii.	All the recommendation of the EMP and DMP shall be complied within letter and spirit.	Complied. <ul style="list-style-type: none"> • Recommendation given in EMP is being complied in letter and spirit. Status of the same is enclosed as <u>Annexure-5.</u> • AHPPL is an ISO 14001: 2015, ISO 9001:2015, ISO 48001: 2018 and ISO 50001: 2018 certified company. Copy of Certificates enclosed as Annexure 13 • AHPPL has developed and implemented DMP. Regular mock drill to ensure the compliance and preparedness is being done. <ul style="list-style-type: none"> • Last Mock Drill (On Site) was on:

S. No.	Stipulated Conditions	Compliance Status
		<u>30.09.2019</u> <ul style="list-style-type: none"> Last Update of ERP & DMP : <u>30.05.2019</u> Copy of the Schematic of ERP & DMP communication flow is submitted along with the six monthly compliance report dated <u>19.05.2017</u>.
viii.	Periodical monitoring of the sea water quality at the outlet shall be carried out to check the discharge is meeting the standard and not causing any impact to marine life.	Complied. <ul style="list-style-type: none"> AHPPL is not discharging any effluent into the sea. There are no standards prescribed for the sea water quality. Only trends can be observed to ensure that quality of sea water is not changing significantly. Marine water quality is being monitored through M/s. Pollucon Laboratories, Surat (a MoEF&CC recognized and NABL accredited laboratory). Monitoring of sea water quality at three locations is being done on monthly basis. Copy of the Sea Water Quality Monitoring /Analysis Reports for the period April, 2019 to September,2019 is enclosed as <u>Annexure-4D</u>. From the monitoring report it is evident that there is no significant change in the sea water quality which could have impact on the marine life.
ix.	Transport of cargo shall in closed system and dust control viz. water sprinkler, along conveyor and transfer points shall be provided.	Complied. <p>Following control measures are in place and effectively working at port to control fugitive dust: -</p> <ol style="list-style-type: none"> 1. 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, 3. Dust arresting sprinklers are installed on Coal Discharge Chute 4. Dust Suppression System / Spray Nozzles in Conveyor System and Discharge Chute, 5. Water spray through Water Browsers, 6. Water Mist Canon / Fog System, 7. Wind Brake Shield of 14 meters high and 1200 meters long, 8. Transportation of cargo from port to hinterland is being done through dumpers / trucks covered with tarpaulin, 9. Regular cleaning the roads through Road Sweeping Machines, and 10. Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 69.8 ha within the port premises.
x.	Construction activity shall be carried	Complied.

S. No.	Stipulated Conditions	Compliance Status
	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.	<ul style="list-style-type: none"> Construction activities are 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.
xi.	The project shall be executed in such a manner that there shall not be any disturbance to the fishing activity.	Complied. <ul style="list-style-type: none"> Project execution is being done without any disturbance to fishing activities. 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.
xii.	It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.	Complied. <ul style="list-style-type: none"> 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 AHPPL is regularly working with fishermen to understand their needs and provide required support.
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.	Complied. <ul style="list-style-type: none"> Environment Management Cell has been set up with qualified staff to ensure the effective implementation of environmental safe guards. In addition to the site Environment Management Cell a well-established corporate environment cell also ensures effective implementation of the environmental safeguards. Environment Management Cell Organogram is enclosed as <u>Annexure-6</u>. One more person has been recruited in Environment Management Cell, who is assisting the Head of Environment
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. <ul style="list-style-type: none"> Separate budget has been allocated to the HSE Department. Allocated budget for the FY: 2019-20 is INR 303.80 Lakhs but expenditure regarding environment

S. No.	Stipulated Conditions	Compliance Status
		<p>management is about INR 123.48/- Lakhs till September 2019</p> <ul style="list-style-type: none"> Detail of the environment budget and expenditure for the FY: 2019-20 is enclosed as <u>Annexure-7</u>. Environment budget is not being diverted to any other purpose.
7.	General Conditions	
i.	Appropriate measures must be taken while undertaking digging activities to avoid any degradation of water quality.	<p>Complied.</p> <ul style="list-style-type: none"> Digging activities are involved in the piling, construction of building and other ancillary facilities. Proper care is being given to ensure that no excavated material is mixed with the water. Entire excavated material is being used in leveling and grading of project area. Marine, Surface and Ground Water quality is being monitored through M/s. Pollucon Laboratories Pvt. Ltd., Surat (a MoEF & CC and NABL accredited laboratory). Reports show that there are no impacts on the water quality. Copy of the water monitoring reports for the period April, 2019 to September, 2019 is enclosed as Annexure-4B, 4C, 4D for ground, surface and marine water quality, respectively.
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.	<p>Being Complied</p> <ul style="list-style-type: none"> AHPPL 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. Last report was submitted vide letter No . AHPPL/MoEFF&CC 2019-20/007 dated 29.05.2019. Whenever any authorities such as MoEF&CC, GPCB and GMB etc. visit AHPPL, full support is extended and AHPPL provides all additional information seek by them during the inspection. Last visit by representative of MoEF & CC - RO, Bhopal was on 24th Oct, 2018 .
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.	<p>Being Complied</p> <p>Six monthly monitoring reports are regularly submitted to the RO - MoEF & CC, Bhopal and other authorities along with Six Monthly Compliance Report of Environment & CRZ Clearance. Please refer the <u>Annexure-4</u> for the monitoring report from April 2019 to September 2019</p>
iv.	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or	Noted and agreed to comply with additional conditions stipulated or modification in the existing ones by MoEF & CC, if any.

S. No.	Stipulated Conditions	Compliance Status
	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.	Noted and agreed to comply with the directions of the MoEF & CC, if any.
vi.	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to Ministry of Environment and Forests.	Noted. There is no change in project profile or implementation agency.
vii.	The project proponents shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.	Closed. 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.	A copy of the clearance letter shall be marked to concerned Panchayat/ Local NGO, if any from whom any suggestions/ representations has been received while processing the proposal.	Closed. 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.	State Pollution Control Board 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 M/s. AHPPL.
8.	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act 1986, the Public Liability (Insurance) Act 1991 and EIA notification 1994, including the amendments and rules thereafter.	Noted and Complying with 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 2006, including the amendments. AHPPL has obtained: - <ul style="list-style-type: none"> • 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-87176 valid till 14.04.2022. Public Liability Insurance vide Policy No.: 2999202761483000000 valid up to 31st

S. No.	Stipulated Conditions	Compliance Status
		March, 2020. Copy of Public Liability Insurance Policy is attached herewith as Annexure 8
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.	Complied. All applicable clearances from respective authorities have been obtained i.e.: - 1. PESO License from Chief Controller of Explosive, Nagpur vide Order No.: P/HQ/GJ/15/5294 (P270337), Renewed on 04.01.2019 valid till 31.12.2019. Copy of the PESO License is attached herewith as Annexure 9 2. License to work a Factory Adani Hazira Port Pvt. Ltd. (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat their vide Registration No.: 3502 / 51410 / 2013 and License No.: 18757, Renewed on 03-11-2018, valid till 23 rd December, 2023. Copy of the license to work a factory is attached as Annexure 10. 3. Civil Aviation: Not Applicable, 4. Forest Clearance: Stage 1 clearance obtained for forest land inclusion. 5. Wildlife Conservation: Not Applicable.
10.	The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environment and 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 Bhopal.	Closed. <ul style="list-style-type: none"> Advertisements were published in Gujarat News Paper "Gujarat Mitra" and English News Paper "The Times of India" on 13/05/2013 (within 10 days of receipt of EC & CRZ clearance). Copy of the advertisement is submitted to MoEF & CC along with the six monthly compliance report dated 27th November, 2013.
11.	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.: 460 of 2004 as may be applicable to this project.	Noted.
12.	Status of Compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in	Complied. Compliance report of conditions stipulated in Environment and CRZ Clearance is available on the company website i.e.:

S. No.	Stipulated Conditions	Compliance Status
	its website.	http://www.adaniports.com/ports-downloads
13.	Any appeal against this clearance 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.	Noted.
14.	A copy of the clearance letter shall be sent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any from whom suggestions/ representations if any, were received while processing the proposal. The Clearance letter shall also be put on the website of the company by the proponent.	Closed, <ul style="list-style-type: none"> Copy of the clearance letter was sent to the concerned Panchayat and local NGO from whom the suggestions/ representations received. Copy of the RPAD receipt is 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. Clearance letter is available on website at http://www.adaniports.com/ports-downloads
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 and submitted to: <ol style="list-style-type: none"> RO - MoEF & CC, Bhopal, MoEF & CC, New Delhi, DoEF, Gandhinagar, Zonal Office - CPCB, Vadodara, HO - GPCB, Gandhinagar, and RO - GPCB, Surat. Last report was submitted vide letter No. AHPPL/MoEFF&CC 2019-20/001 dated 29.05.2019.
16.	The Environmental Statement for each financial year ending 31 st 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: 2018-19 is submitted to GPCB vide letter No.: AHPPL/GPCB/2019-20/ O dated 15.07.2019 & also uploaded on company website at http://www.adaniports.com/ports-downloads . Form-V for FY: 2018-19 is attached as Annexure 12

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

APPENDIX-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 11TH MAY, 2012
FOR MODIFICATION / EXPANSION OF MULTI - CARGO PORT FACILITY AT HAZIRA, DIST. -
SURAT BY M/S. ADANI HAZIRA PORT PVT. LIMITED**

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 Pvt. Limited: -

S. No.	Conditions	Compliance Status
A.	Specific Condition	
1.	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.	Complied. <ul style="list-style-type: none"> Construction activities are 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.
2.1	M/s. AHPPL shall not construct any storage facilities for material / chemicals in the CRZ area except for those permissible as per Annexure - II of CRZ Notification 2011.	Noted. Only permissible activities being carried out in CRZ area.
2.2	Also for other hazardous chemicals, outside CRZ Areas, the AHPPL shall consult SDMA for Disaster Management Plan.	Complied. Disaster Management Plan has been prepared prior to the commissioning of multi cargo port. <ul style="list-style-type: none"> DMP has been submitted to GSDMA vide letter 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 : 30.09.2019 Last Update of ERP & DMP : 30.05.2019 Last submission to Directorate Industrial Safety & Health (DISH) on 30.05.2019
3.	All necessary permissions from different Government Departments / agencies shall be obtained by M/s. AHPPL before commencing the activities.	Complied. All the statutory permissions from the concerned statutory authorities are obtained i.e.: - <ol style="list-style-type: none"> Environment and CRZ Clearance from MoEF & CC, GOI vide order No.: F.No.:11-150/2010-IA-III dated 03.05.2013. PESO License from Chief Controller of Explosive, Nagpur vide order No.: P/HQ/GJ/15/5294 (P270337) renewed on 04.01.2019 valid till 31.12.2019. License to work a Factory Adani Hazira Port Pvt. Ltd. (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat their vide Registration No.: 3502 / 51410 / 2013

S. No.	Conditions	Compliance Status
		and License No.: 18757, Renewed on 03-11-2018, valid till 23 rd December, 2023
4.	The AHPPL shall ensure that there shall be no damage to the existing mangrove patches near the site and also ensure the free flow of water to avoid damage to the mangrove.	Noted and complied with. There are no adverse impacts on mangrove as well as flow of water with respect to development activities.
5.	No dredging, reclamation or any other project related activities shall be carried out in CRZ area categorized as CRZ-I (A) and it shall have to be ensured that the mangrove habitats and other ecologically important and significant areas, if any in the region are not affected due to any of the project activities.	Complied. All activities are being carried out as per Environment and CRZ clearance accorded.
6.	The dredging material shall be disposed of at the location already approved by the Ministry of Environment and Forests, Government of India.	Complied. As per communication from MoEF&CC dated 12 th November, 2003 bearing letter No.: J-16011/ 11/2003-IA-III 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 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 disposed of at the location already approved by the MoEF&CC.
7.	All the recommendations and suggestions given by M/s. NIO and Chalamandalam MS Risk Services Ltd, Chennai in their EIA reports for conservation / protection and betterment of environment shall be implemented strictly by M/s. AHPPL.	Complied. All the recommendations and suggestions for conservation/protection and betterment of environment are being implemented strictly. Recommendation given in EMP is being complied in letter and spirit. Status of the same is enclosed as <u>Annexure-3</u> .
8.	The construction and operational activities shall be carried out in such a way that there is no negative impact on mangroves, if any and other important coastal / marine / habitats. The construction activities shall be carried out only under the guidance / supervision of reputed institute / organization.	Complied. There are no mangroves and other important coastal / marine / habitats presents within the port area. The Port development work is supervised by Gujarat Maritime Board (GMB).
9.	M/s. AHPPL shall strictly ensure that no creeks or rivers are blocked due to any activity at Shipyard.	Complied. All the activities are carried out as per EC & CRZ clearance and no creeks are blocked due to development activities. Shipyard is not envisaged in our proposal.
10.	The construction debris and / or any	Complied

S. No.	Conditions	Compliance Status
	other type of waste shall not be disposed of into the sea, creek or in CRZ areas. The debris shall be removed from construction site immediately after the construction is over.	Construction debris removed from construction site immediately after completion of the construction work.
11.	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by construction labours.	Complied. No labour camps are located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.
12.	M/s. AHPPL shall prepare and regularly update their Local Oil Spill Contingency and Disaster Management Plan in consonance with National Oil Spill and Disaster Contingency Plan and shall submit the same to this department after having it vetted through Indian Coast Guard.	Complied. <ul style="list-style-type: none"> Oil Spill Contingency Plan has been prepared and the same was approved/ vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014). Disaster Management Plan has been prepared prior to the commissioning of multi cargo port. DMP has been submitted to GSDMA vide letter 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 : 30.09.2019 Last Update of ERP & DMP : 30.05.2019 Last submission to Directorate Industrial Safety & Health (DISH) on 30.05.2019
13.	M/s. AHPPL shall bear the cost of external agency that may be appointed by this department for supervision / monitoring of proposed activities and the environment impact of the proposed activities.	Noted and agreeing to bear the cost of external agency, if any that may be appointed by this department.
14.	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction.	Complied. Jetty approach is supported by piles allowing adequate flow of water.
15.	The ground water shall not be tapped within the CRZ areas by the AHPPL to meet with the water requirements in any case.	Being Complied Ground water is not being used for any purpose in the Port. The drinking water requirement is being met through tanker water. 2000KI of treated waste water from M/s. KRIBHCO is used for industrial purposes.
16.	M/s. AHPPL shall take up massive greenbelt development activities in consultation with Forest Dept. / GEER	Being Complied Company has set up dedicated green belt area for plantation at periphery / avenue plantation

S. No.	Conditions	Compliance Status
	Foundation / Gujarat Ecology Commission. A comprehensive plan for this purpose has to be submitted to the Forests and Environment Department.	/ landscaping etc. Total greenbelt area developed so far is approx. 68.90 ha within the port premises.
17.	Mangrove plantation in 200 Ha. shall be carried out in consultation with Gujarat Ecology Commission / Forest Dept. by M/s. AHPPL with in a period of two years from the issuance of CRZ clearance by MoEF, Gol and an action plan in this regard shall be submitted to this Department along with satellite images and GPS readings with Latitudes and Longitudes.	Complied Company has carried out mangrove afforestation in an area of 200 hectares i.e.: 20 hectares in Kantiyajal and 180 hectares in Village Nada-Devla of District - Bharuch and same is completed. Consolidated report on mangrove plantation on an area of 200 hectares at Village: Kantiyajal, Taluka: Hansot and Village: Nada-Devla, Taluka: Jambusar, District: Bharuch (Gujarat) developed by M/s. SAVE Limited, Ahmedabad. Supporting documents of the same submitted to MoEF & CC and other authorities along with the six monthly compliance report dated 20.11.2017.
18.	The AHPPL shall have to take up bio-shielding development programme as part of CSR in consultation with Forest Department / PCCF and action plan in this regard shall have to be submitted to the MoEF - Gol and this Department.	Being Complied <ul style="list-style-type: none"> Communication has been initiated with PCCF, Forest Dept., GoG vide our letter 29th May, 2012 and District Forest Officer, Surat Forest Range vide our letter dated 05th May, 2014. AHPPL has initiated the development of Bio-Shield Pilot Project at Village - Tankari Bandar, Taluka - Jambusar, District - Bharuch (Gujarat) on an area of 18 hectares with the help of a local NGO SAVE.
19.	M/s. AHPPL shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with Forest and Environment Dept. and the District Collector / District Development Officer.	Being 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. Appropriate financial contribution is being made. Schemes promoted by District Authorities and Forest & Environment Department, GoG are also included. Please refer the <u>Annexure-3</u> for the status of the CSR activities planned during the Financial Year: 2019-20.
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.	Being Complied <ul style="list-style-type: none"> Environmental Management Plan is in place and the funds earmarked are being utilized for effective implementation of environmental safeguards and environment monitoring. Key components are Environment monitoring, Mangrove plantation, environmental studies etc. Please refer the <u>Annexure-7</u> for details of budget and Expenditure for Environment Management for the FY: 2019-20. CSR activities carried out by Adani

S. No.	Conditions	Compliance Status
		<p>Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development.</p> <ul style="list-style-type: none"> Please refer the <u>Annexure-2</u> for the status of the CSR activities planned and carried out during the Financial Year: 2018-19.
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.	<p>Complied.</p> <ul style="list-style-type: none"> Environment Management Cell has been set up with qualified staff to ensure the effective implementation of environmental safe guards. In addition to the site Environment Management Cell a well-established corporate environment cell also ensures effective implementation of the environmental safeguards. Please refer the <u>Annexure-5</u> for Environment Management Cell Organogram.
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. AHPPL to this Department as well as MoEF, Gol.	<p>Complied.</p> <ul style="list-style-type: none"> Regular Environmental Monitoring/ Analysis are being done through M/s. Pollucon Laboratories, Surat (a MoEF&CC and NABL accredited laboratory) and others concerned authorities along with Six Monthly Compliance Report. No significant changes observed with respect to past monitoring results.
23.	A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by M/s. AHPPL on a regular basis to this Department as well as MoEF, Gol.	<p>Noted and complied with.</p> <ul style="list-style-type: none"> Six monthly compliance reports are being submitted to all the concerned authorities on regular basis. Last report was submitted vide letter No. AHPPL/MoEFF&CC 2019-20/001 dated 29.05.2019
24.	Any other condition that may be stipulated by this Department / MoEF, Gol from time to time for environment protection / management purpose shall have to be complied with by M/s. AHPPL.	Noted and comply with the additional conditions stipulated by the MoEF & CC, if any.

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

ANNEXURE-1:

Copy of Ammended Consent to Establish (CTE)


GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A, Gandhinagar 382 010
Phone : (079) 23222425
(079) 23232152
Fax : (079) 23232156
Website : www.gpcb.gov.in
**"Consent to Establish-Amendment"
(CTE-101580)**
BY R.P.A.D.
NO: GPCB/CCA-SRT-1314(7)/ID_35352/
Date:
**To,
M/s. Adani Hazira Port Pvt. Ltd.
Near Hazira LNG Pvt. Ltd.,
Hazira:- 394270,
Tal:- Chorasi, Dist:- Surat.**
**Sub: Consent to Establish (NOC)-Amendment under Section 25 of Water Act 1974 and
Section 21 of Air Act 1981**
Ref: 1) Your application for CTE-Amendment no. 151989_ received Dated. 25-03-2019.

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants **Consent to Establish-Amendment for change in container cargo handling from 14.4 MMTPA to 36 MMTPA** in existing industrial plant/activities located at Near Hazira LNG Pvt. Ltd., Hazira:- 394270, Tal:- Chorasi, Dist:- Surat, for the manufacturing of the following items:-

Capacity & Type of Cargo			
S. No.	Type of Cargo	Capacity To Handled Cargo	Total quantity after CTE-Amendment
1	Containers	14.4 MMTPA	36 MMTPA
2	Coal - Local & Others	10.40 MMTPA	10.40 MMTPA
3	Steel	6.20 MMTPA	6.20 MMTPA
4	Other Dry Bulk		
5	Automobiles	0.1 MMTPA	0.1 MMTPA
6	Liquid Bulk	5.0 MMTPA	5.0 MMTPA

SUBJECT TO THE FOLLOWING CONDITIONS: -

1. The validity of this order will be up to years i.e. 13-05-2024.
2. Industry shall manage Solid Wastes generated from industrial activities as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).

Page 1 of 4
M/s. Adani Hazira Port Pvt. Ltd.(ID-35352)
Clean Gujarat Green Gujarat
ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

Outward No:507296, 20/05/2019

CONDITIONS UNDER HAZARDOUS WASTE RULES:

1. **M/s. Adani Hazira Port Pvt. Ltd.** is hereby granted consent to establish to operate facility for following hazardous wastes on the premises situated at **Near Hazira LNG Pvt. Ltd. Hazira:- 394270, Tal:- Chorasi, Dist:- Surat.**

Sr no	Waste	Quantity MT/Year	Schedule-I/ Category	Facility
1	Oil-Containing Cargo Residue, Washing Water And Sludge / Cargo residue, washing water and sludge containing oil	6000	3.1	This shall be treated to meet GPCB norms & then REUSE within the premises for green belt development in an area of 69.88 Ha. and also for fire fighting.
2	Chemical Containing Cargo Residue And Sludge / Cargo residue and sludge containing chemicals	240	3.2	Collection, Storage, Transportation and disposal by incineration in the approved CHWIF. RECEPTION from ships coming to the port only
3	Sludge and filters contaminated with oil	18	3.3	Collection, Storage, Transportation and disposal by incineration in the approved CHWIF. RECEPTION from ships coming to the port only
4	Ballast/Bilge/Slop Water Containing With Oil From Ship/Tag	60	3.4	Collection, Storage, Transportation and disposal by incineration in the approved CHWIF. This shall be treated to meet GPCB norms & then REUSE within the premises for green belt development in an area of 69.88 Ha. and also for firefighting
5	Used / Spent Oil	120	5.1	Collection, storage, transportation and disposal by selling to Registered re-refiners. RECEPTION from ships coming to the port only
6	Wastes Residues Containing Oil	180	5.2	Collection, Storage, Transportation and disposal by incineration in the approved CHWIF. CO-PROCESSING/ RECOVERY may be explored.
9	Contaminated Cotton Rags or Other Cleaning Materials	180	33.2	Collection, Storage, Transportation and disposal by incineration in the approved CHWIF. CO-PROCESSING/RECOVERY may be explored.
12	Oil and Grease Skimming	12	35.4	Collection, Storage, Transportation and disposal by incineration in the approved CHWIF.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone : (079) 23222425

(079) 23232152

Fax : (079) 23232156

Website : www.gpcb.gov.in

2. Applicant shall have to comply with provisions of Hazardous and other Waste (Management and Trans Boundary Movement) Rules 2016.
3. The applicant shall obtain membership of common TSDF site for disposal of Hazardous waste as categorized in Hazardous and other Waste (Management and Trans Boundary Movement) Rules 2016.
4. The applicant shall obtain membership of common Hazardous Waste incinerator for disposal of incinerable waste.
5. The applicant shall provide temporary storage facilities for each type of Hazardous Waste as per Hazardous and other Waste (Management and Trans Boundary Movement) Rules 2016.
6. The applicant shall obtain registration/authorization for recycling/reprocessing any hazardous waste before procuring material/starting production as per HW Rules 2016.
7. The applicant shall obtain authorization for recovery/reuses of any hazardous waste material as per HW Rules 2016.

GENERAL CONDITION :

8. Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is atleast 1000 trees per acre of land and a green belt of 3 meters width is developed.
9. The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.
10. In case of change of ownership/management the name and address of the new owners /partners/ directors/ proprietor should immediately be intimated to the Board.
11. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986.
12. The applicant also comply with the General conditions as per Annexure - I attached herewith (No.1 to 38) (whichever applicable).
13. The concentration of Noise in ambient air within the premises of industrial unit shall not exceed following levels:
Between 6 A.M. and 10 P.M. : 75 dB(A)
Between 10 P.M. and 6 A.M. : 70 dB(A)
14. Applicant is required to comply with the manufacturing, Storage and Import of Hazardous Chemicals Rules-1989 framed under the Environment (Protection) Act-1986.
15. If it is established by any competent authority that the damage is caused due to their industrial activities to any person or his property in that case they are obliged to pay the compensation as determined by the competent authority.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

(Sushil Vagda)
Senior Environmental Engineer

Page 3 of 4

M/s. Adani hazira Port Pvt. Ltd.(ID-35352)

Clean Gujarat Green Gujarat

ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

Outward No:507296,20/05/2019



Adani Hazira Port Private Limited

**From : April, 2019
To : September,
2019**

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

ANNEXURE-2:

ACTION PLAN AND COMPLIANCE STATUS ON THE ISSUES RAISED DURING THE PUBLIC HEARING

Annexure-1: Action plan and compliance status on the issues raised during the public hearing:

S. No	Name	Details of Representation	Response during PH	Status as on 30.09.2019
1	Rohitbhai Jayantibhai Patel, Sarpanch, Hazira	<p>On behalf of Hazira village, I welcome the expansion project of M/s. Adani Hazira Port Pvt. Ltd. at Hazira. Priority will be given to thousands of people of Hazira and surrounding villages for transport, business and employment opportunities. Company has provided training to the people of Hazira and surrounding villages for crane operation at Mundra and given employment as crane operator at Hazira Port.</p> <p>I believe that company will install latest technology for pollution control. Proposed project will surely care for human life. Due to proposed port Hazira people will surely get water, health and education facilities. I request that company would take required precautions for accident prevention and safety. Adani Foundation has provided required support as and when needed by Hazira village. I request that fishermen's concerns be taken care.</p> <p>I welcome this port as we are getting transport related business opportunities and we hope that same would be continued in future.</p> <p>Please clarify how much priority will be given to people from Hazira and surrounding areas for employment.</p> <p>Forest land is also requested for development of port at Hazira. So kindly clarify for compensation/afforestation.</p> <p>Please clarify what arrangements have been made by company if calamities like Tsunami, Earthquake or Flood arise after implementation of the proposed</p>	<ul style="list-style-type: none"> • Rohitbhai, we are happy to note that on behalf of Hazira gram panchayat you have given warm welcome for this project. We whole heartedly thank you for this gesture. We assure you that our Conduct and Approach in managing activities would be in reciprocation to your welcome. • National Highway –6 is being widened. On completion the constriction and congestion that we see today will be behind us. As mentioned in the EIA in the first 5 years of the multi cargo port maximum number of 1200 trucks is expected to ply in the national highway connecting the port. After the railway line is developed and the trains start plying 60% of the transportation load will be conveyed through rail transport only 40% will come on 	<ul style="list-style-type: none"> • Closed. Point is about welcoming the project and does not warrant any further action. • Widening of the National Highway – 6 is completed. Currently there is no traffic congestion on National Highway – 6. Railway line for transport of cargo is yet to be developed.

		project.	the national highway. That is a moderate load.	
2.	Dharmendra bhai Bhikhubhai Patel, Ex-deputy Sarpanch, Hazira	<p>We welcome this public hearing. It is good that you are giving preference to local affected people and hearing them during public hearing. We don't have any objection against the development of Adani Group along with other industrial development in Hazira leading to development of Gujarat and the Nation. Adani company is complying with the environmental laws promulgated by the State and Union Government. In fact, it is duty of Adani Port to do so. Under their CSR activities Adani Group should provide support for development of Hazira village and employment to unemployed people. All transport businesses should be given to small & big local transporters of Hazira only. Youth from families of affected fishermen should be provided required training and employment. New transport route should be proposed as the present route to take containers is very narrow.</p> <p>We thank Adani Group for giving support for the construction of classrooms for standard 11 & 12 in Navchetan school.</p> <p>I thank you for making me successful in providing compensation to the affected fishermen.</p> <p>I request for employment to locals people and transport contract to local transporters only. We support the development of Adani Port in our area. We don't have any objection to the project in this public hearing.</p>	<p>• This port will have focus on container cargo. Container cargo comes in boxes and is clean by nature. So the question of fugitive dust emission on the road is not expected to be severe for this port.</p> <p>• The coal handling will be done taking care that all the trucks are properly covered so that there is no dust emitted on the road. As you know practically all our transporters are from this area. It is their responsibility to take care of overloading. If transporters do</p>	<p>• Closed.</p> <p>Major cargo handled at the port is container and liquid which do not increase the fugitive dust. AHPPL is monitoring ambient air quality at five locations in and around project through a NABL accredited and MoEF recognized laboratory M/s Pollucon laboratories, Surat. Report confirms that ambient air quality is well within the NAAQS. Copy of the reports are enclosed as Annexure – 4A</p> <p>• Complying with.</p> <p>All the trucks carrying coal and other dusty cargo are being covered through tarpaulin. AHPPL also ensures that no truck goes out of the port with overload.</p>
3	Bhagubhai Maniram	As this is biggest port in the South Gujarat and as there is no		

	<p>Patel, Sarpanch, Junagam</p>	<p>government land left, we wish that there will not be resettlement of the Junagam village due to this proposed expansion project of Adani Port.</p> <p>There is a fear in the people of the village that they will have to vacate the village in future. So we request collector to give us guarantee in writing that we will be able to live with peace where we are today.</p> <p>Berths will be developed through dredging up to -15 meters. We are getting ground water from the depth of 20 to 65 ft in some of the areas, which we are using for drinking purpose. What will be the impact on the ground water due to dredging upto -15 meters?</p> <p>After construction of liquid berth No.3 which will handle & store 1.95 Million Tones by 2017-18, what emergency steps would be required to save the human life incase just like Bhopal if there will be gas leakage due to Tsunami, Earthquake or terrorist activities.</p> <p>We welcome Adani Port & they require land for the container and coal storage. However, all industries located in the Hazira area have acquired government land and another 2000 acre land is allotted to tourism department. Sir therefore, I request you to declare remaining land of Junagam, Suvali. Damka & Bhatlai as residential area or agricultural zone. This is to ensure that in future we will not be displaced. As the port is to be constructed at the coast line, there are chances of spillage of liquid into sea and impact of solid hazardous waste. In this condition explain plan to mitigate impact on fisher man community.</p>	<p>not overload, there would not be any spillage on the roads. It is not only responsibility of GPCB or the company but we all have to collectively work together for spillage free coal transportation.</p> <ul style="list-style-type: none"> • Junagam sarpanchshri expressed apprehension that we will take away government land and lands belonging to farmers in Junagam village. We want to assure you that we do not intend to take any private land of farmers or any house site land. If you carefully see the development plan we have just presented, the map will alleviate your uncalled fears. There would not be any question of rehabilitation of any village. Moreover, we will take care that your property. Your assets and convenience are not jeopardized by our action. • You talked about vultures; I would like to point out that there is no sanctuary or national park near 	<ul style="list-style-type: none"> • Closed. <p>There is no displacement of people, houses or fishermen as the port is being developed on reclaimed land and land allotted by Government as there is no acquisition of private land.</p> <ul style="list-style-type: none"> • Closed. <p>There is no sanctuary or national park near by the port. In the</p>
--	---	---	--	--

		<p>Secondly there is a question of unemployment of the youth of the Hazira area. As told by the company 700 people will be employed, youth from local families presently engaged in farming, animal husbandry and fisheries should be trained. Due to development of the port people from different states of India will come and therefore, there are chances of crime such as gang rape, hooliganism and terrorist attack. Is there any plan to control these potential evils? Training to unemployed women and employment is being planned. In future we and Adani Port would like to work together with full cooperation. On behalf of Jungam village and villagers, I welcome the expansion of the terminal.</p>	<p>by the port. In the EIA, we have studied the entire area and we will take due care to preserve the environment.</p>	<p>EIA, we have studied the entire area and we will take due care to preserve the environment.</p>
4	Alpeshkumar Thakor – Fisherman, Hazira.	<p>Plantation of the mangroves has been carried out between well numbers 4 to 7. This plantation has been destroyed by dredging and area is filled up.</p> <p>In this area fisherman used to catch prawns, crabs and sustain their livelihood. Through dredging company has destroyed Mangroves. There are approximately 2500 fishermen, belonging to Halpathi and Koli Patel communities living in the village. These people will be unemployed as fishing activity will be stopped due to dredging up to 20 meter by the company. Is it development or destruction?</p> <p>If fishermen get sand from the river by the boat in the Magdalla area, they have to pay royalty for the same. But why companies are given permission for dredging without royalty? What about approximately 2500 fishermen?</p>	<ul style="list-style-type: none"> • We re-emphasize that we will comply with all the laws and in doing so we would be guided by GPCB and other concerned authorities. • Some of you have expressed concern about terrorist activity creating great risk to our chemical terminals with attendant adverse consequences in our neighbourhood. We are going to be ISPS compliant; as a result of this discipline, only authorized persons and material can enter into the port. More over district administration and police also take precautionary measures to intercept terrorist activities. Coast guards contribute to this effort. In a sense the entire nation is collectively fighting against terrorism. 	<ul style="list-style-type: none"> • Complied. AHPPL is operating the port in compliance with all rules and regulations. • Complied. AHPPL security system is in compliance with ISPS. ISPS Statement Number is: MMD/KDL/SOC /O14 and validity 10/02/2021. AHPPL has access control system in place to avoid unauthorized entry of men and material.
5	Babubhai Aahir (Sarpanch,	<p>As our friends have already given suggestion for safety and employment, it is not required to repeat the same. Foundation</p>	<ul style="list-style-type: none"> • In the context of 	<ul style="list-style-type: none"> • Complied. Regional DMP for the Hazira

	Suvali)	<p>should provide employment opportunity to the land looser, fisherman, individual engaged in animal husbandry who are above 50 years and uneducated.</p> <p>Unemployed youth of this area should be provided training and given opportunity for the employment. Company should control the pollution arising due to transportation of chemical or coal. Earlier "Shell" company used to avoid overloading. So Adani Port should also not do the overloading to prevent the accidents. There is no medical facility available for treatment in case of emergency. As there is drought this year, company should consider providing drinking water in surrounding area.</p>	<p>natural calamities, we have done modeling studies to understand the risk of oil spillage. We have also prepared Disaster Management Plan. This plan is being presented to the District Collector. After his approval it will go to State Disaster Management Authority at Gandhinagar for necessary approval and guidance. During natural calamities all local industrial units and government organizations work together to mitigate impacts of natural calamities. In that situation we would work under the guidance of District Collector and police authorities to do the needful. Disaster Management Plan is structured in such a way.</p>	<p>Peninsula, covering all major industries and the port has been prepared in consultation with District Authorities and same is being implemented.</p> <p>Oil Spill Contingency Plan has been prepared and the same was approved/ vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014).</p> <p>In addition, AHPPL has developed and implemented ER & DMP. Regular mock drill to ensure the compliance and preparedness is being done.</p> <p>Last Mock Drill (On Site) was on : 30.09.2019</p> <p>Last Update of ERP & DMP : 30.05.2019</p> <p>Last submission to Directorate Industrial Safety & Health (DISH) on 30.05.2019</p>
6	Divyeshbhai, Hazira	<p><i>(During the representation of the Shri. Divyeshbhai there was a aggressive representation of Shri. Jayesh Patel resident of village Dihen, that he wants to present his questions.</i></p> <p><i>Honourable Collector replied that resident or stakeholders from affected villages should represent first. During this time Shri. Jayesh Patel and other people created disturbance which was controlled by Panel and then representation from Mr. Divyeshbhai continued.)</i></p> <p>Why this public hearing is kept at Junagam even it is of Hazira Village? Now we will talk about the pollution. Lots of dust is observed in the houses of the hazira village during the night hours. As per information particles of dust have been found in the lungs of the woman. If this information proves to be true we will file a pitition in the High Court. During the widening of the National Highway No. 6 land in the surroundings villages will be taken. As National Highway is not passing through</p>	<p>• In regard to impact on fisherman, I want to point out the real situation that we are not in the river mouth, but just outside of it. The port development is</p>	

		<p>Hazira, the villagers need to travel 8 Kilometres extra. Why it is not extended straight? Fishermen are being told that there is no fish in the sea but slags are cast in the corners of the sea due to which some fish die. Dolphin is also found at present in the Hazira area. We welcome the project if the port company is ready to give written assurance regarding employment.</p>	<p>only in a stretch of 4 km of coast line. We have not displaced any fisherman. The surrounding areas are open for fishing, nevertheless we have compensated fisherman who were identified by the Grampanchayat to be active in the areas where we are now operating. As Susmaben mentioned we will support fisherman by giving them tools, nets etc. and be helpful to them.</p>	
7	<p>Jayeshbhai Patel, Resident of Dihen village and President, Gujarat State Farmers Samaj</p>	<p>I raise my objections against proposed expansion project of AHPPL for which public hearing is organized and I request that my objections should be included.</p> <p>M/s. Shell India has got environmental clearance in 2003 in which clearance was given for development of three berths. These berths are constructed at places other than shown earlier. So I request collector to remove these three berths.</p> <p>Out of proposed 7 berths for container and 4 for bulk terminal, 3 have been already constructed and port is functional. In this situation, I request to include in this public hearing what actions have been taken by collector against Adani for functioning of port & disposal of coal in Hazira and what actions have been taken by GPCB against company for disposal of coal in open.</p> <p>This project is being developed on the mouth of river Tapi therefore it is my feeling and request that it should not be given Environmental Clearance.</p> <p>EIA study does not include the objections of the report of Sugnyaben Bhatt Commission which was set up by Gujarat Government in 2006 in the</p>	<p>(At this stage Shri Sheikh and Shri Jayeshbhai started shouting & disturbing the clarification of the project proponent. The chairperson told them repeatedly not to disturb the proceedings)</p> <ul style="list-style-type: none"> • We would help sons and daughters of fisherman to educate them and trained. We would do everything practicable to achieve this end. 	<ul style="list-style-type: none"> • Closed. <p>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.</p> <p>Appropriate financial contribution is</p>

	<p>aftermath of Surat flood. So it is my request that this public hearing and Environmental Clearance should be cancelled.</p> <p>Hazira is located on the mouth of Mindhola & Tapi river. As per ICMAM report of Tapi river, erosion effect had spread up to Dumas because of filling of Tapi river due to Industrialization in this area. Erosion of shore is up to 2500 meter towards Dumas.</p> <p>ICMAM report is not studied. There is no clarity on what steps are required to control the erosion of shore near Dumas, so it is my request that it should not be given Environment Clearance.</p> <p>This area is declared reserved for vultures. As per survey there are about 150 vultures in the forest area. This report does not include what would happen to vultures, where they would go and what would be impact on Environment. So it is my request that it should not be given Environmental Clearance.</p> <p>There are approximately 2500-3000 fishermen families. There will be crisis for their livelihood.</p> <p>There is no clarity for rehabilitation and resettlement from Adani. So it is my feeling and request that it should not be given Environmental Clearance.</p> <p>Routes to sea are almost closed specifically for "Pagadia fishermen", who do fishing on foot. There is a big problem of their livelihood. Due to loss of fishing activities now they will not get thousands of crores of rupees which they were supposed to get due to fishing activities. Rs. 15 lacs is not sufficient compensation for that.</p> <p>This area comes under CRZ-IA. Specific fish called "Levta" grows in the mudflat and fishermen catch that fish in this mud and earn their livelihood. Due to excavation and</p>	<p>being made. Schemes promoted by District Authorities and Forest & Environment Department, GoG are also included. Please refer the <u>Annexure-2</u> for the status of the CSR activities planned during the Financial Year: 2018-19.</p> <ul style="list-style-type: none"> • Complied Proper care is being taken during construction activity to avoid salinity ingress and any degradation of water quality. M/s. AHPPL is monitoring the Ground Water Quality at one location on monthly basis. Results show no significant change in the quality. Ground water quality is being monitored through M/s. Pollucon Laboratories, Surat (a MoEF&CC recognized and NABL accredited laboratory). <p>Please refer the <u>Annexure-4B</u> for the</p>
--	---	---

	<p>reclamation there will be damage to biological mud and destruction of marine ecology. EIA report does not have clarity on what actions are required. So it is my feeling and request that it should be clarified in EIA report or not be given Environmental Clearance.</p> <p>Before Adani came there was mangrove forest in the area of 40 ha. As per survey today mangroves survive in the area of 15 ha only. Due to destruction of mangrove there will be damage to environment and coastal erosion. This study is not covered in EIA so it is my feeling and request that it should not be given Environmental Clearance.</p> <p>Five ports from 15 different companies and two big ports within 5 Km are coming in this area. The cumulative impact on road & rail transport due to operation of both ports Adani & Essar is not studied while preparing the impacts on land environment. Six-lane-road is also not going to be sufficient for this. So I request that Environment clearance should be given only after doing cumulative study.</p> <p>As reported, level of Suspended Solids & Petroleum Hydrocarbon is high as compared to desired levels in water. Level of pollution in the areas of water, air and land is already high as compared to other locations in the country. EIA report does not have clarity on what steps will be taken to bring down the pollution. So it is my feeling and request that it should not be given Environmental Clearance.</p> <p><i>(It is to be noted that Mr. Jayeshbhai Patel belongs to "Dihen village" which is approximately 18 Km away from the port site)</i></p>	<ul style="list-style-type: none"> • Our EIA has been done by M/s. Cholamandlam MS Risk Service Limited and M/s. National Institute of Oceanography. These are well respected and neutral expert organizations a head quartered outside Gujarat. Their studies have been accepted by Gujarat Coastal Zone Management Authority. Thus we want to work with you and be helpful to you. <p><i>(At this stage some of the individuals asked clarification for employment in the company. Collector Shri directed the company representative to answer it, and advised audience to listen to the representative peacefully.)</i></p> <ul style="list-style-type: none"> • The port has opportunities for both technical and non-technical employment. Moreover indirect employment in transport and other services will 	<p>Environmental Monitoring / Analysis Reports for the period March 2019 to September 2019</p> <ul style="list-style-type: none"> • Complied. <p>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. Please refer the Annexure-3 for the status of the CSR activities planned during the Financial Year: 2019-20.</p> <ul style="list-style-type: none"> • Closed <p>Point does not warrant any further action.</p> <ul style="list-style-type: none"> • Complied. <p>AHPPL has always given employment priority to local qualified persons and in future the same</p>
--	--	---	---

8	Dhansukhbhai Patel, President Hazira Coastal Area	<p>Employment is given to 30-35 people in the form of contract but we insist that it should be permanent in nature.</p> <p>For this liquid cargo transport, it will be storage of chemicals or processing of chemicals? If it is chemical processing then hazard will increase, so I request to provide information on what measures Adani will take for health and safety?</p> <p>Please provide information if this project has got any clearance from Central Government like what they have got from State Government.</p> <p>Adani has declared only 4-5 villages as affected. Will there not be any impact on Mora, Kawas or Interior of Ichhapur while trucks pass through them?</p> <p>There are 10-12 big companies in this area and they have developed residential township with all facilities for their employees. Is it not possible that each company will take one village from 10-12 villages and also provide them same facilities?</p> <p>For this, MOU is necessary and matters related to self-employment & development of village should be mentioned. We will be benefited in future; only if there will be MOU.</p> <p><i>(It is to be noted that Mr. Dhansukhbhai Patel belongs to Kawas village which does not fall within 10 Km radius of the study area)</i></p>	<p>also be there. All these opportunities may be taken by local residents. To facilitate them to take this opportunity we will provide necessary training to enhance their competence, so that they may not only get employment in Adani port but else were also.</p> <p><i>(At this stage Jayeshbhai and other peoples repeatedly disturbed the hearing and stopped the company representative to elaborate further. Collector repeatedly asked all concerned to maintain calm and listen to the company representative. All major points being over collector concluded the public hearing.)</i></p>	<p>will be continued. As on 30th September 2019 total 207 out of 242 On roll employees are from Gujarat.</p>
9	Kamlaben Rohitbhai Patel, Choryasi Taluka Panchayat, Leader of opposition party	<p>I welcome the expansion project of Adani company. Due to proposed port priority would be given to Hazira and surrounding area for employment and business. I request that fishermen's concerned would be taken care by this project. Adani Foundation of Adani Company has given commitment for the</p>		

		various activities for the development of village. So I welcome the project and declare my support for the Port of Adani Company at Hazira.		
10	<p>Mohanbhai Ambubhai Patel,</p> <p>Village: Vaswa</p>	<p><i>(Collector informed Mohanbhai to raise those issues only, which were not raised earlier)</i></p> <p>Adani Company has told that 700 people will be employed. Please clarify whether it will be permanent or contractual basis? Thousands of people are working on contractual basis in the surrounding companies but nobody gets permanent employment.</p> <p><i>(Then Regional Officer, GPCB again informed the concerned persons to raise other issues if any. The employment issue will be addressed by the company.)</i></p> <p>As per survey carried out by NIO out of 1600 km of Gujarat coast nearly 25% is already filled due to construction of ports at other places. As a consequence of this, there will be huge damage to agriculture in the surrounding area and there would also be ingress of sea water in the area.</p> <p>Adani Company has decided to pay compensation of Rs. 15 lacs to 40 fishermen but what arrangement company will make for the 4000 fishermen in the surrounding villages?</p> <p>Adani Company is developing their project on 31428 ha of land. Is this land private or government? If it is on private land then whole Junagam village would be vacated. Survey numbers are also not shown for this land.</p> <p><i>(It is to be noted that Mr. Mohanbhai Patel belongs to Vanswa village which does not fall within 10 Km radius of the study area)</i></p>		

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

11	Jayantibhai Khalasi President, Fish Progress Union, Hazira	<p>You all will go away after this public hearing but whom should we contact regarding pollution in our area?</p> <p><i>(Then Collector informed him that regarding pollution he may contact GPCB.</i></p> <p><i>Regional Officer, GPCB also informed him that regarding pollution he can submit in writing.)</i></p>		
----	--	---	--	--

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

ANNEXURE-3:

DETAILS OF THE CSR ACTIVITIES CARRIED OUT DURING April 2019 to September 2019



HAZIRA

Monthly Progress Report

April - 2019

Education

Sr. No	Activity	Planned in this month (Y/N)	Organized in this month (Y/N)	Remarks	Planning for next month (Y/N)
1	Coaching class for NMMS Exam and Jawahar Navodaya exam preparation (SDG4)	N	N	Activity will be start from aug 2019	N
2	Promotion of sports in schools (SDG-3)	N	N	Activity will be start from July 2019	N
3	Tribal community development activities with Halpati community at Hazira and Songadh (SDG 11)	Y	Y	Initiated primary baseline survey and dialogue with halpati community	Y

Please list the activities as per budget line item only

Education



- ❖ We have initiated baseline survey and group meeting with Halpati community. had discussion on health, education and social security scheme of state government.
- ❖ Regular meeting with halpati community will be start from this month
- ❖ Remedial coaching class will start from June 2019 for halpati students at Vasva, Hazira and suvali village

Education



❖ Total 10 Visits Conducted in the Month of April-2019

❖ Boys -294 Girls -177 and Teachers 31
Total=502 Students Visited Hazira Port Under * UDAAN * Project in the Month of April-2019

Education

Navchetan Vidyalaya, Junagam

Sr. No	Activity	Planned in this month (Y/N)	Organized in this month (Y/N)	Remarks	Planning for next month (Y/N)
1	Administration Expenses & Salary	YES	YES	--	NO
2	School Material Support	YES	YES	--	No
3	School Software Activity	YES	NO	--	No
4	School Building Development	YES	NO	--	No
5	Food	YES	NO	--	No

Education

Navchetan Vidyalaya, Junagam.



Examinations

- ❖ Project submission and oral examinations
- ❖ Practical examination of PE & Yoga



Education

Navchetan Vidyalaya, Junagam.



Internal Evaluation

- ❖ To make sensible about mother nature School has provided a flower plant to each student of standard-1st at the time of PRAVESHOTSAV in June-2018.
- ❖ Students has to plant it at their home, They have to take care, water the plants regularly.
- ❖ Twice in a year class teacher visit the house of students and check the growth of the plant and suggest students and parents to grow more.
- ❖ Here are the pre and post photographs of the said flower plant for this academic year.





Pre (January-2016) and post (April-2019) photographs of primary school building of Navchetan Vidyalaya, Constructed by Adani Foundation



Pre (October-2015) and post (April-2019) photographs of adjoining area of High school & primary school building Navchetan Vidyalaya, Constructed by Adani Foundation.

Community Health

Sr. No	Activity	Planned in this month (Y/N)	Organized in this month (Y/N)	Remarks	Planning for next month (Y/N)
1	De-addiction (SDG 3)	N	N	Activity will be start from July 2019 after identification of Group	N
2	Medical Camp for Truckers (06 Camps) (SDG 3)	N	N	Activity will be start from July 2019	N

Community Health



❖With the Guidance provided by Adani foundation, Four out of Ten patients successfully cured their cataract problems at subsidized rate at Tristar Hospital, Surat. It was when these ten patients attended Multi specialty camp held by Adani foundation at Segvachhma village of Olpad Block and diagnosed Cataract problem. Eye specialist doctor referred them for immediate operation. The general cost of operation was 8000 rupees. Team AF collaboration with Tristar hospital Support four of them to cure their eye problem at Rs 5000/-. These four patients showed their gratitude towards Adani foundation for being with them in times of despair and help them achieve to accomplish the operation successfully.

Sustainable livelihood Development

Sr. No	Activity	Planned in this month (Y/N)	Organized in this month (Y/N)	Remarks	Planning for next month (Y/N)
1	Developing & Strengthening SHGs (SDG 5)	N	N		N
2	Livelihood activities for community (SDG 1)	N	N	Start from next month	Y
3	Sustainable Agriculture (SDG1)	N	N	Activity will be start from next month	Y
4	Animal Husbandary Project with BAIF (SDG 15)	N	N	Activity going on as per Previous MOU with BAIF	Y
5	Community Engagement Program (SDG 5)	N	N	Activity will be start from Jan 2019	N
6	Environnent Conservation Activities (SDG 13)	N	N	World environment day celebration will be take place on 5 th June 2019	Y

Sustainable Livelihood Development



• AI – 35 Cow – 14 , Buffalo -21

• 17 New born Calf.

10 Caw , (Male - 04, Female 04,)

07 Buffalo, (Male 03, Female 04)

02 sold by farmer

Continue activity of 20 calf rearing at Bhandut and Mota khosadiya villages under animal husbandry project.

Sustainable Livelihood Development

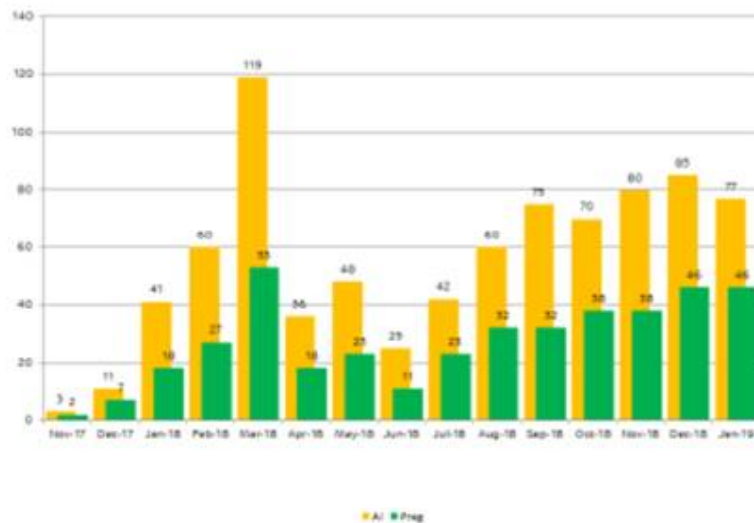
Details of Artificial Insemination (AI) – 2019-20

AI	COW	BUFFALO	Total
Apr-18	11	25	36
May-18	17	31	48
Jun-18	9	16	25
Jul-18	20	22	42
Aug-18	20	40	60
Sep-18	10	65	75
Oct-18	13	57	70
Nov-18	15	65	80
Dec-18	17	68	85
Jan-19	27	58	85
Feb-19	26	44	70
Mar-19	13	27	40
Total	198	518	716

AI performed v/s Pregnancy Detected

Month	Total			Total			Per(%)
	Cow	Buff	AI	Cow	Buff	Preg	
Nov-17	1	2	3	0	2	2	67
Dec-17	3	8	11	2	5	7	64
Jan-18	11	30	41	6	12	18	44
Feb-18	13	47	60	4	23	27	45
Mar-18	23	94	119	11	42	53	31
Apr-18	11	25	36	5	13	18	50
May-18	17	31	48	8	15	23	48
Jun-18	9	16	25	4	7	11	44
Jul-18	20	22	42	10	13	23	55
Aug-18	20	40	60	11	21	32	53
Sep-18	10	65	75	4	28	32	43
Oct-18	13	57	70	7	31	38	54
Nov-18	15	65	80	9	29	38	48
Dec-18	17	68	85	9	37	46	54
Jan-19	22	55	77	13	33	46	60
Total	207	625	832	103	311	414	50

AI performed v/s Pregnancy Detected



Percentage of success



Skill Development (awareness on Digital literacy)



AF Hazira and ASDC Surat Team organized meeting with women's group for creating awareness on digital Literacy program. DL training will be start from may 2019 at Junagam,suvali,Damka and Rajagri.

Demographic profile summary

Villages*	25	
Gram Panchayat	23	
Block	2	
District	1	
Govt. Schools		Primary School -30 Upper PS - 0 Secondary - 5 Sr. Sec - 0
Govt. Hospitals		District Hospital - 1 CHC - 1 PHC - 1
Population	125582	Household - 26235 Male -75267 Female -52315
Anganwadis	63	

* Please mention separate numbers in case hamlets/ wards/ slum



HAZIRA

Monthly Progress Report

May - 2019

Education

Sr. No	Activity	Planned in this month (Y/N)	Organized in this month (Y/N)	Remarks	Planning for next month (Y/N)
1	Coaching class for NMMS Exam and Jawahar Navodaya exam preparation (SDG4)	N	N		N
2	Promotion of sports in schools (SDG-3)	N	N		Y
3	Tribal community development activities with Halpati community at Hazira and Songadh (SDG 11)	Y	Y	Initiated meeting with Halpati community	Y

Please list the activities as per budget line item only

Education

Name: RATHOD CHIRAGKUMAR BHARATBHAI

Result: QUALIFIED FOR SECONDARY SCHOOL CERTIFICATE

Subject Name	Marks obtained in external board exam out of 70	Marks obtained in internal school exam out of 30	Subject wise grand total out of 100	Subject wise Grade
01 GUJARATI FL	29	14	043	C2
10 SOCIAL SCIENCE	32	18	050	C2
11 SCIENCE & TECHNO.	22*1	12	034*1	D
12 MATHEMATICS	22*1	11	033*1	D
16 ENGLISH SL	22*1	15	037*1	D
17 SANSKRIT SL	34	15	049	C2
Grand Total	246 (TWO HUNDRED FORTY SIX)			

PERFORMANCE IN THE SUBJECTS OF SCHOOL BASED EXAMINATION



Master. Rathod ChiragKumar Bharatbhai stood an example by clearing his Matriculations exam against all odds. Due to poor financial condition of the family, he was unable to take tuition class. Through Adani Foundation innovative ideas to reach out Halpati Community children's by organizing remedial coaching class at Suvali Village.

Udaan Visit



WICASA Surat Visited Hazira port under Udaan project ,during port visit Respected CEO sir interacting with CA students regarding Port business.

Awareness meeting with Halpati community at Suvali village.



- ❖ Meeting with halpati community at Suvali village discussed regarding health, education and livelihood issue.
- ❖ Village Ex. Sarpanch Babubhai Ahir and Sarpanch Naynaben addressed community members.

Awareness meeting with Halpati community at Hazira village



Community Health

Sr. No	Activity	Planned in this month (Y/N)	Organized in this month (Y/N)	Remarks	Planning for next month (Y/N)
1	De-addiction (SDG 3)	N	N		N
2	Medical Camp for Truckers (06 Camps) (SDG 3)	N	N		N

Sustainable Livelihood Development

Sr. No	Activity	Planned in this month (Y/N)	Organized in this month (Y/N)	Remarks	Planning for next month (Y/N)
1	Developing & Strengthening SHGs (SDG 5)	Y	Y	Regular meeting and interaction with SHGs Group	Y
2	Livelihood activities for community (SDG 1)	N	N		N
3	Sustainable Agriculture (SDG1)	N	N		Y
4	Animal Husbandary Project with BAIF (SDG 15)	Y	Y		Y
5	Community Engagement Program (SDG 5)	N	N		N
6	Environment Conservation Activities (SDG 13)	N	N		Y

Sustainable Livelihood Development



- ❖ AI -46 Cow - 12 , Buffalo -34
- ❖ 24 New born Calf.
- 11 Cow , (Male - 04, Female 05) 2 Sold
- 13 Buffalo, (Male 07, Female 05) 1 sold
- ❖ Continue activity of 20 calf rearing in Bhandut , Mota khosadiya and Nana khosadiya villages under animal husbandry project.

Sustainable Livelihood Development

Details of Artificial Insemination (AI) - 2019-20

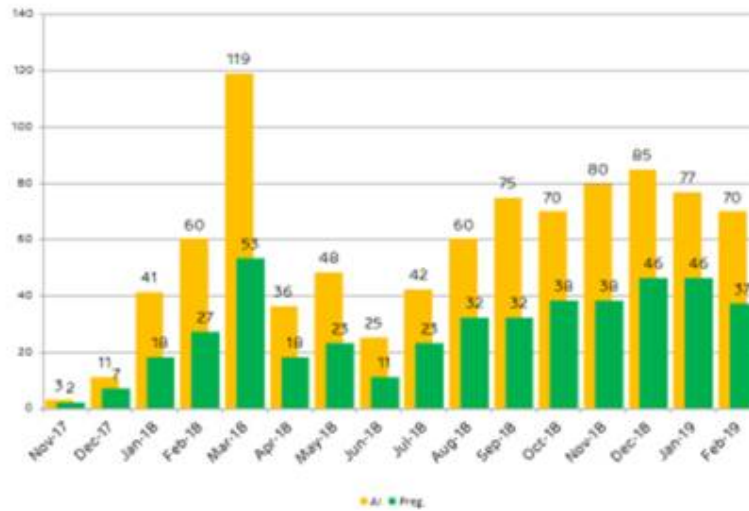
AI	COW	BUFFALO	Total
Apr-19	14	21	35
May-19	12	34	46
Total	26	55	81

AI performed v/s Pregnancy Detected

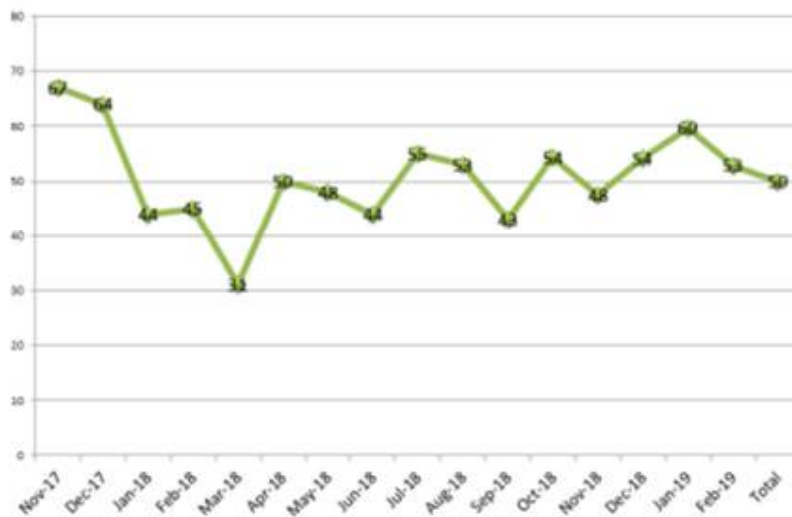
Month	Total			Total			Preg.	Per(%)
	Cow	Buff	AI	Cow	Buff	Preg.		
Nov-17	1	2	3	0	2	2	67	
Dec-17	3	8	11	2	5	7	64	
Jan-18	11	30	41	6	12	18	44	
Feb-18	15	47	60	4	23	27	45	
Mar-18	25	94	119	11	42	53	31	
Apr-18	11	25	36	5	13	18	50	
May-18	17	31	48	8	15	23	48	
Jun-18	9	16	25	4	7	11	44	
Jul-18	20	22	42	10	13	23	55	
Aug-18	20	40	60	11	21	32	53	
Sep-18	10	65	75	4	26	32	43	
Oct-18	13	57	70	7	31	38	54	
Nov-18	15	65	80	9	29	38	48	
Dec-18	17	68	85	9	37	46	54	
Jan-19	22	55	77	13	33	46	60	
Feb-19	26	44	70	14	23	37	53	
Total	233	669	902	117	334	451	50	

AI performed v/s Pregnancy Detected

Nov - 2017 to Feb - 2019



Percentage of success



Sustainable Livelihood



Promotion of Cattle shed activity is in progress with the work getting completed of 3 cattle shed at village Tena, Segvachhama and Kukni. This will provide safety for milch animals from rain and cold. Due to proper care of cattle, it is expected to have better health of the cattle which will directly impact by increase in milk production.

Sustainable livelihood



❖ New born Calf – 24

11 Cow (Male - 04, Female 05) 2 Sold

13 Buffalo, (Male 07, Female 05) 1 Sold

Sustainable livelihood



- ❖ Organized training on cattle breed improvement program at Segva chhama village of olpad block.
- ❖ Major discussion during training program on Sex sorted semen, use of chaff cutter, importance of vaccination, urea treatment and silage preparation total 45 progressive farmer were participated.

Meeting with assistant commissioner SMC Surat and UNICEF



- ❖ Assistant commissioner Dr. Gaytri Jariwala SMC Surat (Urban community development) and her team visited AF Hazira office and brief about SMC urban community development projects and seek AF support and partnership for skill development, livelihood, shelter for urban homeless and education. We have discuss about our initiative and gave small presentation about AF intervention.
- ❖ Attended workshop on multi stakeholder consultation towards strategies and action plan for education of children from urban slums of Surat municipal corporation organized by UNICEF

Demographic profile summary

Villages*	25	
Gram Panchayat	23	
Block	2	
District	1	
Govt. Schools		Primary School -30 Upper PS - 0 Secondary - 5 Sr. Sec - 0
Govt. Hospitals		District Hospital - 1 CHC - 1 PHC - 1
Population	125582	Household - 26235 Male -75267 Female -52315
Anganwadi	63	

* Please mention separate numbers in case hamlets/ wards/ slum



Monthly Program Review

Site Name: Hazira
Month/Year: June-2019

Highlights of the month

06/19

Community Engagement/ Others	Tree plantation at Junagam, Bhatlai, Damka and Vasva village Organized Rural sports -cricket tournament at Junagam village
Education	Meeting with TPEO (Taluka Primary education officer), school teacher and CRCs regarding strengthening education at primary school.
Community Health	Organized blood donation camp at Junagam village
Sustainable Livelihood	One Team member Rajnikant Tandel attended training on Sustainable agriculture
Community Infrastructure	Constructed new water storage tank and pump house for community of Vasva village which was inaugurated by AHPPL CEO Mr. Pranav Choudhary.

Highlights of the month- CoE and programs

06/19

AVM

Udaan

SuPoshan

Swachhagraha

Employee
Volunteering

- Adani foundation, Hazira and AHPPL organize blood donation camp on 24th June, 2019.

Employee Volunteering (1/1)

06/19

Number of EVP activities carried out in the month:1

Number of EVP activities carried out (YTD): 1 (Blood Donation camp)

Number of employees engaged in the month:224

Number of employees engaged (YTD):224

Blood Donation Camp

- AHPPL and Adani Foundation, Hazira organized blood donation camp on 24th June, 2019.
- 224 units of blood was collected during this camp which was later store at blood bank unit.



Education (1/6)

06/19

Meeting with TPEO, CRC and School Teacher

Initiated coaching class for 3 to 10 standard students for halapiti community at Vasva, damka, Hazira and suvali village.

- Towards concerning about the primary education status of the Hazira kantha area AF Hazira team organized formal meeting with concern department and key functionaries during this month. The meeting was attended by TPEO (Taluka primary education officer) CRC and school principals.
- During the meeting brief discussion on remedial caching class for halapiti community students and Jawahar Navoday and NMMS exam.
- For strengthening math's, science and English subject of STD 9th and 10th Students AF initiated special coaching class for needy students at Suvali village. Total 14 students will be benefited thru this coaching class.



Education (3/6)

06/19

Navchetan Vidyalaya, Primary wing

Happiness Course For all staff members and Teachers Training

- With support from AoL, Surat We have arranged a Happiness course for all staff members (Teaching & Nonteaching) of Navchetan Vidyalaya, Primary wing from 7.50 am to 10.00 am from 03/06/2019 to 06/06/2019. Resource person was Ms. Priya.
- As the name of the program suggests, it is all about "Happiness". The course participants learn some basic yoga postures and breathing techniques, such as pranayamas, which help them release the accumulated stress.
- Another thing that makes the program unique is the Sudarshan Kriya breathing technique that is taught.
- From last years' experience, a special tailor-made workshop cum teachers training was organized from 03/06/2019 to 08/06/2019 from 10.30 am to 12.00 pm.
- Title of the workshop: "Neo & Innovative Practices in Teaching & Learning"
- In the last session of the workshop SARPANCH of Junagam gifted BHAGWAT GITA to all the teachers who have participated.



Education (4/6)

06/19

Navchetan
Vidyalaya,
Primary wing

Fathers' day Celebration

- A father's selfless love is pivotal in nurturing the child and there could not be a more universal celebration than the one that celebrates the accomplishments and efforts of Father. Celebrating this precious bond, Primary wing of Navchetan Vidyalaya, Junagam celebrated Father's Day on 15/06/2019.
- Drawing, Card making and Essay writing competitions were arranged for the students of standard-5th to 8th, 158 students out of 174 students took part in those competitions and showed their creativity; theme of the competitions was 'My Father My Hero'.
- Cards and drawings were gifted to their father on 16/06/2019 i.e. on Father's day.



Education (5/6)

06/19

Navchetan
Vidyalaya,
Primary wing

PRAVESHOTSAV

- Celebrated SHALA PRAVESHOTSAV for the new enrolled students of standard-1st on 18/06/2019 at 8.30 am in cultural hall. Dr. Mukul Choksi (Psychiatric & Well known Gujarati poet), Mr. Rupeshkumar Jambudi (AGM, Env. Health & Safety, AHPPL, Hazira) & Mr. Bhaveshbhai Donda, (DGM, Corporate Affairs, AHPPL, Hazira) were chief guests. Trustees of Navchetan Vikas Mandal remain present.
- Students of standard-1st were welcomed and given educational kit Consisting 2 pairs of school uniforms, Notebooks, School bag, Text books and a flower plant.
- Dr. Mukul Choksi gave a speech on "students-Parents relationship". He spoke about the responsibility of the guardians as the parents in child development, Encourage the child, praising the achievements, not giving bribe, Have to develop reading habits, listening stories. He gave many tips to make positive relations between parents and their wards. Mr. Rupeshkumar Jambudi spoke about activity based education and gave blessing.



Education (6/6)

06/19

Navchetan
Vidyalaya,
Primary wing

World Yoga day celebration

- The purpose of International Yoga Day is to promote yoga and endeavor towards making it a part and parcel of everyone's daily routine. International yoga was celebrated on 21st June 2019, in the premises of Navchetan Vidyalaya, Junagam.
- It was Thirty five minutes session, started at 8.00 am. All the teachers and students participated enthusiastically in the program. Program started with pranayama as a warm up, followed by SURYA NAMASKAR and ended with divine and peaceful meditation. It was all together a rejuvenating experience for the participants.
- 182 students of standard-5th to 8th and 8 teachers participated in the program.



Udaan

06/19

Project Udaan

- To encourage young talent of the locality in building perspective of Entrepreneurship by engaging them through exposure visit under the Udaan Project.

- During this month two exposure visit event was conducted participants from Gajera global school and Pradhanmantri kaushal viksa kendra visited AHPPL Hazira port, total 85 participant were visited.



SLD (1/2)

6/19

Environment Conservation Activity

- Towards preservation and conservation of environment team Hazira organized afforestation activity at Bhatlai, Damka, Vasva and Junagam village

- Total 690 tree planted by involving local youth community leaders and MLA of the Chorashi Mrs. Zankhana Patel
- Majority of sapling are Pipal, Vad and Neem etc
- This sapling are leverage from forest department and AHPPL Hazira port horticulture department



SLD (2/2)

06/19

Kamdhenu project

Enhance profitable livelihood perspective among beneficiaries

Adani Foundation organized exposure visit at BAIF Lachakadi Center, Agriculture University Navsari, Nani tambari and Pardi Vishvambhari Goshala. From these two days exposure visit done by farmers were able to learnt and gain new insights; on Indigenous cow breed, hydroponics, watershed management and vadi project. The exposure visit was attended by 52 farmers from Tena and Malgama village of olpad block.

56 new Cattle treated through Artificial insemination during month of June 2019.

After under going PD it was founded 25 cow are being pregnant.

23 New calves born during this month.

250 Animals covered under Deworming Distribution.



SuPoshan

6/19

SuPoshan

- Undertaking initiatives aimed at curbing and curing anemia and malnutrition
- Program is operational in 11 states, 20 sites covering 1212 villages (104 slums)

- 11 number of Sangins working in the villages
 - 34 number of FGDs were held
 - 1 children moved from SAM to MAM
 - 544 HB screen adolescent and RPA women
 - 54 Aentropometric Measurement
 - Anemia to Moderate : 2
 - Anemia Mild to No Anemia : 3
 - Mild to No anemia : 2



CID (1/1)

06/19

Community Infrastructure Development

- Inaugurated of Water storage tank and pump house for village community at Vasva village.

- With the alarming status on acute DW at vasva village team Hazira focus on immediate solution against the problem faced by villager by constructed Permanent structure. by doing this villages are now in a safer zone by storing clean drinking water in this storage tank.
- Inauguration done by Mr. Pranav Choudhary (CEO, AHPPL), Mr. Rajubhai Patel (Sarpanch, Vanswa), Mr. Mehendrabhai Patel (Deputy Sarpanch, Vanswa) and Panchayat Members along with women's members of vasva village.



Media stories published (1/6)

06/19

DNA news paper
Date: 16/06/2019
Page # 04

- Students have participated in various competitions and design cards for their Father.



DivyaBhaskar
Date: 17/06/2019
Page # 11

- Students have prepared Father's card and gave it to their Father



Media stories published (2/6)

06/19

Dhabkar
19/06/2019
Page # 03

- PRAVESHOTSAV was celebrated at Adani Navchetan Vidyalaya, Junagam of Choryasi



LokPrahari
19/06/2019
Page # 04

- PRAVESHOTSAV was celebrated at Adani Navchetan Vidyalaya, Junagam of Choryasi



Media stories published (3/6)

06/19

PratapDarpan
19/06/2019
Page # 06

- PRAVESHOTSAV was celebrated at Adani Navchetan Vidyalaya, Junagam of Choryasi taluka.



Samna Hindi Dainik
19/06/2019
Page # 12

- PRAVESHOTSAV was celebrated at Adani Navchetan Vidyalaya, Junagam of Choryasi taluka.



Media stories published (4/6)

06/19

SamnaDainik
19/06/2019
Page # 01

- PRAVESHOTSAV was celebrated at Adani Navchetan Vidyalaya, Junagam of Choryasi



Divya Bhaskar
20/06/2019
Page # 02

- PRAVESHOTSAV was celebrated at Adani Navchetan Vidyalaya, Junagam of Choryasi



Media stories published (5/6)

06/19

<p>City Bhaskar 20/06/2019 Page # 01</p>	<ul style="list-style-type: none"> • Mother's frustration reflects in child's behavior 	
<p>Pratap Darpan 26.06.2019 Page # 04</p>	<ul style="list-style-type: none"> • Tree Plantation Activity at Navchetan Vidhyalaya in Junagam. 	

Media stories published (6/6)

06/19

<p>City Bhaskar 20/06/2019 Page # 01</p>	<ul style="list-style-type: none"> • Inauguration of water tank in vanswa village. 	
<p>SUMMARY</p>	<ul style="list-style-type: none"> • 10 local newspaper carried stories on the • Report of PRAVESHOTSAV , tree plantation and Inauguration of Water storage tank. was carried out in 11 news papers and Report of Father's day was published in 2 News papers. Under school initiatives. • A total of 13 stories were carried across 8 newspapers • Till date 13 stories have been carried in 8 newspapers 	

Education

06/19

General Information:

Number of programs budgeted in this FY: 03

Number of programs started: 01

Major milestones achieved during the month: Initiated coaching class for Halpati community students.

Any milestones missed: Remedial coaching class for tribal students at Sonagadh Block.

Reason: Delay in decision making

Programs (events, multi-month projects) which were supposed to have started but not yet started

S No	Name of the program	Expected Start Date/Month	Support needed from HO
1	Coaching class for NMMS Exam and Javahar navoday exam preparation (SDG4)	August, 2019	Help require for Reading materials and proper resource agency for such coaching class.
2	Promotion of sports in schools (SDG-3)	July, 2019	visibilty and media coverage

SLD

06/19

General Information:

Number of programs budgeted in this FY: 3

Number of programs started: 2

Major milestones achieved during the month: Tree planation at village level

Any milestones missed: Agriculture project not started

Reason: Selection of agency

Programs (events, multi-month projects) which were supposed to have started but not yet started

S No	Name of the program	Expected Start Date/Month	Support needed from HO
1	Animal husbandry Project, Junagam , Choryasi block.	July, 2019	documentation and success story of AF intervention
2	Sustainable Agriculture	Mid of the July -	
3	Developing & Strengthening SHGs	July 2019	



Monthly Program Review

Site Name: Hazira
Month/Year: July-2019

Highlights of the month

07/19

Education

- Materials distribution to needy children at Aliabet and Navjagruti Vidhyavihar Hazira school

Sustainable Livelihood

- Inaugurated cattle breed center in collaboration with BAIF at Junagam village, TDO Chorayshi G.M.Borad,Veterinary officer Shri.Bhatt along with village Sarpanch and local leader were present in the program.
- District Livelihood manager Surat visited Rajagari village

Education (1/7)

07/19

Remedial Coaching Classes for needy children

• Strengthening of Primary education

- Remedial coaching classes started from June, 2019 for students of St. 9th & 10th at suvali village.
- Remedial coaching classes started for children from halpati community of Suvali, Damka and Vanswa villages providing one full time teacher for Halpati school Hazira village
- Remedial coaching classes started for five Tribal villages at Sonagadh block of Tapi District.
- Shortlisted potential students for JNV and NMMS exam. 25 students for JNV and 35 For NMMS.
- Notebooks distributed to 60 needy students of Nav Jagrutividhyavihar Hazira school.



Education (1/7)

07/19

Remedial Coaching Classes for needy children

• Strengthening of Primary education

- Education materials distributed to 40 needy Children At. Aliabet as per recommendation of Bhavesh Bhai.
- Aliabet is a Village located in the Taluka of Vagra, in the district of Bharuch district, in the state of Gujarat state with a total population of 411. There are 92 houses in the Village.
- There are no any basic facility like school, Sanitation, drinking water , Pakka road and House.
- Community living there since 200 years they are migrated from kutch to aliabet before 200 years.
- Frisbee training program started with 3 schools of Junagam and Suvali villages.



Education (2/7)

07/19

Navchetan
Vidyalaya,
Primary wing

Extra curriculum activities

- An activity that is done for enjoyment without thinking about the end result could be called play. For generations there is a current of thought that while play is fun, it is also a waste of time that could be spent more productively doing something useful, or gainful, for that matter.
- Mehndi Competition was held on 13/07/2019 to inculcate among the learners interest in traditional customs of India exhibited on various festive occasions at multipurpose hall of Navchetan Vidyalaya, Junagam.
- To enhance the creative and imaginative skills of children and following the tradition of celebrating different festivals in various ways, 'The Dish decoration Competition' was conducted in primary wing of Navchetan Vidyalaya, Junagam for the students of classes III to V and VI to VIII on 15/07/2019.



Education (3/7)

07/19

Navchetan
Vidyalaya,
Primary wing

Judo competition at District Level

- 12 students of Adani foundation sponsored Navchetan Vidyalaya, Primary wing have participated in Judo competition at Surat District in under 15 years age group, organized by Judo association, Surat on 01/07/2019 among them 08 students were declared winner.
- These 08 students will represent Surat district in state level Judo championship in August-2019 at Baroda.

List of winner students players				
GR No	Std.	Surname	Student's Name	Father's Name
713	7	More	Srushthi	Sanjay
445	7	Surp	Krunalkumar	Girishbhai
710	7	Chaudhari	Priyanshi	Azulbhai
811	6	Pansara	Drashthi	Rasik
737	6	Savaliya	Happyben	Hiteshbhai
487	8	Talwar	Mukutiben	Sanjaykumar
824	8	Parmar	Prachna	Rakeshbhai
826	8	Rachod	Tanisha	Nareishbhai



Education (7/7)

07/19

Navchetan
Vidyalaya,
Primary wing

GURU POORNIMA Celebration And Fire Safety awareness and Extinguishers Training

- Celebrated to acknowledge the importance of GURUs and the selfless imparting of wisdom and knowledge by them, Guru Purnima traces its roots back to the Vedic era.
- At primary wing of Navchetan Vidyalaya, Junagam Ms. Priyanka Patel (Principal) gave speech which highlighted the importance of the Guru in our lives. Speeches and shlokas were read out from the Gita and the puranas by teachers and students.
- Fires can cause devastating effects to any type of premises. However, schools in particular are at significant risk. They are often filled with numerous fire hazards and potentially hundreds of students. Mr. Anshuman Sharma, Senior fire officer, AHPPL, Hazira and Dr. Sajid, from AHPPL, Hazira explained about safety precautions to be carried out at the time of fire. He also demonstrated, How to use fire extinguishers? Principal, teacher and one student also took training to use those extinguishers.



Udaan

07/19

Project
Udaan

- To encourage young talent of the locality in building perspective of Entrepreneurship by engaging them through exposure visit under the Udaan Project.

- Total 461 Participants from 9 institute visited hazira port under udaan Project.
- One government school from tribal area (Nizar village of Mahuva block) visited Port.



SLD (1/3)

07/19

Kamdhenu project, Barbodhan

- Enhance profitable livelihood perspective among beneficiaries through cattle breed improvement.

- Adani Foundation organized one training program at village Ariyana of Olpad block. During training major discussion on AI, benefits of sorted sex semen and importance of timely vaccination. The training was attended by 42 farmers.
- 70 new Cattle treated through Artificial insemination during month of July 2019. (20 cow and 50 buffalo)
- After under going PD it was founded 18 cow are being pregnant. (6 cow and 12 Buffalo)
- 28 New calf born during this month.
- (4 Cow 1 female 3 male 24 buffalo 12 male 12 Female)



SLD (2/3)

07/19

Kamdhenu project, Junagam

- Enhance profitable livelihood perspective among beneficiaries.

- Inaugurated cattle breed center in collaboration with BAIF at Junagam village. TDO Chorayshi G.M.Borad, Veterinary officer Shri. Bhatt along with village Sarpanch and local leader were present in the program.
- TDO appreciated AF efforts and promise that all the require support will be given from government end among Cattle rearing communities.
- 44 Cattle covered through Artificial insemination during July month.
- CBC will be providing door step service of 8 core village of Hazira kantha area.



SLD (3/3)

07/19



- GLPC District Livelihood manager Mr. pravin Vasava ,Finance and Legal Adviser Mr. Dhiraj Rakhasiya and TLM Falguni Desai Visited Rajgari village during month of July 2019.
- Discused regarding Exposure visit for SHGs leaders for Income Generation Activity
- Discussion on Organic Garlic production and marketing strategy .
- Benefit of Government Insurance Scheme and I khedut Portal for leverage benefits of government scheme.

Community Infrastructure Development

07/19

CID

- Providing better Infrastructure to community

- Paver block work in Bhatlai village has been completed.
- House repairing work at hazira is under progress.
- Spill over CID 95% work has been completed remaining work will be completed by 10th August.



SuPoshan

07/19

SuPoshan

- Undertaking initiatives aimed at curbing and curing anemia and malnutrition
- Program is operational in 11 states, 20 sites covering 1212 villages (104 slums)

- 11 number of Sanginis working in the villages

This month

- 28 number of FGDs were held
- 2 children moved from SAM to MAM
- 623 HB and BMI screen adolescent and RPA women
- 101 Aentropometric Measurement
- Anemia to Moderate Mild : 1
- Anemia Mild to Anemia : 2
- Mild to Mild to no Anemia : 1
- Below BMI to Healthy BMI- 2



media stories published (3/4)

07/19

Gujarat Guardian,
Surat
13-07-2019

- Inauguration of CBC center at junagam village.



Sindha Samachar
Surat
14-07-2019

- Inauguration of CBC center at junagam village.



Sample of media stories published (2/2)

July-2019

DivyaBhaskar
Date: 26/07/2019
Page#02

- Fire safety awareness program was arranged in school

City Bhaskar,
(Surat edition)
Date: 26/07/2019
Page#01

- Practice training was provided to the students for Fire



Sample of media stories published (1/2)

July-2019

DivyaBhaskar
Date: 17/06/2019
Page # 11

- Students have participated at District level Judo competition and won for state level competition.



DivyaBhaskar
Date: 14/07/2019
Page # 02

- Mehendi competition was held during GAURIVRAT

Sandesh
Date: 22/07/2019
Page # 05

- નવચેતન અદાલી વિદ્યાલયમાં મેંદી સ્પર્ધાનું આયોજન આયોજનમાં બેઠી સુવર્ણ કલિન ખાતે અને અને કલ્પ અને રાજ કલ્પના સોને નેચ વેલ અને નવચેતન અદાલી વિદ્યાલય પુરાણમાં મેંદી સ્પર્ધાનું આયોજન કરવામાં આવ્યું હતું. જેમાં પો. રવી દયા કુલ રાજ વિદ્યાર્થીઓએ ભાગ લીધો હતો. આ સ્પર્ધા કલિન ચૌધરીએ અને વિજયભાઈ આયોજન વેલન વોર્ગમાં હતી.



media stories published (4/4)

07/19

Samrat Darpan,
Surat
13-07-2019

- Vidhya Bharti Hindi Vidhyalaya visits hazira port



SLD

07/19

General Information:

Number of programs budgeted in this FY:6

Number of programs started:2

Major milestones achieved during the month: Inaugurated CBC at Junagam village

Any milestones missed: NIL

Reason:

Programs (events, multi-month projects) which were supposed to have started but not yet started

S No	Name of the program	Expected Start Date/Month	Support needed from HO
1	Developing & Strengthening SHGs	August 2019	
2	Community Engagement Program	November 2019	Support require for materials procurement for cricket tournament
3	Livelihood activities for community	September 2019	Need liaising with SEWA for exposure visit of SHG leaders for income generation activities.
4	Sustainable Agriculture	August 2019	

Community Health
07/19
General Information:

Number of programs budgeted in this FY:2

Number of programs started:0

Major milestones achieved during the month:

Any milestones missed: Medical camp for truckers

Reason: Due to delay of medicine supply from vendor

Programs (events, multi-month projects) which were supposed to have started but not yet started

S No	Name of the program	Expected Start Date/Month	Support needed from HO
1	Medical camp for truckers	Frist week of August 2019	
2	De-addiction	September 2019	
3			
4			

Education
07/19
General Information:

Number of programs budgeted in this FY:5

Number of programs started:4

Major milestones achieved during the month: Materials distributed to needy children

Any milestones missed: NIL

Reason:

Programs (events, multi-month projects) which were supposed to have started but not yet started

S No	Name of the program	Expected Start Date/Month	Support needed from HO
1	Coaching Class for JNV and NMMS	Second week of August 2019	
2			
3			
4			

CID

07/19

General Information:

Number of programs budgeted in this FY:5

Number of programs started:2

Major milestones achieved during the month: Paver blocks road has been completed

Any milestones missed: NIL

Reason:

Programs (events, multi-month projects) which were supposed to have started but not yet started

S No	Name of the program	Expected Start Date/Month	Support needed from HO
1	DLSS Junagam	After clearance land title	Need technical support from HO for preparation of design and estimate.
2	School building Junapura village	September 2019	
3	Damka community hall	September 2019	

EVP

07/19

General Information:

Number of programs budgeted in this FY:1

Number of programs started:0

Major milestones achieved during the month:

Any milestones missed:

Reason:

Programs (events, multi-month projects) which were supposed to have started but not yet started

S No	Name of the program	Expected Start Date/Month	Support needed from HO
1	EVP	July 2019	Need support for implementing EVP at Hazira site.
2			
3			

EVP

07/19

General Information:

Number of programs budgeted in this FY:1

Number of programs started:0

Major milestones achieved during the month:

Any milestones missed:

Reason:

Programs (events, multi-month projects) which were supposed to have started but not yet started

S No	Name of the program	Expected Start Date/Month	Support needed from HO
1	EVP	July 2019	Need support for implementing EVP at Hazira site.
2			
3			

Monthly Program Review

Site Name: Hazira

Month/Year: 08/19

Highlights of the month

08/19

Community Engagement/ Others	<ul style="list-style-type: none"> Team Hazira celebrated National sports day in collaboration with NYK Surat at village Dihen in olpad block.
Education	<ul style="list-style-type: none"> Initiated Coaching classes for preparation of Jawahar Navoday Entrance exam
Community Health	<ul style="list-style-type: none"> Organize medical camp for truckers
Sustainable Livelihood	<ul style="list-style-type: none"> Formation of VO at village Rajgari for income generation activity

Community Engagement (1/1)

08/19

Community Engagement	<ul style="list-style-type: none">celebrated National sports day in collaboration with NYK Surat	
<ul style="list-style-type: none">Team Hazira celebrated national sports day in collaboration with NYK Surat. at village Dihen in olpad block. During the event, we organized Volley ball sports with four teams where 40 players participated in the event. NYK appreciated AF effort for engaging youth in sports. To improve the status of youth in sports, NYK offer all possible support for mobilizing youths in days to come.		

Education (1/5)

08/19

Coaching class for Jawahar navoday exam preparation

- Inauguration of coaching class for Jawahar Navoday Entrance exam

- Coaching classes for preparation of Jawahar Navoday Entrance exam started in mora village for Hazira kantha area. Students from 8 village will be benefited through this coaching classes.
- Sh. Mani Lal Lad (CRC Coordinator Mora , Principals from kantha area schools along with 39 students ,parents and teachers were present in inaugural function.
- School uniforms distributed to 60 needy students of Nav Jagruti vidhyavihar Hazira school.
- Frisbee coaching program going on in 3 schools of Junagam and Suvali villages of choryasi block.



Education (4/5)

08/19

Navchetan Vidyalaya, Primary wing

- Extra curriculum activities

- Scholastic and co scholastic activities have an equal importance in school program for the all-round development of the child. Keeping this in view, primary wing of Navchetan Vidyalaya, Junagam conducted the Fancy Dress Competition for the children. The purpose of conducting the competition was not only to blend learning with fun but also to develop confidence in the students by giving them an opportunity to get on the stage and speak in front of an audience.
- Raksha Bandhan is one of the most endearing ways to celebrate the bond between brothers and sisters, a bond which is one of the deepest and noblest of human emotions. The festival was celebrated with great enthusiasm and fervor at Navchetan Vidyalaya, Primary wing, Junagam.
- On 15th August 2019, Navchetan Vidyalaya, Junagam, celebrated Independence Day with zeal and spirit befitting the occasion. Ms. Hani Patel (Topper of standard-10th at school level) has hoisted flag. Mr. Narendra Mehra (Branch manager, Bank of Baroda) was chief guest trustees of NVM and parents graced the occasion.



Education (5/5)

08/19

Navchetan Vidyalaya, Primary wing

- Ganesh mahotshav and Janmashtami Festival celebration

• In order to celebrate the birthday of Lord Krishna, a celebration was organized in primary section of Navchetan Vidyalaya, Junagam for Children on 23/08/2019. All children of KG section came in traditional dresses. Some boys came dressed as 'Krishna' and some girls came dressed as 'Radha'. Beautiful decorations were put up to make this event more cheerful and colorful. Children danced on the tunes of GARBA.

• Activity teacher has made idol from pure soil of GANESHji and taught the students to make idols from mud and other biodegradable materials in addition, seeds of flowers or TULSI were imparted inside the idol so that one can immerse it in pot and flower or TULSI will grow in that pot. Students of standard-4 to 8 made 108 idols of GANESHji, 4 idols were given as a goodwill gesture to devotees and others were installed at students' homes.



Udaan

08/19

Project Udaan

- To encourage young talent of the locality in building perspective of Entrepreneurship by engaging them through exposure visit under the Udaan Project.

• Total 156 Participants from 3 School & Institute visited hazira port under Udaan Project during this month.



Community Health (1/1)

08/19

Community Health

• Medical camp for truck drivers and port labor's

- Organized Free medical camp for Truckers and port labor's at Port area.
- Total 145 needy patients get benefited through this medical camp.
- During this camp checkup on Vision, Dental and General Checkup conducted also distributed medical kit and necessary medicine free of cost.



SLD (1/3)

08/19

Kamdhenu project, Barbodhan

• Enhance profitable livelihood perspective among beneficiaries through cattle breed improvement

- Total 35 nos. of calf selected for calf rearing program under Animal husbandry Program at Besana, Malgama and Segva chchama village.
- Distributed 12480 sapling to 130 house hold for kitchen garden program at Malgama, Segwachhama and Ariyana villages.
- 80 new Cattle treated through Artificial insemination during month of August 2019. (21 cow and 59 buffalo)
- After under going PD it was founded 26 animal are being pregnant. (6 cow and 20 Buffalo)
- 39 New calf born during this month. (9 Cow 4 female 5 male 30 buffalo 15 male 15 Female)
- 66 new Cattle treated through Artificial insemination during month of August 2019 at Junagam center (52 cow and 14 buffalo)



SLD (3/3)

08/19

SLD Initiatives

• Sustainable Livelihood Development (SLD) Initiatives

- VO formation work successfully completed in Village Rajgari for income generation activity in collaboration with DRDA Surat.
- VO is a Federation level body of 10 SHG
- DRDA will be disburse 5 lakh Loan after assessment of VO for income generation activity



Media stories published (1/2)

08/19

DivyaBhaskar's
Surat Edition
Date: 11/08/2019
Page # 02

- Fancy dress competition was arranged at Navchetan Adani Vidyalaya, Junagam, Students participated by being Plastic, Cellphone, Newspaper, Signal light, CHANDRAYAN.



DivyaBhaskar
Date: 15/08/2019
Page # 02

- Rakhi making competition was arranged at Navchetan Adani Vidyalaya, Junagam



Media stories published (2/2)

08/19

CityBhaskar
Date: 16/08/2019
Page#02

- Independence day celebration at Navchetan Adani Vidyalaya, Junagam



CityBhaskar
Date: 01/09/2019
Page#02

- Students of Navchetan Vidyalaya, Junagam have made 108 idols of GANESHji from soil



SLD

07/19

General Information:

Number of programs budgeted in this FY:6

Number of programs started:5

Major milestones achieved during the month: Village organization (VO) formed in Rajgari village

Any milestones missed: NIL

Reason:

Programs (events, multi-month projects) which were supposed to have started but not yet started

S No	Name of the program	Expected Start Date/Month	Support needed from HO
1	Livelihood activities for community	September 2019	Need liaising with SEWA for exposure visit of SHG leaders for income generation activities.



Monthly Program Review

Site Name: Hazira
Month/Year: 09/19

Highlights of the month

09/19

Education

- Organized exposure visit for parents and students at Borkhadi Jawahar Navoday Vidhyala
- Students from Navchetan Vidhyalay participated at Block and district level Khelmahakumbh.

Community Health

- Organize medical camp for truckers

Sustainable Livelihood

- Organized exposure visit for cattle owner at Lachakadi BAIF Center
- Training on entrepreneurship development for women's leaders
- Concept seeding workshop on *natural farming* and Animal Husbandry Project.

Swachhagraha

- Swachhagraha felicitation event was held in Surat. The program was inaugurated by Mr. Banchha Nidhi Pani Commissioner of SURAT Municipal corporation.

Education (1/3)

09/19

Coaching class for Jawahar navoday exam preparation

- Exposure visit at Borkhadi Jawahar Navoday Vidhyalay for parents and students

Team Hazira initiated coaching classes/ crash course for entrance exam of Jawaharlal Navoday Vidyalaya. To ensure collective action towards strengthening education status of the area, Parents, teacher and students visited Borkhadi JNV at Tapi district. The other objectives of this visit was know about facilities available at JNV, curriculum and criteria for getting admission. Fruitful discussion took place during the visit. A Total of 32 student, 4 teacher and 12 parents participated in the visit.



Education (2/3)

09/2019

Navchetan Vidyalaya, Primary wing

GANPATI idol making, install and emersion Activity based innovative Education methodology

- Primary wing students of Navchetan Vidyalaya, Junagam, have made 108 GANPATI idols from sand and other biodegradable materials. Among them one idol was installed on 02/09/2019 by PANDITji in presence of teachers and students in multipurpose hall. Students did POOJA whole week.
- On 11/09/2019 immersion of the same idol was done by students with much fervor and excitement in big water bucket in school playground. The festival which began on GANESH CHATURTHI concludes on 11/09/2019 by emersion of the idol without damaging mother nature.
- At primary wing of Navchetan Vidyalaya, Junagam we believe, "Students want to learn and if we teach them differently they will perform better." Thus teacher always try to create environment in which students learn indirectly.



Education (3/3)

09/2019

Navchetan
Vidyalaya,
Primary wing

Teacher's day celebration and Students
participation
at Block & District level KHELMAHAKUMBH

- 'A good teacher can inspire hope, ignite imagination and instill love for learning'. The primary wing of Navchetan Vidyalaya, Junagam celebrated Teacher's day with great fun and enthusiasm on 05/09/2019.
- A special assembly was conducted by students on this day. The assembly began with 'Ganesh Vandana' followed by the thought and talk highlighting the contribution of teachers in a student's life.
- 31 students of primary wing participated in various categories like under 9, Under 11, Under 14 in Long jump, Standing jump, 400 & 600 Mtrs running. Among them 5 players stood first, 4 players stood second and 2 students got third rank.
- 11 students of primary wing also participated in JUDO competition arranged by Government of Gujarat under flagship of KHELMAHAKUMBH among them 06 student players won at District level and will represent at state level competition.



Community Health (1/1)

09/2019

Community
Engagement

Medical camp for truck drivers and
port labor's

- Organized Free medical camp for Truckers and port labor's at Port area.
- Total 152 needy patients get benefited through this medical camp.
- During this camp checkup on Vision, Dental and General Check-up conducted. Also, distributed medical kit and necessary medicine free of cost.



SLD (1/4)

09/2019

Kamdhenu project, Barbodhan

Enhance profitable livelihood perspective among beneficiaries

- Adani Foundation organized exposure visit at BAIF Lechakadi Center, Chasvad KVK, Padhar, Nani tambari and Balda Vishvambhari Goshala. From these two days exposure visit done by farmers were able to learn and gain new insights; on indigenous cow breed, hydroponics, and vadi project. The exposure visit was attended by 52 farmers from Ariyana, Ambheta village of Olpad block.
- 81 new Cattle treated through Artificial insemination during month of September 2019 (26 cow and 55 buffalo)
- After under going PD it was founded 30 animal are being pregnant.(13 cow and 17 Buffalo)
- 38 New calf born during this month (9 Cow 5 female 4 male 29 buffalo 14 male 15 Female)
- 63 new Cattle treated through Artificial insemination during month of September 2019 at Junagam center (44 cow and 19 buffalo)



Sustainable livelihood (2/4)

08/19

Sustainable livelihood

Concept seeding workshop on natural farming

On 10th September 2019 Hazira Team organized a leaders' workshop on Livestock Development and Natural farming at Tena village of Olpad Block. 70 Farmers attended the session Mr. D.K. Patel, Deputy Chief Coordinator BAIF was resource person. Major topic covered during the training:

- SRI in Paddy crop
- Importance of Sex Sorted semen
- Clean milk
- Cattle feed management
- Deworming
- Animal vaccination
- Silage preparation
- Basic conceptual clarity on natural farming



SLD (3/4)

08/19

SLD Initiatives

Sustainable Livelihood Development (SLD) Initiatives

One of SHG Leaders from Rajgari village Mrs. Kailash ben Patel has attended training on Bank Sakhi (Bank Mitra). She got training on how to deal with customer and day-to-day working strategy. She got certificate and now she became an authorized person for bank where she will perform as a mediator to bank and village community.

Such initiative taken up by Mrs. Kailash ben Patel has helped her gain confidence and look forward for a better change in her own life.



SLD (4/4)

08/19

SLD Initiatives

Sustainable Livelihood Development (SLD) Initiatives

Team AF organized three day training on entrepreneurship development where 20 women from Rajgari village attended this training. District livelihood manager Mr. Pravin Vasava along with block level GLPC officer Mrs. Falguni Deasi attended the program. Women leaders got clear direction on small micro enterprise at individual and group level.



Swachhagraha felicitation event

08/19

Swachhagraha

Creating awareness among community regarding cleanliness

Swachhagraha felicitation event was held in Surat, Gujarat State with participation of over 100+ schools in the event. The programme was inaugurated by Mr. Banchha Nidhi Pani - Municipal commissioner - Surat; Mr. Hitesh Koya- District Development Officer (Chief Guest), Mrs. Gayatri Jariwala - Deputy Municipal Commissioner- Surat, Mr Pranav Choudhary - CEO Adani Hazira Port Private Limited, Deputy DPEO - Mrs Swati Patel, Mr Jignesh Vibhandik - National project Coordinator, Mr Bhavesh Donda - DGM AT Adani Foundation on 30th September, 2019 at 10:00am at Samruddhi Bhavan.



Swachhagraha felicitation event

08/19

Swachhagraha

Surat Municipal Commissioner, Mr Banchha Nidhi Pani had shared his new initiatives "khushiyo ka pitara", "Samvedna" and also discussed about the plastic waste and 3'R "Replace, Reuse and Recycle". At the heart of this project is the idea of 'creating a culture of cleanliness' in the upcoming generations of India." All the other Dignitaries congratulated and motivated the students, preraks, stakeholders and all team of Adani group. Swachhagraha will continue to be implemented through Swachhagraha Preraks and Swachhagrahis who will carry forward the legacy. The Schools, teachers, and the students will continue to play crucial role in achieving the objectives of the program.



Udaan

09/2019

Project Udaan

To encourage young talent of the locality in building perspective of Entrepreneurship by engaging them through exposure visit under the Udaan Project.

- PP Savai School Surat, Sharda Vidhyalay, Institute of design and Technology Surat and Marin Academy trust Udavada visited AHPPL
- Total 275 participants from 6 Schools & institutes visited Hazira port under the Udaan Project during this month.



SuPoshan

08/19

SuPoshan

- Undertaking initiatives aimed at curbing and curing anemia and malnutrition
- Program is operational in 11 states, 20 sites covering 1212 villages (104 slums)

11 number of Sangini's on board;

- 28 number of FGDs were held
- 690 BMI and HB and screen adolescent and RPA women
- 198 Aentroprometric Measurement
- Anemia - moderate to mild : 1
- Anemia - Mild to No Anemia : 1
- Below BMI to healthy BMI : 1
- SAM (Migrant) : 1



Media stories published (1/2)

09/2019



Media coverage regarding celebration
of Sports day by Samna Times Hindi
news paper Surat Edition
Date: 06/09/2019



Media coverage regarding celebration
of Sports day by Samna daily Gujarati
news paper Surat Edition
Date: 06/09/2019



Media coverage regarding celebration of
Sports day by Gujarat Mitra news paper
Surat Edition
Date: 06/09/2019

Media stories published (1/2)

09/2019



Media coverage regarding celebration of Sports day by Gujarat
Guardian paper Surat Edition
Date: 12/09/2019



Media coverage regarding celebration of Sports day by Gujarat
Mitra news paper Surat Edition
Date: 12/09/2019

**Summary Budget and Expense From April 2019 to September 2019 for CSR Activities at Hazira Port**

Sr No	Particulars	Budget In lacks	Expense In lacks during compliance period
A	Admin & HR	43.80	15.30
B	Education	57.18	21.90
C	Community Health	6.00	1.21
D	Sustainable Livelihood Development	35.03	0.19
E	Community Infrastructure Development	214.41	23.43
	Total	356.42	62.03
F	Tribal development- spill over	0.00	0.00
	Total	356.42	62.03

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

ANNEXURE-4

Environmental Monitoring / Analysis Results For The Period From April 2019 To September, 2019.

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

ANNEXURE-4 (A)

**Ambient Air Quality Monitoring / Analysis Results For The Period From April 2019 To
September 2019**


POLLUCON LABORATORIES PVT. LTD.
4A. AMBIENT AIR QUALITY MONITORING: -
Table-1.1: Ambient Air Quality Monitoring Results At Near Port Gate No.: 2

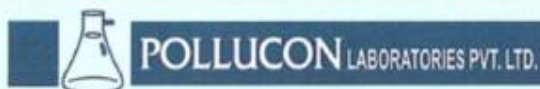
Sr. No.	Date of Sampling	Location-1: Near Port Gate No.: 2 (N 21° 05.426'E 72° 37.739')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2019	82.85	46.56	0.57	BDL*	2.18	10.40	0.50	BDL*	32.43	26.25	35.46	19.44
2	04/04/2019	94.56	52.50	0.84	BDL*	2.56	10.82	0.88	BDL*	17.62	17.51	40.21	15.66
3	08/04/2019	79.33	40.49	BDL*	BDL*	BDL*	BDL*	1.00	BDL*	38.38	16.56	29.48	24.32
4	11/04/2019	86.35	47.18	0.62	BDL*	2.34	10.58	0.56	BDL*	28.02	12.31	38.22	29.37
5	15/04/2019	76.33	41.29	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	48.43	25.67	42.31	21.64
6	18/04/2019	92.48	56.68	0.76	BDL*	2.84	11.54	0.62	BDL*	26.31	15.41	26.74	25.69
7	22/04/2019	80.15	44.30	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	36.42	11.77	39.53	28.46
8	25/04/2019	95.43	54.21	0.56	BDL*	2.24	10.95	0.87	BDL*	45.33	23.64	34.67	22.57
9	29/04/2019	83.45	39.32	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	33.87	19.58	37.55	30.41
10	02/05/2019	89.32	50.35	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	25.73	25.61	44.63	26.48
11	06/05/2019	91.63	54.25	0.76	BDL*	2.48	10.58	0.65	BDL*	37.21	21.55	29.47	17.28
12	09/05/2019	80.31	43.45	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	13.53	20.21	35.68	22.59
13	13/05/2019	75.34	40.24	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	34.64	16.34	39.52	20.62
14	16/05/2019	86.37	48.22	0.64	BDL*	2.34	10.29	0.41	BDL*	46.33	24.49	36.86	27.79
15	20/05/2019	79.32	39.35	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	31.34	17.38	34.21	18.56
16	23/05/2019	93.65	51.19	0.58	BDL*	2.15	10.34	0.37	BDL*	20.58	19.61	31.58	21.34
17	27/05/2019	83.68	44.54	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	40.28	13.54	38.36	23.43
18	30/05/2019	90.24	47.56	0.65	BDL*	2.64	10.46	0.46	BDL*	55.36	15.36	41.55	25.63
19	03/06/2019	88.34	44.08	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	45.85	12.33	28.62	16.32
20	06/06/2019	69.34	51.36	0.52	BDL*	2.28	10.46	0.53	BDL*	38.46	23.51	38.31	23.44
21	10/06/2019	75.43	42.08	BDL*	BDL*	BDL*	BDL*	0.86	BDL*	33.56	17.68	27.21	14.27
22	14/06/2019	90.34	53.49	0.76	BDL*	2.18	10.70	0.94	BDL*	41.21	19.64	32.46	17.72
23	17/06/2019	79.34	50.86	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	30.34	13.64	40.35	25.37
24	20/06/2019	86.32	43.50	0.58	BDL*	2.34	10.36	0.39	BDL*	28.48	21.63	30.62	21.37
25	24/06/2019	78.36	37.14	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	24.55	24.29	34.58	26.24


Authorized Signatory


● PSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 ● GPCB approved schedule II auditor ● ISO 14001 ● OHSAS 18001 ● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gayatri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07916605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com



26	27/06/2019	62.68	26.85	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	34.67	14.45	25.43	24.34
27	01/07/2019	79.61	45.67	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	31.59	17.55	38.65	19.42
28	05/07/2019	59.33	27.65	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	46.35	15.33	30.26	26.25
29	10/07/2019	76.42	38.23	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	54.27	21.85	36.29	23.35
30	11/07/2019	84.28	47.35	0.56	BDL*	2.46	10.25	0.65	BDL*	40.28	18.35	41.21	21.73
31	15/07/2019	73.65	34.40	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	33.44	25.67	44.38	24.28
32	18/07/2019	90.35	50.36	0.62	BDL*	2.32	10.18	0.73	BDL*	48.34	23.88	35.33	16.38
33	22/07/2019	82.37	44.50	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	36.31	19.83	29.39	20.63
34	25/07/2019	94.26	53.37	0.78	BDL*	2.56	10.36	0.38	BDL*	29.41	26.38	42.46	27.83
35	29/07/2019	68.37	30.37	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	38.28	13.69	32.44	22.52
36	01/08/2019	81.64	48.56	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	25.85	21.54	35.63	21.34
37	05/08/2019	77.55	34.34	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	14.34	18.03	28.76	25.47
38	08/08/2019	66.48	31.20	BDL*	BDL*	BDL*	BDL*	1.01	BDL*	21.58	23.62	31.24	18.32
39	12/08/2019	87.57	50.32	0.62	BDL*	2.34	10.36	0.78	BDL*	32.74	15.95	23.37	15.67
40	16/08/2019	62.34	30.41	BDL*	BDL*	BDL*	BDL*	0.98	BDL*	38.31	19.45	29.66	23.29
41	19/08/2019	93.42	53.41	0.78	BDL*	2.66	10.58	0.86	BDL*	29.75	22.45	38.44	26.24
42	22/08/2019	88.58	38.94	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	19.18	16.41	33.23	28.25
43	26/08/2019	76.61	43.42	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	42.56	20.31	39.24	22.67
44	29/08/2019	80.40	46.30	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	26.23	17.36	36.21	17.54
45	02/09/2019	76.55	39.65	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	30.42	22.58	32.56	20.35
46	05/09/2019	63.43	30.53	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	44.58	14.64	38.46	24.39
47	09/09/2019	78.62	37.56	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	14.38	18.41	35.47	19.56
48	13/09/2019	86.34	52.66	0.72	BDL*	2.68	10.46	0.55	BDL*	28.52	16.83	43.47	26.58
49	16/09/2019	92.35	49.31	0.52	BDL*	2.56	10.77	0.70	BDL*	42.33	21.37	31.63	10.55
50	19/09/2019	58.34	27.85	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	23.67	24.54	28.45	21.85
51	23/09/2019	80.43	41.57	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	26.48	20.43	42.81	23.95
52	26/09/2019	90.35	50.35	0.64	BDL*	2.18	10.58	0.72	BDL*	39.88	23.58	36.52	16.49

Observation: Above given Result 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

BDL*: - Below Detection Limit: Ozone as O_3 ($\mu g/m^3$): 10
 BDL*: - Below Detection Limit - Lead as Pb ($\mu g/m^3$): 0.5
 BDL*: - Below Detection Limit - Carbon Monoxide as CO (mg/m^3): 0.01
 BDL*: - Below Detection Limit - Ammonia NH_3 ($\mu g/m^3$): 10
 BDL*: - Below Detection Limit - Benzene as C_6H_6 ($\mu g/m^3$): 2
 BDL*: - Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
 BDL*: - Below Detection Limit - Arsenic as As (ng/m^3): 2
 BDL*: - Below Detection Limit - Nickel as Ni (ng/m^3): 10

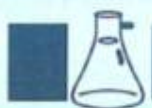

 Authorized Signatory



● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 ● CPCB approved schedule II auditor ● ISO 14001 ● OHSAS 18001 ● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.
Table-1.2: Ambient Air Quality Monitoring Results at HSE Building Terrace

Sr. No.	Date of Sampling	Location-2: HSE Building Terrace (N 21° 05.043' E 72° 38.491')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2019	76.52	37.46	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	26.53	23.48	31.64	21.35
2	04/04/2019	88.60	46.32	0.54	BDL*	2.24	BDL*	0.66	BDL*	35.64	20.29	35.64	18.36
3	08/04/2019	61.27	33.82	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	19.57	12.65	22.35	27.35
4	11/04/2019	78.66	42.59	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	22.14	10.30	25.83	23.42
5	15/04/2019	64.65	26.74	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	16.68	15.52	20.41	19.57
6	18/04/2019	85.38	45.41	BDL*	BDL*	2.46	10.59	0.73	BDL*	32.88	17.38	15.85	22.45
7	22/04/2019	70.46	30.51	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	24.57	6.38	27.52	20.51
8	25/04/2019	82.36	41.19	BDL*	BDL*	BDL*	10.38	0.76	BDL*	37.51	18.56	30.43	15.44
9	29/04/2019	75.61	29.43	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	21.36	11.81	24.27	17.24
10	02/05/2019	66.34	28.65	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	13.84	17.36	37.21	17.43
11	06/05/2019	86.22	45.35	0.67	BDL*	2.34	10.28	0.40	BDL*	32.47	12.77	21.27	27.86
12	09/05/2019	74.35	35.53	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	10.33	9.60	24.54	15.23
13	13/05/2019	63.64	30.50	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	23.82	13.67	30.35	19.57
14	16/05/2019	72.64	39.43	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	26.65	8.66	31.74	14.38
15	20/05/2019	68.93	25.34	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	29.21	19.52	36.24	25.82
16	23/05/2019	59.44	22.65	BDL*	BDL*	BDL*	10.14	0.70	BDL*	16.58	14.37	40.24	23.19
17	27/05/2019	76.33	23.62	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	27.64	10.84	16.58	26.33
18	30/05/2019	82.47	38.47	0.58	BDL*	BDL*	BDL*	0.52	BDL*	42.53	21.27	38.22	21.36
19	03/06/2019	68.31	30.03	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	29.41	16.37	33.52	18.58
20	06/06/2019	77.50	36.41	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	42.64	13.60	40.24	21.52
21	10/06/2019	59.34	39.39	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	26.58	20.19	21.66	23.53
22	14/06/2019	83.56	45.22	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	37.84	7.57	27.52	20.77
23	17/06/2019	74.53	33.18	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	21.83	11.90	36.56	13.36
24	20/06/2019	80.04	38.30	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	13.65	14.59	22.51	16.67
25	24/06/2019	61.39	25.34	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	20.25	10.25	26.44	14.37
26	27/06/2019	52.86	19.72	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	28.25	17.38	18.33	12.33
27	01/07/2019	61.59	31.33	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	18.68	12.32	34.32	23.51
28	05/07/2019	70.28	30.75	BDL*	BDL*	BDL*	BDL*	0.90	BDL*	25.39	10.54	27.69	24.36


Authorized Signatory


• FSSAI Approved Lab

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

 • GPCB approved
schedule II auditor

• ISO 14001

• OHSAS 18001

• ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart,
Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.

29	10/07/2019	65.61	27.52	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	38.43	8.95	19.36	27.67
30	11/07/2019	77.71	42.33	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	20.31	15.69	33.55	16.10
31	15/07/2019	67.55	29.32	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	30.36	13.60	30.47	22.40
32	18/07/2019	82.47	45.43	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	35.52	17.37	25.79	18.28
33	22/07/2019	75.64	35.61	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	24.36	11.33	20.58	25.31
34	25/07/2019	80.35	43.50	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	14.33	16.47	38.38	20.26
35	29/07/2019	62.49	26.43	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	34.42	19.79	35.44	19.21
36	01/08/2019	58.38	26.39	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	14.53	7.66	18.21	19.38
37	05/08/2019	67.56	31.59	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	23.41	11.55	15.68	22.45
38	08/08/2019	76.34	38.42	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	32.43	16.20	23.46	20.38
39	12/08/2019	82.36	30.66	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	25.36	9.66	17.33	13.66
40	16/08/2019	56.84	27.39	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	19.65	14.39	20.62	18.46
41	19/08/2019	78.34	44.67	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	33.51	20.46	33.53	15.81
42	22/08/2019	65.14	34.23	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	17.46	18.44	30.26	21.63
43	26/08/2019	55.36	15.35	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	26.36	13.43	25.82	24.65
44	29/08/2019	68.34	25.34	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	30.56	15.89	21.84	10.28
45	02/09/2019	82.33	42.45	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	26.92	18.32	38.25	25.39
46	05/09/2019	58.44	24.75	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	34.38	9.81	28.58	23.47
47	09/09/2019	72.34	32.47	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	24.42	21.50	41.53	12.39
48	13/09/2019	68.56	36.49	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	12.45	7.23	35.55	14.79
49	16/09/2019	79.34	43.63	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	37.60	11.35	25.64	21.53
50	19/09/2019	53.48	23.45	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	16.57	19.86	32.14	17.34
51	23/09/2019	74.57	38.34	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	19.53	13.46	23.76	19.28
52	26/09/2019	84.34	46.56	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	25.39	17.78	31.80	22.52

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

BDL* : - Below Detection Limit: Ozone as O_3 ($\mu g/m^3$): 10
 BDL* : - Below Detection Limit - Lead as Pb ($\mu g/m^3$): 0.5
 BDL* : - Below Detection Limit - Carbon Monoxide as CO (mg/m^3): 0.01
 BDL* : - Below Detection Limit - Ammonia NH_3 ($\mu g/m^3$): 10
 BDL* : - Below Detection Limit - Benzene as C_6H_6 ($\mu g/m^3$): 2
 BDL* : - Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
 BDL* : - Below Detection Limit - Arsenic as As (ng/m^3): 2
 BDL* : - Below Detection Limit - Nickel as Ni (ng/m^3): 10



Authorized Signatory



• PSSAI Approved Lab • Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 • GPCB approved schedule II auditor • ISO 14001 • OHSAS 18001 • ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635755, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com


Table-1.3: Ambient Air Quality Monitoring Results at Central Water Pump House

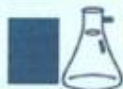
Sr. No.	Date of Sampling	Location-3: Central Water Pump House (N 21° 04.697'E 72° 38.420')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2019	67.76	33.59	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	23.45	13.51	28.35	16.58
2	04/04/2019	82.63	41.52	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	22.46	11.64	16.31	21.22
3	08/04/2019	52.21	23.61	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	30.65	9.51	25.61	30.51
4	11/04/2019	65.62	29.62	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	31.57	14.56	31.56	28.59
5	15/04/2019	70.43	30.24	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	28.92	12.53	34.52	26.23
6	18/04/2019	80.21	42.54	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	10.25	10.25	29.37	15.30
7	22/04/2019	61.33	25.76	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	15.33	8.66	19.33	22.36
8	25/04/2019	53.63	19.59	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	20.33	16.43	27.67	23.21
9	29/04/2019	64.84	35.29	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	18.56	6.53	17.36	19.33
10	02/05/2019	52.46	24.34	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	29.83	15.32	22.61	23.18
11	06/05/2019	64.25	31.29	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	17.54	10.25	11.57	15.70
12	09/05/2019	48.35	17.39	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	21.56	8.63	16.52	20.30
13	13/05/2019	54.28	26.41	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	26.33	6.77	21.56	17.20
14	16/05/2019	65.68	23.76	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	34.33	14.22	18.31	22.92
15	20/05/2019	59.28	20.54	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	22.76	7.35	15.39	16.24
16	23/05/2019	66.57	38.54	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	10.28	12.54	20.84	14.39
17	27/05/2019	56.34	15.73	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	31.58	11.24	25.27	18.02
18	30/05/2019	70.25	28.44	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	35.73	17.48	23.87	13.84
19	03/06/2019	60.34	21.32	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	22.61	8.54	24.35	12.36
20	06/06/2019	56.34	23.38	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	19.56	16.58	28.37	14.34
21	10/06/2019	63.42	28.93	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	15.37	10.64	17.67	11.57
22	14/06/2019	71.33	31.97	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	27.63	12.55	20.22	15.35
23	17/06/2019	67.61	26.11	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	24.68	18.50	27.69	20.34
24	20/06/2019	75.18	32.33	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	29.64	11.35	19.32	18.47
25	24/06/2019	68.73	29.32	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	13.23	7.49	15.66	10.33
26	27/06/2019	46.58	22.33	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	17.58	9.40	21.28	16.27
27	01/07/2019	67.31	34.57	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	26.72	10.30	27.56	21.37
28	05/07/2019	55.63	21.37	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	20.47	8.62	20.23	19.36
29	10/07/2019	47.88	23.64	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	16.25	13.72	25.39	15.34


Authorized Signatory


● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 ● GPCB approved schedule II auditor ● ISO 14001 ● OHSAS 18001 ● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.

30	11/07/2019	68.84	39.55	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	10.68	9.55	29.45	13.66
31	15/07/2019	58.79	25.65	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	27.33	17.60	23.36	17.53
32	18/07/2019	72.68	36.60	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	30.62	12.64	31.25	12.42
33	22/07/2019	52.49	22.42	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	15.34	15.57	26.73	16.52
34	25/07/2019	62.68	30.46	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	18.37	18.48	33.49	14.32
35	29/07/2019	46.39	18.30	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	24.61	7.48	28.68	10.26
36	01/08/2019	71.34	32.41	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	30.62	14.55	23.72	15.32
37	05/08/2019	52.18	29.63	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	17.55	6.55	17.66	17.30
38	08/08/2019	48.34	17.87	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	11.56	11.36	20.26	24.25
39	12/08/2019	66.34	25.44	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	15.66	13.60	31.52	22.33
40	16/08/2019	46.34	15.63	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	31.21	9.74	25.35	13.34
41	19/08/2019	69.22	41.26	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	24.51	15.45	21.57	23.46
42	22/08/2019	57.36	20.67	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	10.64	12.38	24.63	18.23
43	26/08/2019	65.31	31.33	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	21.57	10.42	22.36	20.24
44	29/08/2019	50.25	22.36	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	14.61	8.69	15.51	14.84
45	02/09/2019	70.35	36.56	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	22.33	6.39	25.46	18.48
46	05/09/2019	50.37	19.45	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	27.63	12.26	33.46	20.70
47	09/09/2019	63.63	27.66	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	17.59	10.52	28.36	10.37
48	13/09/2019	53.45	30.62	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	31.59	14.43	26.51	12.50
49	16/09/2019	60.57	23.84	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	26.52	7.53	15.95	16.84
50	19/09/2019	42.54	15.32	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	29.47	17.64	23.52	25.92
51	23/09/2019	67.81	35.83	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	13.60	8.52	27.83	13.55
52	26/09/2019	54.57	38.41	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	23.43	13.62	19.76	17.60

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

BDL*: - Below Detection Limit: Ozone as O_3 ($\mu g/m^3$): 10
 BDL*: - Below Detection Limit - Lead as Pb ($\mu g/m^3$): 0.5
 BDL*: - Below Detection Limit - Carbon Monoxide as CO (mg/m^3): 0.01
 BDL*: - Below Detection Limit - Ammonia NH_3 ($\mu g/m^3$): 10
 BDL*: - Below Detection Limit - Benzene as C_6H_6 ($\mu g/m^3$): 2
 BDL*: - Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
 BDL*: - Below Detection Limit - Arsenic as As (ng/m^3): 2
 BDL*: - Below Detection Limit - Nickel as Ni (ng/m^3): 10


Authorized Signatory


● PSSAI Approved Lab ● Recognised by MoEF New Delhi Under Sec. 12 of Environmental Protection Act-1986 ● GPCB approved schedule II auditor ● ISO 14001 ● OHSAS 18001 ● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


Table-1.4: Ambient Air Quality Monitoring Results at Container Terminal

Sr. No.	Date of Sampling	Location-4: Container Terminal (N 21° 05.187'E 72° 37.774)											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2019	62.44	40.19	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	20.26	11.52	25.43	26.34
2	04/04/2019	50.37	22.61	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	12.45	15.62	21.51	19.65
3	08/04/2019	68.33	37.52	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	23.87	7.44	15.33	22.75
4	11/04/2019	72.65	34.18	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	36.72	21.64	20.64	24.66
5	15/04/2019	58.44	23.55	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	13.71	18.64	31.83	28.23
6	18/04/2019	64.37	38.52	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	18.66	12.24	19.48	18.41
7	22/04/2019	75.62	35.42	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	30.76	16.25	22.57	30.61
8	25/04/2019	69.21	44.36	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	15.26	14.66	23.54	17.45
9	29/04/2019	57.68	26.30	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	24.65	17.23	28.66	25.47
10	02/05/2019	61.23	32.54	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	34.27	13.56	36.38	19.82
11	06/05/2019	57.37	23.31	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	24.51	14.55	16.84	12.87
12	09/05/2019	64.33	31.50	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	28.43	12.46	28.64	25.38
13	13/05/2019	59.34	18.66	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	19.27	7.55	24.55	15.46
14	16/05/2019	78.66	35.14	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	22.31	16.82	25.92	18.35
15	20/05/2019	51.26	15.64	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	35.65	10.45	17.62	24.35
16	23/05/2019	85.34	46.37	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	13.68	17.25	29.67	21.56
17	27/05/2019	71.56	38.65	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	16.33	8.57	32.43	13.86
18	30/05/2019	88.63	42.33	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	25.61	11.60	19.76	17.35
19	03/06/2019	55.42	17.65	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	12.34	14.55	30.51	15.62
20	06/06/2019	70.50	28.65	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	29.33	10.39	22.48	18.22
21	10/06/2019	53.64	36.10	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	19.68	15.21	25.35	20.62
22	14/06/2019	45.57	41.04	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	14.54	9.57	23.26	13.62
23	17/06/2019	60.64	30.20	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	10.21	7.62	33.45	16.41
24	20/06/2019	69.16	25.93	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	34.56	17.55	26.34	23.68
25	24/06/2019	47.59	18.86	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	16.54	13.32	19.53	17.49
26	27/06/2019	56.65	15.35	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	22.35	11.66	29.48	19.33
27	01/07/2019	73.54	38.65	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	13.53	7.60	24.24	17.21
28	05/07/2019	64.56	18.48	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	32.57	12.51	17.52	16.26
29	10/07/2019	70.62	35.26	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	26.32	16.36	32.77	21.51


Authorized Signatory



● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 ● GPCB approved schedule II auditor ● ISO 14001 ● OHSAS 18001 ● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gayatri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.

30	11/07/2019	54.36	26.60	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	23.45	6.52	25.67	23.79
31	15/07/2019	47.32	19.58	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	14.56	19.38	27.35	20.50
32	18/07/2019	66.37	31.54	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	38.58	15.80	22.53	14.55
33	22/07/2019	58.37	29.53	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	18.37	9.46	18.52	12.63
34	25/07/2019	68.42	33.51	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	21.52	14.38	26.29	10.69
35	29/07/2019	52.39	21.54	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	15.12	10.24	23.66	13.56
36	01/08/2019	54.38	22.63	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	10.36	10.63	27.64	13.55
37	05/08/2019	62.46	25.12	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	21.28	13.37	24.32	23.71
38	08/08/2019	52.66	20.54	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	29.48	19.25	29.24	14.53
39	12/08/2019	72.62	33.30	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	19.46	11.09	21.62	19.21
40	16/08/2019	42.56	23.59	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	13.65	6.35	17.82	15.43
41	19/08/2019	55.81	38.48	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	36.88	18.25	30.46	12.43
42	22/08/2019	77.47	30.53	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	12.91	8.19	23.54	26.33
43	26/08/2019	49.35	21.63	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	16.64	15.35	28.49	16.25
44	29/08/2019	59.31	27.57	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	18.38	12.69	19.79	11.66
45	02/09/2019	62.46	29.32	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	35.70	16.32	22.44	16.33
46	05/09/2019	45.66	16.51	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	31.24	7.66	31.72	26.42
47	09/09/2019	57.66	23.42	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	10.26	12.47	38.67	17.66
48	13/09/2019	73.67	40.24	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	20.42	18.28	23.41	20.74
49	16/09/2019	67.32	35.56	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	33.50	9.61	20.52	19.70
50	19/09/2019	48.78	19.58	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	19.46	14.22	19.25	13.42
51	23/09/2019	60.25	32.55	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	16.40	17.31	32.21	18.35
52	26/09/2019	75.37	42.54	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	30.67	6.55	24.86	21.79

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

BDL*:- Below Detection Limit: Ozone as O_3 ($\mu g/m^3$): 10
 BDL*:- Below Detection Limit - Lead as Pb ($\mu g/m^3$): 0.5
 BDL*:- Below Detection Limit - Carbon Monoxide as CO (mg/m^3): 0.01
 BDL*:- Below Detection Limit - Ammonia NH_3 ($\mu g/m^3$): 10
 BDL*:- Below Detection Limit - Benzene as C_6H_6 ($\mu g/m^3$): 2
 BDL*:- Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
 BDL*:- Below Detection Limit - Arsenic as As (ng/m^3): 2
 BDL*:- Below Detection Limit - Nickel as Ni (ng/m^3): 10



Authorized Signatory



• FSSAI Approved Lab • Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 • GPCB approved schedule II auditor • ISO 14001 • OHSAS 18001 • ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.
Table-1.5: Ambient Air Quality Monitoring Results at Hazira Village

Sr. No.	Date of Sampling	Location-5: Hazira Village (N 21° 05.44' E 72° 38.44')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2019	91.21	50.29	0.64	BDL*	2.46	11.32	0.94	BDL*	43.46	17.67	39.29	24.57
2	04/04/2019	73.67	34.50	BDL*	BDL*	BDL*	10.51	0.71	BDL*	38.72	25.71	26.85	22.66
3	08/04/2019	82.42	45.29	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	48.33	19.56	33.48	28.38
4	11/04/2019	94.37	53.50	0.78	BDL*	2.64	10.51	0.61	BDL*	40.28	16.30	35.35	21.58
5	15/04/2019	83.68	44.38	BDL*	BDL*	BDL*	BDL*	0.70	BDL*	36.31	22.58	38.32	30.24
6	18/04/2019	69.46	31.50	BDL*	BDL*	2.56	10.30	0.96	BDL*	22.72	20.58	34.45	20.25
7	22/04/2019	86.28	48.21	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	45.67	18.74	31.23	25.25
8	25/04/2019	90.37	51.25	0.72	BDL*	2.45	10.58	0.98	BDL*	25.31	21.25	40.38	29.46
9	29/04/2019	70.24	32.29	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	39.53	15.76	43.51	27.54
10	02/05/2019	82.74	43.51	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	20.23	21.56	32.53	28.29
11	06/05/2019	69.57	36.76	0.56	BDL*	2.68	10.80	0.53	BDL*	44.37	19.25	36.76	24.39
12	09/05/2019	86.53	47.29	BDL*	BDL*	BDL*	BDL*	0.81	BDL*	31.56	16.55	24.84	27.17
13	13/05/2019	70.61	39.58	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	48.35	20.08	45.38	23.86
14	16/05/2019	92.42	52.47	0.84	BDL*	2.76	10.70	0.69	BDL*	42.22	18.68	41.02	20.16
15	20/05/2019	85.64	44.72	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	39.24	14.76	30.85	26.42
16	23/05/2019	78.37	41.53	0.74	BDL*	2.46	10.53	0.32	BDL*	26.26	22.60	35.33	18.64
17	27/05/2019	89.44	26.77	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	36.57	17.56	42.56	25.55
18	30/05/2019	95.33	54.33	0.68	BDL*	2.86	10.80	0.96	BDL*	49.22	23.55	34.67	19.67
19	03/06/2019	78.08	35.35	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	41.54	18.23	42.37	20.27
20	06/06/2019	87.63	54.87	0.59	BDL*	2.45	10.68	0.81	BDL*	46.33	21.51	34.62	16.54
21	10/06/2019	70.35	32.16	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	34.27	24.55	31.24	25.62
22	14/06/2019	95.34	57.44	0.60	BDL*	2.26	10.46	0.93	BDL*	30.43	14.24	37.38	15.74
23	17/06/2019	81.34	47.16	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	37.54	20.40	43.42	18.68
24	20/06/2019	90.12	49.40	0.65	BDL*	2.62	10.90	0.54	BDL*	20.68	26.22	33.28	23.42
25	24/06/2019	72.52	34.31	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	29.22	16.37	29.67	19.55
26	27/06/2019	68.38	29.92	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	32.31	19.55	35.47	14.35
27	01/07/2019	86.25	48.41	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	45.28	20.24	41.57	25.67
28	05/07/2019	77.37	41.57	BDL*	BDL*	BDL*	BDL*	0.96	BDL*	39.26	17.84	35.22	22.16
29	10/07/2019	82.62	45.38	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	48.29	18.52	29.62	18.33


Authorized Signatory


• PSSAI Approved Lab • Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 • GPCB approved schedule II auditor • ISO 14001 • OHSAS 18001 • ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.

30	11/07/2019	90.33	52.43	0.64	BDL*	2.64	10.53	0.54	BDL*	34.24	21.27	38.23	26.32
31	15/07/2019	78.27	37.59	BDL*	BDL*	BDL*	BDL*	0.84	BDL*	38.85	23.68	34.67	15.65
32	18/07/2019	95.37	54.33	0.76	BDL*	2.76	10.46	0.26	BDL*	42.44	19.56	39.33	20.54
33	22/07/2019	69.59	38.54	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	33.54	24.49	23.59	27.57
34	25/07/2019	87.57	46.54	0.82	BDL*	2.84	10.79	0.86	BDL*	25.62	22.45	36.54	24.54
35	29/07/2019	74.42	33.53	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	44.59	15.90	40.28	16.49
36	01/08/2019	76.37	40.28	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	22.48	17.59	31.61	23.67
37	05/08/2019	82.65	37.51	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	28.46	19.62	39.53	15.24
38	08/08/2019	73.44	34.65	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	35.43	25.65	38.25	27.64
39	12/08/2019	92.47	55.66	0.76	BDL*	2.56	10.68	0.71	BDL*	29.35	22.63	26.30	25.57
40	16/08/2019	68.64	33.53	BDL*	BDL*	BDL*	BDL*	1.03	BDL*	42.48	16.69	23.66	20.60
41	19/08/2019	87.65	50.27	0.56	BDL*	2.42	10.19	0.66	BDL*	45.58	24.32	43.53	22.54
42	22/08/2019	94.34	45.34	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	24.38	20.22	36.31	24.55
43	26/08/2019	71.21	39.37	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	34.31	18.67	33.63	21.20
44	29/08/2019	86.34	51.35	BDL*	BDL*	BDL*	BDL*	0.96	BDL*	38.28	14.25	28.34	19.44
45	02/09/2019	88.64	46.33	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	49.58	24.39	35.33	22.56
46	05/09/2019	68.43	27.44	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	38.37	16.47	41.76	28.29
47	09/09/2019	84.46	43.60	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	28.40	14.35	30.21	21.68
48	13/09/2019	93.51	56.36	0.58	BDL*	2.76	10.80	0.82	BDL*	35.41	12.34	37.67	24.65
49	16/09/2019	85.63	47.53	0.65	BDL*	2.18	10.24	0.47	BDL*	46.36	18.51	29.20	14.54
50	19/09/2019	64.76	30.25	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	20.37	22.61	26.16	19.99
51	23/09/2019	86.83	49.57	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	31.73	11.50	40.61	25.75
52	26/09/2019	95.42	53.46	0.70	BDL*	2.34	10.39	0.90	BDL*	36.28	20.29	28.62	18.69

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

BDL*:- Below Detection Limit: Ozone as O_3 ($\mu g/m^3$): 10
 BDL*:- Below Detection Limit - Lead as Pb ($\mu g/m^3$): 0.5
 BDL*:- Below Detection Limit - Carbon Monoxide as CO (mg/m^3): 0.01
 BDL*:- Below Detection Limit - Ammonia NH_3 ($\mu g/m^3$): 10
 BDL*:- Below Detection Limit - Benzene as C_6H_6 ($\mu g/m^3$): 2
 BDL*:- Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
 BDL*:- Below Detection Limit - Arsenic as As (ng/m^3): 2
 BDL*:- Below Detection Limit - Nickel as Ni (ng/m^3): 10



Authorized Signatory



• FSSAI Approved Lab

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

 • GPCB approved
schedule II auditor

• ISO 14001

• OHSAS 18001

• ISO 9001

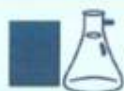
"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gayatri Farsan Mart,
Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

Annexure-4 (B)

Ground Water Quality Monitoring For The Period From April 2019 to September 2019


POLLUCON LABORATORIES PVT. LTD.
4B. GROUND WATER QUALITY MONITORING: -
Table-1.6: Ground Water Quality Results for the period: April, 2019 to Sept, 2019

Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL					
			APRIL-19	MAY-19	JUNE-19	JULY-19	AUG-19	SEPT-19
			05/04/2019	30/05/2019	12/06/2019	30/07/2019	19/08/2019	30/09/2019
1	Colour	Hazen	1	2	1	1	1	1
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.2	0.35	0.24	0.16	0.092	< 0.02
5	pH Value	--	7.41	8.08	7.4	7.28	7.84	7.8
6	Total Hardness as CaCO ₃	mg/L	470	450	364	354	244	286
7	Iron as Fe	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Chloride as Cl	mg/L	109	99	71.97	68	49.98	183
9	Residual Free Chlorine	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
10	Fluoride as F	mg/L	0.3	0.45	0.38	0.24	0.18	0.14
11	Total Dissolved Solids	mg/L	876	804	792	740	782	1254
12	Calcium as Ca	mg/L	80	74	79.2	69.6	30.4	55.2
13	Magnesium as Mg	mg/L	64.8	63.6	39.84	43.2	40.32	35.52
14	Copper as Cu	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
15	Manganese as Mn	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
16	Sulphate as SO ₄	mg/L	28	34	42	39	28.4	26.2
17	Nitrate Nitrogen as NO ₃	mg/L	0.37	0.25	0.22	0.18	0.1	0.12
18	Phenolic compounds as C ₆ H ₅ OH	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
19	Mercury as Hg	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
20	Cadmium as Cd	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
21	Selenium as Se	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
22	Arsenic as As	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
23	Cyanide as CN	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
24	Lead as Pb	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
25	Zinc as Zn	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
26	Anionic Detergents as MBAS	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
27	Chromiums Cr ^{VI}	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
28	Mineral Oil	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
29	Alkalinity	mg/L	277	252	242	228	189	370
30	Aluminum as Al	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
31	Boron as B	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32	Pesticides							
32.1	Alachor	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.2	Atrazine	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.3	Aldrin/Dieldrine	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.4	Alpha HCH	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.5	Beta HCH	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.6	Butachlor	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*


Authorized Signatory


• FSSAI Approved Lab

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

• ISO 9001 approved schedule II auditor

• ISO 14001

• OHSAS 18001

• ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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



POLLUCON LABORATORIES PVT. LTD.

Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL					
			APRIL-19	MAY-19	JUNE-19	JULY-19	AUG-19	SEPT-19
			05/04/2019	30/05/2019	12/06/2019	30/07/2019	19/08/2019	30/09/2019
32.7	Chlorpyrifos	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.8	Delta HCH	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.9	2,4- Dichlorophenoxy acetic acid	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.10	DDT (o,p,p,p-isomers of DDT, DDE & DDD	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.11	Endosulfan (alpha, beta, and sulphate)	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.12	Ethion	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.13	Gamma – HCH (Lindane)	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.14	Isoproturon	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.15	Malathion	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.16	Methyl Parathion	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.17	Monocrotophos	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.18	Phorate	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
33	Coliform	/100 ml	Present	Present	Present	Absent	Absent	Present
34	E-Coli	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent

*Below detection limit.

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



Authorized Signatory



● FSSAI Approved Lab

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

● ISO 9001:2015 approved schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

ANNEXURE-4 (C)

Surface Water Quality Monitoring For The Period From April 2019 to September 2019



POLLUCON LABORATORIES PVT. LTD.

4C. SURFACE WATER QUALITY MONITORING: -

Table-1.7: Surface Water (Pond) Quality Results for the period: April, 2019 to Sept, 2019

Sr. No.	Parameters	Unit	At Mora Village (Surface Water – Pond)			
			APRIL-19	JULY-19	AUG-19	SEPT-19
			05/04/2019	30/07/2019	19/08/2019	30/09/2019
1	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	2	3	1	1
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable
4	pH Value	--	7.2	7.35	7.9	8.04
5	Turbidity	NTU	5.1	4.18	3.24	2.1
6	Total Dissolved Solids	mg/L	1970	1840	1583	1410
7	Total Hardness as CaCO ₃	mg/L	198	191	174	106
8	Chloride as Cl	mg/L	570	560	532	388
9	Fluoride as F	mg/L	0.37	0.35	0.3	0.1
10	Iron as Fe	mg/L	< 0.05	< 0.05	0.07	0.06
11	Coliform	/100 ml	Present	Absent	Absent	Present
12	E-Coli	/100 ml	Absent	Absent	Absent	Absent

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



Authorized Signatory



● FSSAI Approved Lab

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

● GPCB approved schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

Annexure 4 (D)
Sea Water Monitoring April 2019 to September 2019


4D. SEA WATER QUALITY MONITORING: -
Table-1.8: Sea Water Quality Analysis Results of CB2 South End towards Landside from the Sea Basin for the period: April, 2019 to Sept, 2019

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS											
			CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN(N 21° 5'1.92", E 72°37'56.58")											
			APRIL-19		MAY-19		JUNE-19		JULY-19		AUG-19		SEPT-19	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	---	8.16	8.1	8.04	8.07	8.13	8.08	8.2	8.15	8.04	7.95	8.14	8.06
2	Temperature	°C	31.5	31.2	31.6	31.3	31.3	29.9	30	29.8	29.1	29.4	29.2	29.5
3	Total Suspended Solids	mg/L	230	256	250	268	329	350	321	340	352	389	370	394
4	BOD (3 Days @ 27 °C)	mg/L	5.7	BDL*	5.3	BDL*	5	BDL*	3.8	BDL*	BDL*	BDL*	BDL*	BDL*
5	Dissolved Oxygen	mg/L	5.1	4.9	5.2	5	5.5	5.1	5.7	5.2	6	5.9	5.9	5.8
6	Salinity	psu	31.3	31.7	32.3	32.5	32.6	32.9	32.1	32.6	30.8	31.2	26.9	27.8
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO ₃	µmol/L	7.8	5.29	5.19	3.95	8.14	7.4	6.14	5.3	3.16	2.98	8.36	9.3
9	Nitrite as NO ₂	µmol/L	0.71	0.51	0.57	1.91	1.43	1.36	1.28	1.4	0.94	0.72	0.65	0.91
10	Ammonical Nitrogen as NH ₄	µmol/L	4.04	3.3	2.15	1.91	3.16	2.98	2.66	2.67	1.84	1.65	3.16	4.43
11	Phosphates as PO ₄	µmol/L	2.35	1.93	2.17	2.02	1.88	1.66	1.44	1.5	1.12	1.2	2.9	3.27
12	Total Nitrogen	µmol/L	12.55	9.1	7.91	6.23	12.73	11.74	10.08	9.57	5.94	5.35	12.17	15.14
13	Petroleum Hydrocarbon	µg/L	15.6	BDL*	14.2	BDL*	16.8	BDL*	10.4	BDL*	BDL*	BDL*	BDL*	BDL*
14	Total Dissolved Solids	mg/L	36240	36984	37284	37514	36384	37510	35840	36418	33192	34086	33570	33816
15	COD	mg/L	14.5	8.3	20.4	6.2	18.9	9.2	13.4	BDL*	9.4	BDL*	7.6	BDL*
A. Flora and Fauna														
16.1	Primary Productivity	mgC/L/day	6.3	5.4	4.5	3.15	9.9	8.1	10.8	9.45	6.75	6.3	4.95	3.15
B. Phytoplankton														
17.1	Chlorophyll	mg/m ³	3.74	2.67	3.36	3.2	2.67	2.56	3.15	2.99	2.94	2.34	2.72	2.34
17.2	Phaeophytin	mg/m ³	1.16	2.49	1.27	1.58	2.38	2.33	2.27	1.57	2.07	2.06	2.06	3.07
17.3	Cell Count	No. x 10 ⁷ /L	176	70	164	50	148	96	138	80	124	66	116	62
17.4	Name of Group Number and name of group species of each group	---	Thalassionema sp. Nitzschia sp. Navicula sp. Cylindrocapsa sp.	Nitzschia sp. Thalassionema sp. Fragilaria sp.	Coscinodiscus sp. Nitzschia sp. Rhizosolenia sp. Gyrodinium sp.	Fragilaria sp. Nitzschia sp. Synedra sp.	Nitzschia sp. Thalassionema sp. Rhizosolenia sp. Coscinodiscus sp.	Nitzschia sp. Rhizosolenia sp. Biddulphia sp.	Cylindrocapsa sp. Navicula sp. Thalassionema sp. Nitzschia sp.	Nitzschia sp. Synedra sp. Fragilaria sp.	Nitzschia sp. Synedra sp. Skeletonema sp. Coscinodiscus sp.	Navicula sp. Thalassionema sp. Fragilaria sp.	Scenedesmus sp. Navicula sp. Cylindrocapsa sp. Pediastrum sp.	Fragilaria sp. Nitzschia sp. Navicula sp.

Continue...
Authorized Signatory


• FSSAI Approved Lab • Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 • GPCB approved schedule II auditor • ISO 14001 • OHSAS 18001 • ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

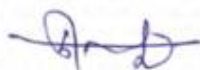
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07916605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com


POLLUCON LABORATORIES PVT. LTD.

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS CE2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN(N 21° 5'1.92", E 72°37'56.58")											
			APRIL-19		MAY-19		JUNE-19		JULY-19		AUG-19		SEPT-19	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
C	Zooplanktons													
18.1	Abundance (Population)	NOK10 3/100 m3	46		51		64		47		36		31	
18.2	Name of Group Number and name of group species of each group	—	Polychaetes Copepods Lamellibranches		Polychaetes Foraminiferans Gastropods		Polychaetes Gastropods Amphipods		Foraminiferans Copepods Polychaetes		Polychaetes Copepods Decapods		Chaetognathes Polychaetes Decapods	
18.3	Total Biomass	mg/10 0 m ³	2.9		2.6		3.7		3.1		2.1		1.75	
D	Microbiological Parameters													
19.1	Total Bacterial Count	CFU/ ml	1780		1720		1780		1840		1800		1840	
19.2	Total Coliform	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.3	E.coli	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.4	Enterococcus species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.5	Salmonella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.6	Shigella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.7	Vibrio species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	

BDL* - Below Detection Limit

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



Authorized Signatory



● PSSAI Approved Lab

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

● GPCB approved
schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart,
Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635773, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com


Table-1.9: Sea Water Quality Analysis Results of MP1 West End towards Channel from the Sea Basin for the period: April, 2019 to Sept, 2019

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS											
			MP1 WEST END TOWARDS CHANNEL FROM SEA BASIN(N 21° 5'9.78" E 72°37'24.48")											
			APRIL-19		MAY-19		JUNE-19		JULY-19		AUG-19		SEPT-19	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	—	8.15	8.1	8.07	8.09	8.12	8.06	8.19	8.15	8.03	7.97	8.13	8.07
2	Temperature	°C	31.4	31.1	31.7	31.5	31.3	31.8	30	29.8	29.2	29.6	29.1	29.5
3	Total Suspended Solids	mg/L	248	270	240	259	324	348	314	330	359	392	362	382
4	BOD (3 Days @ 27 °C)	mg/L	5.2	BDL*	5	BDL*	5.3	BDL*	3.2	BDL*	BDL*	BDL*	BDL*	BDL*
5	Dissolved Oxygen	mg/L	5	4.8	5.2	5	5.4	5	5.7	5.3	6	5.9	5.9	5.6
6	Salinity	psu	31.3	31.6	32.1	32.4	32.1	32.7	32.2	32.7	30.7	31.1	27	27.4
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO ₃	µmo/L	7.05	5.79	6.92	5.93	8.2	7.46	6.1	5.8	3.24	2.91	7.94	8.36
9	Nitrite as NO ₂	µmo/L	0.82	0.45	0.74	0.65	1.38	1.3	1.12	1.2	0.95	0.74	0.72	0.84
10	Ammonical nitrogen as NH ₄	µmo/L	4.28	3.12	2.69	2.15	3.2	3	2.59	2.77	1.73	1.54	3.24	4.16
11	Phosphates as PO ₄	µmo/L	2.62	2.19	2.49	2.34	1.94	1.83	1.57	1.7	1.34	1.27	2.6	3.14
12	Total Nitrogen	µmo/L	12.15	9.36	10.35	8.74	12.78	11.76	9.81	9.77	5.92	5.19	11.9	13.36
13	Petroleum Hydrocarbon	ug/L	16.4	BDL*	16.9	BDL*	14.3	BDL*	11.4	BDL*	BDL*	BDL*	BDL*	BDL*
14	Total Dissolved Solids	mg/L	36385	36781	36930	37312	38961	39108	35894	36819	33756	33972	32584	32980
15	COD	mg/L	16.9	6.3	16.8	8.4	19.9	10.2	12.2	BDL*	9.8	BDL*	8.6	BDL*
A Flora and Fauna														
16.1	Primary Productivity	mgC/L/day	7.2	4.95	5.4	3.24	9.45	7.56	11.7	8.55	6.75	4	5.85	4.5
B Phytoplankton														
17.1	Chlorophyll	mg/m ³	3.41	2.99	2.93	2.45	2.72	2.56	2.67	2.5	2.88	2.45	2.4	2.29
17.2	Phaeophytin	mg/m ³	1.37	1.94	1.74	2.22	1.8	1.85	1.52	2.13	1.38	2.59	2.19	2.64
17.3	Cell Count	No. x 10 ³ /L	180	66	168	46	154	98	130	76	120	64	138	70
17.4	Name of Group Number and name of group species of each group	—	Navicul a sp. Thalassiosira sp. Rhizosolenia sp. Gyrodinium sp.	Nitzschia sp. Fragilaria sp. Navicul a sp.	Thalassiosira sp. Nitzschia sp. Coscinodiscus sp. Rhizosolenia sp.	Navicul a sp. Rhizosolenia sp.	Chlorella sp. Scenedesmus sp. Closterium sp. Rhizosolenia sp.	Synedra sp. Navicul a sp. Nitzschia sp.	Closterium sp. Navicul a sp. Melosira sp. Thalassiosira sp.	Nitzschia sp. Synedra sp. Navicul a sp.	Melosira sp. Navicul a sp. Coscinodiscus sp. Nitzschia sp.	Nitzschia sp. Thalassiosira sp. Fragilaria sp.	Closterium sp. Scenedesmus sp. Navicul a sp. Biddulphia sp.	Fragilaria sp. Nitzschia sp. Synedra sp.

Continue...

Authorized Signatory



• FSSAI Approved Lab

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

• GPCB approved schedule II auditor

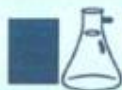
• ISO 14001

• OHSAS 18001

• ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016005174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com


POLLUCON LABORATORIES PVT. LTD.

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS MP1 WEST END TOWARDS CHANNEL FROM SEA BASIN(N 21° 5'9.78",E 72°37'24.48")											
			APRIL-19		MAY-19		JUNE-19		JULY-19		AUG-19		SEPT-19	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
C	Zooplanktons													
18.1	Abundance (Population)	Nox10 3/100 m3	40		50		67		47		36		33	
18.2	Name of Group Number and name of group species of each group	--	Polychaetes Gastropods Decapods		Polychaetes Copepods Foraminiferans		Polychaetes Gastropods Copepods		Polychaetes Foraminiferans Bivalves		Polychaetes Mysids Bivalves		Decapods Polychaetes Amphipods	
19.3	Total Biomass	mg/10 0.m ³	2.25		2.1		3.9		3		2.3		2	
D	Microbiological Parameters													
19.1	Total Bacterial Count	CFU/ ml	1860		1880		1760		1800		1920		2000	
19.2	Total Coliform	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.3	E.coli	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.4	Enterococcus species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.5	Salmonella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.6	Shigella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.7	Vibrio species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	

BDL* - Below Detection Limit

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



Authorized Signatory



● FSSAI Approved Lab

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

● GPCB approved schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart,
Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.

Table-1.10: Sea Water Quality Analysis Results of CB1 End towards Channel from the Sea Basin for the period: April, 2019 to Sept, 2019

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS CB1 END TOWARDS CHANNEL FROM SEA BASIN (N 21° 5'14.67", E 72°37'40.14")													
			APRIL-19		MAY-19		JUNE-19		JULY-19		AUG-19		SEPT-19			
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	—	8.13	8.1	8.03	8.07	8.15	8.1	8.18	8.14	8.03	7.93	8.12	8.09		
2	Temperature	°C	31.6	31.2	31.8	31.6	31.3	30	30	29.9	29.2	29.7	29.4	29.7		
3	Total Suspended Solids	mg/L	240	278	248	262	321	343	320	335	363	387	363	389		
4	BOD (3 Days @ 27 °C)	mg/L	4.8	BDL*	4	BDL*	5.1	BDL*	3.9	BDL*	BDL*	BDL*	BDL*	BDL*		
5	Dissolved Oxygen	mg/L	5.2	4.9	5.2	5	5.6	5.1	5.7	5.2	6	5.8	5.9	5.7		
6	Salinity	psu	31.4	31.8	32.2	32.6	32.8	33	32.2	32.7	30.7	31.3	26.9	27.5		
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*		
8	Nitrate as NO ₃	µmo/l	8.31	6.29	7.71	6.72	8.11	7.51	6.08	5.91	3.13	2.84	7.94	8.42		
9	Nitrite as NO ₂	µmo/l	0.86	0.59	0.78	0.67	1.4	1.32	1.2	1.34	0.92	0.8	0.68	0.74		
10	Ammonical Nitrogen NH ₄	µmo/l	3.06	2.36	2.92	2.36	3.15	3.1	2.6	2.73	1.77	1.5	3.1	3.63		
11	Phosphates as PO ₄	µmo/l	2.73	2.46	2.56	2.27	1.89	1.74	1.68	1.7	1.24	1.13	2.58	3.14		
12	Total Nitrogen	µmo/l	12.22	9.27	11.41	9.76	12.66	1.93	9.88	9.98	5.82	5.14	11.72	12.79		
13	Petroleum Hydrocarbon	µg/L	15.6	BDL*	13.8	BDL*	14.8	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*		
14	Total Dissolved Solids	mg/L	36628	37284	37190	37318	37268	37611	35930	37116	33817	34029	33376	33630		
15	COD	mg/L	16.8	6.9	19.2	7.4	17.4	9.42	10.2	BDL*	9	BDL*	8.4	BDL*		
A Flora and Fauna																
16.1	Primary Productivity	mgC/L/day	6.75	4.05	4.05	3	8.55	7.65	11.25	8.1	7.2	5.4	4.86	4.32		
B Phytoplankton																
17.1	Chlorophyll	mg/m ³	3.47	3.36	2.93	2.13	2.4	2.29	2.83	2.34	2.72	2.13	2.61	2.24		
17.2	Phaeophytin	mg/m ³	1.43	1.31	1.55	2.91	2.12	2.64	1.62	2.29	2.32	2.05	1.91	1.53		
17.3	Cell Count	No./10 ⁷ L	184	62	156	48	146	94	130	78	116	60	110	68		
17.4	Name of Group Number and name of group species of each group	—	Navicul a sp. Coscinodiscus sp. Rhizosolenia sp. Thalassiosira sp.	Nitzschia sp. Fragillaria sp. —	Rhizosolenia sp. Gyrodinium sp. Coscinodiscus sp. Closterium sp.	Navicul a sp. Nitzschia sp. Thalassiosira sp. —	Navicul a sp. Thalassiosira sp. Rhizosolenia sp. Synedra sp.	Navicul a sp. Fragillaria sp. Synedra sp. —	Nitzschia sp. Thalassiosira sp. Navicul a sp.	Navicul a sp. Synedra sp. Fragillaria sp.	Navicul a sp. Skeletonelema sp. Melosira sp. Rhizosolenia sp.	Biddulphia sp. Cyclotella sp. Nitzschia sp. —	Closterium sp. Navicul a sp. Cyclotella sp. Scenedesmus sp.	Navicul a sp. Biddulphia sp. Fragillaria sp. —		

Continue...

Authorized Signatory



• FSSAI Approved Lab • Recognized by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 • GPCB approved schedule II auditor • ISO 14001 • OHSAS 18001 • ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gayatri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS CB1 END TOWARDS CHANNEL FROM SEA BASIN (N 21° 5'14.67" , E 72°37'40.14")											
			APRIL-19		MAY-19		JUNE-19		JULY-19		AUG-19		SEPT-19	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
C	Zooplanktons													
18.1	Abundance (Population)	Nox10 3/100 m3	41		51		62		49		36		39	
18.2	Name of Group Number and name of group species of each group	--	Copepods Polychaete worms Ostracods		Polychaete worms Copepods Nematodes		Polychaete worms Ostracods Copepods		Polychaete worms Nematodes Bivalves		Polychaetes Bivalves Isopods		Polychaetes Decapods Foraminiferans	
18.3	Total biomass	mg/10 0 m ³	2.15		2.3		3.45		2.95		2.25		1.9	
D	Microbiological Parameters													
19.1	Total Bacterial Count	CFU/ ml	1980		1740		1820		1860		1700		1920	
19.2	Total Coliform	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.3	E.coli	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.4	Enterococcus species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.5	Salmonella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.6	Shigella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
19.7	Vibrio species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	

BDL* - Below Detection Limit,
Minimum Detection Limit, BOD: 3.0 mg/L, Oil & Grease: 1.0mg/L, Petroleum Hydrocarbon: 10µg/L, Nitrite as NO₂: 0.002 mg/L, Pheophytin: 0.1 mg/m³

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


Authorized Signatory


• FSSAI Approved Lab

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

 • GPCB approved
schedule II auditor

• ISO 14001

• OHSAS 18001

• ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart,
Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.

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

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

Annexure 4 (E)
Dump Pond Water Monitoring results


POLLUCON LABORATORIES PVT. LTD.
4E. DUMP POND DISCHARGE WATER QUALITY MONITORING: -
Table-1.11: Dump Pond Water Quality Analysis Results for the Period: April, 2019 to Sept, 2019

Sr. No.	Parameters	Unit	24/08/2019	
			OLD COAL YARD	PET COCK
1	pH	--	7.76	7.4
2	Total Dissolved Solids	mg/L	1583	3983
3	Total Suspended Solids	mg/L	47	108
4	Turbidity	NTU	18.6	10.3
5	BOD (3 Days @ 27 °C)	mg/L	67	37
6	Dissolved Oxygen	mg/L	5.4	6.1
7	COD	mg/L	244	156
8	Salinity	ppt	1.89	2.3
9	Oil & Grease	mg/L	BDL*	BDL*
10	Total Hardness as CaCO ₃	mg/L	98	127
11	Fluoride as F	mg/L	0.55	0.29
12	Chloride as Cl	mg/L	1049	1274
13	Zinc as Zn	mg/L	0.53	0.018
14	Cadmium as Cd	mg/L	BDL*	BDL*
15	Lead as Pb	mg/L	BDL*	BDL*
16	Mercury as Hg	mg/L	BDL*	BDL*

BDL*: Below Detection Limit, Minimum Detection Limit, Mercury as Hg: 0.00025 mg/L, Oil & Grease: 1.0 mg/L, Cadmium as Cd: 0.001 mg/L, Lead as Pb: 0.005 mg/L, Fluoride: 0.01 mg/L.

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Dump Pond Discharge Water.


Authorized Signatory


● FSSAI Approved Lab

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

● GPCB approved schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

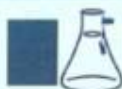
"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

ANNEXURE-4 (F)

Ambient Noise Monitoring Results from April 2019 to September 2019


POLLUCON LABORATORIES PVT. LTD.
4F. AMBIENT NOISE LEVEL MONITORING: -
Table-1.12: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2019 to Sept, 2019 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	02/04/2019	03/05/2019	04/06/2019	02/07/2019	02/08/2019	03/09/2019
6:00-7:00	55.1	54.1	54.4	55.2	54.9	51.3
7:00-8:00	54.5	56.6	56.7	56.3	53.6	53.9
8:00-9:00	54.0	53.2	53.5	57.1	56.2	55.1
9:00-10:00	57.4	55.9	58.6	59.7	58.8	59.3
10:00-11:00	61.5	62.0	62.6	60.3	52.1	58.1
11:00-12:00	57.9	58.4	59.1	58.2	55.7	54.5
12:00-13:00	57.2	54.8	58.5	56.9	56.3	52.0
13:00-14:00	66.0	64.7	64.4	60.8	51.4	56.7
14:00-15:00	64.2	67.1	63.9	59.1	57.2	51.9
15:00-16:00	60.0	63.0	59.3	61.3	59.8	54.2
16:00-17:00	54.6	56.5	58.4	58.4	55.2	58.8
17:00-18:00	64.4	65.2	63.4	56.5	57.8	60.3
18:00-19:00	67.0	71.2	68.5	55.7	52.5	57.2
19:00-20:00	69.4	69.6	71.2	58.8	59.1	59.9
20:00-21:00	52.9	52.6	52.2	59.5	56.8	56.2
21:00-22:00	54.1	54.3	54.1	55.4	58.3	51.6

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

Table-1.13: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2019 to Sept, 2019 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	02/04/2019 & 03/04/2019	03/05/2019 & 04/05/2019	04/06/2019 & 05/06/2019	02/07/2019 & 03/07/2019	02/08/2019 & 03/08/2019	03/09/2019 & 04/09/2019
22:00-23:00	51.8	51.3	51.9	58.5	55.4	54.2
23:00-00:00	54.3	53.3	55.6	57.3	52.8	49.3
00:00-01:00	51.4	54.4	52.9	56.4	54.6	47.2
01:00-02:00	52.3	53.7	53.8	60.1	48.2	50.8
02:00-03:00	54.9	57.1	56.2	59.9	50.3	48.3
03:00-04:00	49.6	52.7	50.8	53.8	53.1	45.5
04:00-05:00	49.7	52.6	49.5	59.2	52.7	48.8
05:00-06:00	53.0	50.5	51.7	55.6	50.8	46.6

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

Observations: 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

• GPCB approved schedule II auditor

• ISO 14001

• OHSAS 18001

• ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.
Table-1.14: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2019 to Sept, 2019 At HSE Building Terrace

Sampling Location	2 - HSE Building Terrace					
Longitude Latitude	N 21° 05.043' E 72° 38.491'					
Date of Monitoring	05/04/2019	07/05/2019	07/06/2019	05/07/2019	06/08/2019	06/09/2019
6:00-7:00	53.5	56.4	53.7	53.9	51.2	48.2
7:00-8:00	56.0	57.4	57.3	52.1	50.7	46.8
8:00-9:00	55.7	56.2	56.8	51.4	53.5	49.2
9:00-10:00	55.5	52.9	52.9	55.2	50.3	51.1
10:00-11:00	59.0	61.7	58.1	57.8	60.8	54.8
11:00-12:00	57.0	59.2	57.5	50.4	51.6	53.8
12:00-13:00	53.1	55.5	53.1	58.3	53.3	55.9
13:00-14:00	59.3	59.0	58.0	54.9	58.1	51.2
14:00-15:00	66.2	69.2	67.9	57.2	52.8	56.4
15:00-16:00	63.6	61.6	64.6	52.8	59.7	54.9
16:00-17:00	61.3	61.5	60.3	59.1	55.1	59.2
17:00-18:00	67.6	70.4	66.7	56.4	51.3	57.3
18:00-19:00	62.2	60.5	62.9	50.7	52.3	59.8
19:00-20:00	64.9	64.1	66.6	53.4	54.2	55.6
20:00-21:00	58.2	59.8	58.3	47.6	60.1	50.5
21:00-22:00	56.7	55.7	56.5	50.2	62.4	51.7

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

Table-1.15: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2019 to Sept, 2019 At HSE Building Terrace

Sampling Location	2 - HSE Building Terrace					
Longitude Latitude	N 21° 05.043' E 72° 38.491'					
Date of Monitoring	05/04/2019 & 06/04/2019	07/05/2019 & 08/05/2019	07/06/2019 & 08/06/2019	05/07/2019 & 06/07/2019	06/08/2019 & 07/08/2019	06/09/2019 & 07/09/2019
22:00-23:00	53.1	55.6	55.1	56.2	52.6	48.2
23:00-00:00	48.1	49.3	49.8	58.1	55.3	47.3
00:00-01:00	49.9	52.5	49.1	54.9	51.9	50.2
01:00-02:00	48.5	50.7	50.5	55.4	50.2	45.9
02:00-03:00	51.9	52.2	51.8	45.1	49.4	49.2
03:00-04:00	51.2	49.8	50.7	53.9	53.7	46.7
04:00-05:00	51.3	51.9	52.8	57.3	50.5	47.4
05:00-06:00	53.3	52.8	53.2	55.6	52.4	48.6

*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 and 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 Control) Rules 2000.


Authorized Signatory


• PSSAI Approved Lab

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

 • GPCB approved
schedule II auditor

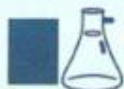
• ISO 14001

• OHSAS 18001

• ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart,
Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.
Table-1.16: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2019 to Sept, 2019 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	09/04/2019	10/05/2019	11/06/2019	09/07/2019	09/08/2019	10/09/2019
6:00-7:00	54.8	53.7	55.7	62.9	59.5	56.8
7:00-8:00	58.4	58.9	57.4	64.7	61.1	59.1
8:00-9:00	62.4	65.4	64.8	66.6	60.3	60.5
9:00-10:00	60.7	61.3	62.2	63.4	62.6	63.8
10:00-11:00	63.5	65.8	64.3	61.8	66.8	65.1
11:00-12:00	65.8	66.0	66.5	65.9	64.7	66.2
12:00-13:00	67.2	65.7	67.4	69.3	68.9	62.8
13:00-14:00	65.4	64.8	64.1	67.5	63.5	64.4
14:00-15:00	67.3	67.2	69.1	66.4	65.1	67.1
15:00-16:00	66.6	64.3	65.4	64.8	65.3	69.2
16:00-17:00	68.0	69.5	69.8	69.5	62.3	66.7
17:00-18:00	67.5	66.3	67.0	64.4	65.6	61.3
18:00-19:00	66.9	69.8	69.3	63.9	63.1	66.4
19:00-20:00	65.5	65.3	64.7	59.3	68.4	64.8
20:00-21:00	67.9	65.5	69.2	56.6	64.5	62.9
21:00-22:00	57.8	57.8	58.2	58.7	62.9	61.1

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

Table-1.17: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2019 to Sept, 2019 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	09/04/2019 & 10/04/2019	10/05/2019 & 11/05/2019	11/06/2019 & 12/06/2019	09/07/2019 & 10/07/2019	09/08/2019 & 10/08/2019	10/09/2019 & 11/09/2019
22:00-23:00	61.2	64.1	60.1	65.7	51.4	63.4
23:00-00:00	55.1	58.3	55.2	61.4	53.2	62.9
00:00-01:00	54.1	53.4	55.3	62.6	55.6	66.2
01:00-02:00	58.9	59.1	57.7	65.7	51.8	65.5
02:00-03:00	53.2	55.4	53.9	65.3	50.4	61.9
03:00-04:00	54.5	52.0	54.2	63.4	54.3	65.4
04:00-05:00	55.3	57.7	57.1	55.4	56.6	60.3
05:00-06:00	57.0	56.9	58.1	60.3	58.9	58.6

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

Observation: Above given Results are with n 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

 • GPCB approved
schedule II auditor

• ISO 14001

• CHISAS 18001

• ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart,
Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.
Table-1.18: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2019 to Sept, 2019 At Container Terminal

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	12/04/2019	14/05/2019	14/06/2019	12/07/2019	13/08/2019	17/09/2019
6:00-7:00	58.6	58.8	60.2	59.2	58.7	56.9
7:00-8:00	62.7	60.7	63.7	57.4	60.7	55.2
8:00-9:00	62.8	64.9	63.2	56.1	59.2	57.9
9:00-10:00	65.1	66.1	66.3	62.9	62.5	59.6
10:00-11:00	64.5	67.0	66.2	64.2	64.2	61.9
11:00-12:00	65.7	66.8	66.9	67.3	68.3	63.2
12:00-13:00	69.0	68.1	70.0	68.5	65.2	65.2
13:00-14:00	68.6	72.1	69.7	65.3	69.9	64.7
14:00-15:00	61.4	61.9	61.2	61.9	65.8	66.5
15:00-16:00	65.3	68.0	66.8	66.6	61.7	62.1
16:00-17:00	70.7	72.8	70.5	60.2	64.4	64.2
17:00-18:00	64.7	66.4	66.4	68.4	68.8	62.3
18:00-19:00	60.6	61.2	60.5	63.2	63.2	60.8
19:00-20:00	65.2	65.1	68.3	67.9	68.7	63.4
20:00-21:00	69.8	71.8	69.5	63.7	69.4	59.4
21:00-22:00	61.2	58.3	61.0	66.3	64.6	60.9

*dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Table-1.19: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2019 to Sept, 2019 At Container Terminal

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	12/04/2019 & 13/04/2019	14/05/2019 & 15/05/2019	14/06/2019 & 15/06/2019	12/07/2019 & 13/07/2019	13/08/2019 & 14/08/2019	17/09/2019 & 18/09/2019
22:00-23:00	56.8	56.5	58.6	64.2	56.1	58.2
23:00-00:00	56.5	58.6	59.1	60.2	52.5	60.9
00:00-01:00	51.7	54.2	54.0	58.1	57.3	57.1
01:00-02:00	55.2	57.6	55.0	61.9	53.8	56.4
02:00-03:00	55.5	56.8	56.3	60.8	58.2	55.6
03:00-04:00	56.7	57.8	56.1	53.2	59.4	59.1
04:00-05:00	58.0	55.7	58.5	59.3	61.8	55.8
05:00-06:00	60.5	61.7	60.2	62.4	62.3	57.5

*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 and 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 Control) Rules 2000.


Authorized Signatory


• FSSAI Approved Lab

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

 • GPCB approved
schedule II auditor

• ISO 14001

• OHSAS 18001

• ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart,
Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.
Table-1.20: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2019 to Sept, 2019 At Hazira Village

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	16/04/2019	17/05/2019	18/06/2019	16/07/2019	20/08/2019	20/09/2019
6:00-7:00	50.1	48.7	48.3	45.3	50.9	51.8
7:00-8:00	54.9	55.3	57.0	47.4	54.7	56.3
8:00-9:00	53.2	55.3	52.4	49.6	56.4	54.3
9:00-10:00	51.3	53.7	50.9	52.7	65.9	55.4
10:00-11:00	57.3	57.9	57.1	53.8	55.5	59.7
11:00-12:00	58.1	60.8	61.1	51.3	58.2	56.1
12:00-13:00	55.2	56.8	55.8	54.2	51.1	54.4
13:00-14:00	56.1	56.7	56.4	50.8	55.4	52.6
14:00-15:00	57.5	55.8	57.7	47.5	53.8	53.7
15:00-16:00	53.4	53.5	54.7	46.9	56.7	50.0
16:00-17:00	51.0	51.3	50.2	48.2	58.5	53.3
17:00-18:00	53.6	55.1	52.3	53.4	60.2	60.6
18:00-19:00	53.0	54.4	51.9	54.6	55.8	58.2
19:00-20:00	53.3	51.2	54.9	56.8	52.6	58.7
20:00-21:00	51.8	50.7	53.8	57.1	51.9	54.7
21:00-22:00	49.8	52.7	51.0	59.6	53.2	53.6

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

Table-1.21: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2019 to Sept, 2019 At Hazira Village

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	16/04/2019 & 17/04/2019	17/05/2019 & 18/05/2019	18/06/2019 & 19/06/2019	16/07/2019 & 17/07/2019	20/08/2019 & 21/08/2019	20/09/2019 & 21/09/2019
22:00-23:00	49.2	52.6	51.6	55.3	42.7	48.7
23:00-00:00	46.1	48.9	47.9	52.2	48.1	46.2
00:00-01:00	43.2	41.7	44.6	48.7	46.4	44.5
01:00-02:00	41.7	40.4	40.7	51.5	49.6	42.6
02:00-03:00	43.6	43.3	44.0	41.6	41.3	40.8
03:00-04:00	43.8	42.9	45.1	53.8	44.4	41.3
04:00-05:00	44.3	47.3	46.8	51.9	43.6	42.5
05:00-06:00	46.8	47.5	45.5	52.1	49.8	49.7

*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 and 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 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


● PSSAI Approved Lab

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

● GPCB approved schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

Annexure 4 (G)
DG Stack Emission Monitoring Report April- September 2019


POLLUCON LABORATORIES PVT. LTD.
4G. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -
Table-1.22: DG Sets Stack Monitoring Results for the period: April, 2019 to Sept, 2019
Table-1.22 (a): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	DG SET TOYO DENKI -1		DG SET TOYO DENKI -2		DG SET TOYO DENKI -3	
			MAY-19	AUG-19	MAY-19	AUG-19	MAY-19	AUG-19
1	Particulate Matter	mg/Nm ³	23.84	19.84	19.57	15.42	21.46	24.58
2	Sulphur Dioxide	ppm	7.77	6.54	6.49	8.49	5.47	9.28
3	Oxide of Nitrogen	ppm	33.84	30.38	29.58	36.44	31.57	33.62
4	Carbon Monoxide (CO)	mg/m ³	8.38	12.49	6.54	11.45	9.59	15.08
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*

Table-1.22 (b): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	SS-1 LT DG -320 KVA		SS3 -DG -200 KVA		LT Phase -1 (625 KVA)	
			MAY-19	AUG-19	MAY-19	AUG-19	MAY-19	AUG-19
1	Particulate Matter	mg/Nm ³	20.61	16.41	22.39	25.68	28.6	24.36
2	Sulphur Dioxide	ppm	3.55	4.42	5.7	6.38	3.42	5.25
3	Oxide of Nitrogen	ppm	32.84	35.62	30.41	28.59	32.37	36.81
4	Carbon Monoxide (CO)	mg/m ³	5.73	9.16	9.16	3.44	4.58	5.73
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*

Table-1.22 (c): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	LT Phase -2 (750 KVA)		ER-1 (100 KVA)	
			MAY-19	AUG-19	MAY-19	AUG-19
1	Particulate Matter	mg/Nm ³	18.3	19.83	24.29	21.58
2	Sulphur Dioxide	ppm	7.29	4.44	4.58	2.85
3	Oxide of Nitrogen	ppm	38.4	34.46	35.39	29.33
4	Carbon Monoxide (CO)	mg/m ³	11.45	10.31	10.31	6.87
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	BDL*	BDL*	BDL*	BDL*


Authorized Signatory


• FSSAI Approved Lab

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

• GPCB approved schedule II auditor

• ISO 14001

• OHSAS 18001

• ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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


POLLUCON LABORATORIES PVT. LTD.
Table-1.22 (d): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	NDG Building (380 KVA)		Custom Building (320 KVA)	
			MAY-19	AUG-19	MAY-19	AUG-19
1	Particulate Matter	mg/Nm ³	16.49	22.54	17.84	12.55
2	Sulphur Dioxide	ppm	6.58	3.89	4.49	5.63
3	Oxide of Nitrogen	ppm	34.46	30.5	29.62	33.43
4	Carbon Monoxide (CO)	mg/m ³	8.02	11.45	6.87	5.73
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	BDL*	BDL*	BDL*	BDL*

Table-1.23: DG Sets Noise Level Monitoring Results for the period: April, 2019 to Sept, 2019

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 M Distance From The Enclosure	
		MAY-19	AUG-19
1.	DG SET TOYO DENKI - 1	70.4	70.4
2.	DG SET TOYO DENKI - 2	69.8	71.5
3.	DG SET TOYO DENKI -3	68.5	69.8
4.	SS-1 LT DG -320 KVA	82.8	68.9
5.	SS3 -DG -200 KVA	84.2	70.8
6.	LT PHASE -1 (625 KVA)	82.4	72.4
7.	LT PHASE -2 (750 KVA)	81.4	67.7
8.	ER-1 (100 KVA)	76.4	68.4
9.	NDG BUILDING (380 KVA)	79.6	69.6
10.	CUSTOM BUILDING (320 KVA)	84.2	70.8


Authorized Signatory


● FSSAI Approved Lab

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

● GPCB approved schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

Annexure 4 (H)

Sea Sediment Monitoring April 2019 to September 2019


POLLUCON LABORATORIES PVT. LTD.
4H. SEA SEDIMENT QUALITY MONITORING: -
Table-1.25: Sea Sediment Quality Results of CB2 South End towards Landside for the period: April, 2019 to Sept, 2019

S. NO.	PARAMETERS	UNIT	CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN (N 21° 5'1.92", E 72°37'56.58")					
			APRIL-19	MAY-19	JUNE-19	JULY-19	AUG-19	SEPT-19
1	Organic Matter	%	0.59	0.5	0.62	0.56	0.62	0.7
2	Phosphorus as P	µg/g	564	634	676	590	614	684
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Heavy Metals							
5.1	Aluminum as Al	%	4.86	4.1	4.72	4.9	4.9	4.6
5.2	Total Chromium as Cr ⁺³	µg/g	160	124	156	192	132	153
5.3	Manganese as Mn	µg/g	1283	1098	1173	1046	1240	1096
5.4	Iron as Fe	%	4.72	4.2	5.12	5.5	5.2	5.12
5.5	Nickel as Ni	µg/g	34.2	28.4	25	31.3	27.3	39.4
5.6	Copper as Cu	µg/g	27.6	21.8	26.4	42.6	29.6	34.3
5.7	Zinc as Zn	µg/g	242	190	169	231	216	297
5.8	Lead as Pb	µg/g	1.83	1.39	1.5	1.92	1.75	2
5.9	Mercury as Hg	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaete worms Gastropod s	Gastropod s Polychaete worms	Polychaete worms Bryozoans	Polychaete worms Crustaceans	Polychaete s Mysids Decapods	Polychaete s Bryozoans Crustaceans
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Copepods	Foraminifera	--	Bryozoans	Bryozoans Copepods	--
6.3	Population	No./m ²	706	676	559	647	529	645

BDL* - Below Detection Limit

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


Authorized Signatory


● PSSAI Approved Lab

● Recognised by MoEF, New Delhi Under
Sec. 12 of Environmental Protection Act-1986

● GPCB approved
schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart,
Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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



POLLUCON LABORATORIES PVT. LTD.

Table-1.26: Sea Sediment Quality Results of MP1 West End towards Channel of Sea Basin for the period: April, 2019 to Sept, 2019

S. NO.	PARAMETERS	UNIT	MP1 WEST END TOWARDS CHANNEL OF SEA BASIN (N 21° 5'9.78", E 72°37'24.48")					
			APRIL-19	MAY-19	JUNE-19	JULY-19	AUG-19	SEPT-19
1	Organic Matter	%	0.66	0.54	0.65	0.55	0.65	0.49
2	Phosphorus as P	µg/g	598	618	684	603	584	634
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Heavy Metals							
5.1	Aluminum as Al	%	4.63	4.1	4.6	4.98	4.85	4.65
5.2	Total Chromium as Cr ⁺³	µg/g	134	156	163	213	146	163
5.3	Manganese as Mn	µg/g	1278	1108	1177	1070	1240	1057
5.4	Iron as Fe	%	4.96	4.96	5.1	5.18	5.05	5.16
5.5	Nickel as Ni	µg/g	20.4	22.4	27.4	30.6	25.6	25.8
5.6	Copper as Cu	µg/g	28.7	23.6	21.8	34.2	27.92	31.3
5.7	Zinc as Zn	µg/g	164	204	171	216	180	192
5.8	Lead as Pb	µg/g	1.32	1.46	1.35	1.84	1.21	1.74
5.9	Mercury as Hg	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaete s Decapods	Polychaete s Gastropod s	Polychaete s Gastropod s	Polychaete s Echinoder ms	Polychaete s Decapods	Isopods Polychaete s
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminife rans	Foraminife rans	Nematode s Copepods	Nematode s --	Nematode s Bryozoans	Foraminife rans --
6.3	Population	No./m ²	676	704	587	674	557	616

BDL* - Below Detection Limit

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



Authorized Signatory



● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 ● GPCB approved schedule II auditor ● ISO 14001 ● OHSAS 18001 ● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Baijaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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



POLLUCON LABORATORIES PVT. LTD.

Table-1.27: Sea Sediment Quality Results of CB1 End towards Channel for the period: April, 2019 to Sept, 2019

S. NO.	PARAMETERS	UNIT	CB1 WEST END TOWARDS CHANNEL OF SEA BASIN (N 21° 5'14.67", E 72°37'40.14")					
			APRIL-19	MAY-19	JUNE-19	JULY-19	AUG-19	SEPT-19
1	Organic Matter	%	0.62	0.64	0.5	0.57	0.48	0.64
2	Phosphorus as P	µg/g	570	599	662	601	572	653
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Heavy Metals							
5.1	Aluminum as Al	%	5.24	4.22	4.6	4.95	4.85	4.33
5.2	Total Chromium as Cr ⁺³	µg/g	234	148	159	204	140	169
5.3	Manganese as Mn	µg/g	1210	1124	1162	1098	1116	1078
5.4	Iron as Fe	%	4.96	4.92	5.2	5.2	5.01	5.24
5.5	Nickel as Ni	µg/g	33.4	23	28.4	33.4	29.6	36.3
5.6	Copper as Cu	µg/g	21.6	33.2	30.2	40.2	27.4	30.2
5.7	Zinc as Zn	µg/g	170	212	184	239	192	201
5.8	Lead as Pb	µg/g	1.26	1.48	1.39	1.89	1.17	1.94
5.9	Mercury as Hg	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaete worms Bivalves	Branchyurans Polychaete worms	Polychaete worms Gastropods	Polychaete worms Crustaceans	Polychaete worms Bivalves Amphipods	Polychaete worms Gastropods Crustaceans
6.2	Meiobenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes Copepods	Foraminiferans	Copepods	Nematodes Foraminiferans	Nematodes Copepods	--
6.3	Population	No./m ²	618	735	529	704	559	618

BDL* - Below Detection Limit

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



Authorized Signatory



● FSSAI Approved Lab

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

● GPCB approved schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

Annexure 4 (I)
Results of Soil Quality Monitoring April 2019 to September 2019


POLLUCON LABORATORIES PVT. LTD.
4L. SOIL QUALITY MONITORING: -
Table-1.28A : Soil Quality Testing Results for the period: April, 2019 to Sept, 2019

SR. NO.	PARAMETERS	UNIT	NEAR PORT GATE NO. 2	
			12/06/2019	30/09/2019
1	Type	--	Sandy Loam	Clay
Grain Size Analysis				
2	Gravel	%	1	1
3	Coarse Sand	%	5	5
4	Medium Sand	%	8	40
5	Fine Sand	%	59	44
6	Total Sand	%	73	90
7	Silt + Clay	%	27	10
8	pH (1:5)	--	8.14	8.12
9	Electricity Conductivity	µmho/cm	1398	1210
10	Alkali matter	mg/kg	674	588
11	Cation Exchange Capacity	meq/100 gm	39	32
12	Sodium Absorption Ratio	--	14.8	14.4
13	Organic Matter	mg/kg	0.5	0.38
14	Available Nitrogen	meq/100 gm	0.28	0.34
15	Available Potassium	mg/kg	3.4	3.4
16	Available Phosphorus	mg/kg	0.62	0.72
17	Available Sodium	mg/kg	1.44	1.66
18	Permeability	cm/sec	3.5 X 10 ⁻⁵	3.8 X 10 ⁻⁵

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


Authorized Signatory


● PSSAI Approved Lab

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

● GPCB approved schedule II auditor

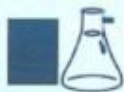
● ISO 14001

● OHSAS 18001

● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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



POLLUCON LABORATORIES PVT. LTD.

Table-1.28B: Soil Quality Testing Results for the period: April, 2019 to Sept, 2019

SR. NO.	PARAMETERS	UNIT	NEAR LT CANTEEN PARKING	
			12/06/2019	30/09/2019
1	Type	--	Sandy Loam	Clay
Grain Size Analysis				
2	Gravel	%	1	1
3	Coarse Sand	%	5	5
4	Medium Sand	%	30	28
5	Fine Sand	%	50	48
6	Total Sand	%	86	82
7	Silt + Clay	%	14	18
8	pH (1:5)	--	8.98	8.48
9	Electricity Conductivity	$\mu\text{mho/cm}$	1430	1188
10	Alkali matter	mg/kg	635	610
11	Cation Exchange Capacity	meq/100 gm	28	20
12	Sodium Absorption Ratio	--	14.2	12.8
13	Organic Matter	mg/kg	0.58	0.42
14	Available Nitrogen	meq/100 gm	0.29	0.2
15	Available Potassium	mg/kg	3.2	2.8
16	Available Phosphorus	mg/kg	0.66	0.58
17	Available Sodium	mg/kg	1.84	1.48
18	Permeability	cm/sec	3.5×10^{-5}	3.0×10^{-5}

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 approved schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

Annexure 5

**COMPLIANCE STATUS OF ENVIRONMENTAL MANAGEMENT PLAN AS PER INTEGRATED EIA
REPORT, SEPTEMBER, 2012**

Annexure-5:
Compliance Status of EMP as mentioned in the Integrated EIA Report, Sep., 2012:

S. No.	EMP Conditions	Compliance Status as on 30.09.2019
I.	AS PER TERRESTRIAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: -	
A	CONSTRUCTION PHASE:-	
1.	Dredged Soils Management Plan: AHPPL has been permitted to dredge about 37 million cubic meter of soil, which shall be reused for backfilling in the project site. The dredged soil samples will be collected and analysed periodically for designated pollutants as per the recommendations of statutory authorities.	Complied. No disposal has been done till date. All the dredging material is being utilized for level raising, reclamation. Complied with. If any excess material generated will be disposed of at the location already approved by the MoEF&CC.
2.	Air Quality Management: Fugitive dust will be generated during construction phase of the project due to handling of wet dredged and 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.	Being Complied Water sprinkling is being done on haulage roads and construction site on regular basis.
3.	Noise Control Programs: 1. Onsite fabrication activities should be undertaken at a designated location, which should be located away from the office buildings and any other working areas. 2. In case noise emissions from the fabrication activities exceed a level of 85 dB (A) at the fence-line of the fabrication yard, temporary noise barrier can be installed. 3. Portable diesel engine generators and diesel engine driven compressors, if any, should be covered with noise enclosures.	Complied Fabrication activities have been done at a designated location away from the office buildings and working areas. Complied Noise level was below 85 dB(A) during the fabrication. Currently no fabrication activities are going on. Complied. In-built noise enclosures are available in portable diesel engine generators and diesel engine driven compressors to reduce the noise level.
4.	Sewage Management Program: 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 Complied Sewage generated from the construction site is being treated in STP and treated water is being used for greenbelt development.
5.	Solid and Hazardous Waste Management Program: The solid waste generated should be segregated and categorized under various rules such as HWM 2008, SWM 2000, the Batteries Rules 2001 including processing of used oil by authorized recyclers should be carried out by the rules and procedures prescribed by CPCB and also meet the requirements of GPCB.	Being Complied All the wastes are being segregate at source and handled as per applicable rules/ guidelines and disposed off through GPCB approved agency.
6.	Construction Phase Storm Water Runoff: It has been recommended to adopt soil stabilization plans and storm water	Complied Separate storm water channels have been developed to discharge the

	sedimentation basins to control the silt before discharging the storm water into sea.	storm water.
7.	Sanitation: The facilities presently available with the nearby villages will continued to be used during construction activities and no major sanitation problem is expected during construction period. The workers at the project site will be provided with proper sanitation arrangement.	Complied Proper sanitation arrangements are available for workers at project site.
B.	OPERATION PHASE: -	
1.	Air Quality Management:	
i.	Cargo-Handling Equipment: 1. Retrofitting the old equipment to meet the vehicular emission standards. 2. All the vehicles and equipment will be certified with PUC norms shall be deployed.	Being Complied All the deployed vehicles and equipment are PUC certified.
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.	Being Complied DG Sets are being 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.
iii.	Fugitive Coal Dust Control Program: The management of AHPPL 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 microns. 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.	Complied. Following control measures are in place and effectively working at port to control fugitive dust: - 1. 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, 3. 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 1200 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. 69.8 ha within the port premises.
2.	Noise Control Program: The following source noise control plans have been suggested: - ➤ Covering of sound intensive components with insulation.	Complied. • All the sound intensive components (DG Set and Compressor) are with acoustic

	<ul style="list-style-type: none"> ➤ 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 exhaust 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. 	<p>enclosures.</p> <ul style="list-style-type: none"> • Green belt development is in progress. • All RTGs and Quay Cranes are electricity operated.
3.	<p>Waste Water Management: Port handling operations would generate wastewater from the following sources: -</p> <ol style="list-style-type: none"> 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, 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: - <p>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.</p> <ul style="list-style-type: none"> ➤ 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 plant. ➤ As far as possible all chemical spills at liquid 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 	<p>Being Complied</p> <ul style="list-style-type: none"> - AHPPL 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. - 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. <p>Complied. Dedicated coal dump pond is being provided to collect the runoff (if any) from coal yard and it is further reused for dust suppression purpose into coal yard.</p> <p>Complied with. No spill has occurred till date. If, spills occurred, spilled material/chemical will be treated into ETP and treated waste water will be reused in greenbelt development / plantation purpose.</p>

	<p>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.</p>	
4.	<p>Storm Water Management Plan:</p> <ul style="list-style-type: none"> ➤ 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 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. 	<p>Complied</p> <p>Garland drain for all bulk storage facilities are provided to avoid silting into the marine eco-system. Storm water from the coal stockpile area is collected into dump ponds to remove the coal sediment.</p> <p>Complied.</p> <p>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.</p>
5.	<p>Solid and Hazardous Waste Management:</p> <ul style="list-style-type: none"> ➤ Solid wastes generated from the port handling facilities consist of packaging waste such as wood, paper/carton, steel scrap etc. ➤ All the hazardous wastes and solid wastes such as Oil containing cargo residue, Chemical containing cargo residue and sludge, contaminated cotton waste, spent exchange resin and ETP Sludge, etc. shall be segregated at source and stored at the earmarked area. ➤ 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 	<p>Complied.</p> <ul style="list-style-type: none"> - Solid wastes generated during port development i.e.: construction & demolition wastes are reused for level rising of low lying area within the port premises. Kitchen/ Food, 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, Steel Scrap, Plastic/Tarpaulin etc. are collected and sold out to recyclers. <p>Complied.</p> <p>All the wastes are segregated at source and stored at a dedicated Hazardous Waste storage shed/yard.</p> <p>Complied.</p> <p>Recyclable wastes is being collected and disposed of through CPCB/GPCB registered recyclers.</p> <p>Complied.</p> <p>No spill has occurred till date.</p> <p>Complied.</p> <p>Recyclable wastes is being collected</p>

	<p>to authorized used oil recycling vendors.</p> <ul style="list-style-type: none"> ➤ 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. 	<p>and disposed of through CPCB/GPCB registered recyclers.</p> <p>Complied. All the wastes are stored at a dedicated hazardous waste storage shed/yard.</p> <p>Being Complied All the wastes are being segregate at source and handled as per applicable rules/ guidelines.</p>
6.	<p>Greenbelt and Plantation:</p> <ul style="list-style-type: none"> ➤ AHPPL 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 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 for this purpose. 	<p>Complied Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 69.80 ha till 30th September 2019.</p> <p>Horticulture budget for FY 2019-20 was Rs. 139.57Lakhs.</p>
7.	<p>Community Development Plan: AHPPL has identified focused areas for community development and implement developmental program. The identified activities under CSR program are as follows: -</p> <ol style="list-style-type: none"> 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. 4. Improvement of rural sanitation by conducting mass awareness campaign, helping villagers for 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 	<p>Complied.</p> <ul style="list-style-type: none"> • 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: 2019-20.

	<p>systems, fish landing shed, solar street lamps.</p> <p>AHPPL has committed to spend about Rs. 8.21 Crore in the first five years of the operation towards various rural upliftment and community development programs and tentative budget has been presented in the below table - Budgeted Expenditure for CSR and Community Development Activities:-</p> <table> <tr> <th>S. No.</th><th>Descriptions</th><th>Budgeted Amount For 1st 5 year Period (Amount rupees in Crore)</th></tr> <tr> <td>1</td><td>Education</td><td>2.29</td></tr> <tr> <td>2</td><td>Community Health</td><td>1.18</td></tr> <tr> <td>3</td><td>Sustainable Livelihood Activities</td><td>1.43</td></tr> <tr> <td>4</td><td>Rural Infrastructure Development</td><td>2.04</td></tr> <tr> <td>5</td><td>Entry Point Activities</td><td>1.27</td></tr> <tr> <td colspan="2">Total</td><td>8.21</td></tr> </table>	S. No.	Descriptions	Budgeted Amount For 1 st 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		8.21	
S. No.	Descriptions	Budgeted Amount For 1 st 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		8.21																					
II.	MARINE ENVIRONMENT MANAGEMENT PLAN:																						
A.	<p>CONSTRUCTION PHASE: -</p> <ul style="list-style-type: none"> ➤ 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 approved dump sites to the north of port area including dredged soil generated through 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 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 discarded materials must be removed from the site and aesthetic quality of the surroundings to be restored, once the construction activities are completed. 	<p>Complied. No disposal has been done till date. All the dredging material is being utilized for level raising, reclamation.</p> <p>Complied If any excess material generated will be disposed of at the location already approved by the MoEF&CC.</p> <p>Noted & Being Complied Monitoring of turbidity level in the sea water is being done and there is no abnormal increase observed.</p> <p>Being Complied. Cleanup of the area is regularly being done.</p>																					
B.	<p>OPERATION PHASE: -</p> <p>The following mitigation measures are recommended during port operation: -</p> <ul style="list-style-type: none"> ➤ Sewage generated from the port operations will be treated in sewage treatment plant and treated water shall be used for horticulture and green belt 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 	<p>Complied. Sewage generated from the port operations is being treated in STP and treated water is being used for horticulture and green belt development.</p> <p>Complied. All the solid waste generated from the port is properly segregated, stored and disposed as per the applicable rules.</p> <p>Being Complied</p>																					

	<p>way that it should not restrict the prevailing tidal ingress in the creek and mangrove habitats in the vicinity to ensure good health condition.</p> <ul style="list-style-type: none"> ➤ Coastline between Suwali Point and Tapti Estuary mouth and around the port area will be periodically 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 evolved and be in place for tier-1 (100t) and tier-2 (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. 	<p>Free flow to the mangrove is not restricted by any of our activity.</p> <p>Complied. Shoreline change study was conducted by 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 AHPPL. The report did not warrant any mitigation measures.</p> <p>Noted and Being Complied. There is no oil spill till date.</p> <p>Complied. Oil Spill Contingency Plan has been prepared and the same was approved/vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014).</p> <p>Noted and Being Complied No effluent is being discharged.</p> <p>Complied. Please refer the Annexure-4D for the Sea Water Quality Monitoring / Analysis Reports for the period April 2019 to September 2019.</p> <p>Noted, AHPPL is not discharging any effluent outside the port premises.</p>
--	--	---

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

ANNEXURE-6

DETAILS OF ENVIRONMENTAL MANAGEMENT CELL

PRANAV CHOUDHARY
CEO - AHPPL



RUPESH JAMBUDI
Head - HSEF
(DIS & Diploma In Civil)



VIRALKUMAR PATEL
HOS - Health, Safety & Fire
Senior Manager - HSE
(BE - Mech.)

Nandan Kumar
Dy. Manager - HSE
(M.Sc Environmental Science)



Dhruvit Pithva
STP & ETP - Chemist / Supervisor



STP & ETP - Operators & Helpers
(08Nos.)

JAYDIPSINH GOHIL
Incharge - Safety (LT, DC) &
Health
Deputy Manager
(DIS, B.Sc.)

CHETAN PATEL
Incharge - Safety (ES, CT, CFS)
Deputy Manager
(PGDIS & B.Sc.)

DUSHYANT JAVIYA
Incharge - Fire
Deputy Manager
(Dip. In Fire & Safety, BA)

Prateek Smart
Ast. Manager
(PDIS, M.Sc)

ATUL KHAMKAR
Shift Officer-Saf. & Fire
Sr. Officer
(PDIS, M.Sc.)

M. JAVID A.PATHAN
Shift Officer-Saf. & Fire
Sr. Officer
(PGDIS, B.Sc.)

YOGENDRA SOLANKI
Officer - Fire (LT)
Sr. Officer
(SFO, BA)

ANSHUMAN SHARMA
Sr. Officer
(B.E. - Fire & Safety)

Shift Fire
Officers
04Nos.

Fire Crew
76Nos.



HSE - Marshals
14 Nos.

Annexure 7

Details of Environment Budget & Expenditure for FY 2019-20

Annexure 7

Details of Environment Budget & Expenditure for April 2019 to September 2019

Sr No	Activities	Budget (In Lacs)	Expenditure (In Lacs)
1	Salary of Environmental Professionals	17.00	7.20
2	Environmental Study/Audit/Survey/Consultancy Services	21.0	23.8
3	Legal and Statutory Charges	4.00	6.0
4	Environmental Monitoring Services	16.31	6.98
5	Mangrove Afforestation/Plantation and Bio-shielding Pilot Project	4.00	-
6	Hazardous Waste Management	31.23	8.61
7	Horticulture Development –Greenery and Plantation	139.57	59.52
8	O&M of Sewage Treatment Plant and Effluent Treatment Plant	19.66	8.95
9	Environment Day Celebration	2.00	2.00
10	Treatment & Disposal of Bio medical Waste	0.72	0.42
11	Construction of additional Hazardous Waste Area	43	0
12	Miscellaneous Environmental Initiatives	5.31	--
Total		303.80	123.48

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

ANNEXURE-8:

Copy of renewed Public Liability Insurance

ANNEXURE-8:

Copy of renewed Public Liability Insurance

HDFC ERGO General Insurance Company Limited



Public Liability Insurance (Under PLI Act 1991)

SCHEDULE

Policy No: 3133201064763104000

Item 1. Insured	:	Adani Hazira Port Private Limited
Pan Number	:	AAICA0970E
Item 2. Producer	:	Ace Insurance Brokers Private Limited
Item 3. Mailing address of the Insured	:	At & PO Hazira, Choryasi, Surat , Gujarat - 394270.
Item 4. Business	:	Port Operations, Cargo Handling and Stevedoring .
Item 5. Policy Period	:	From 00:01 hours: 01 April 2019 To (Midnight) : 31 March 2020
Item 6. Premium	:	Rs. 25,883.00
Item 7. Premium & Coverage Statement	:	Refer to Page 2
7.1 Premium Computation		
7.2 Insurance Limits & Excess		
Item 8. Clauses, Conditions & Warranties	:	

<u>Form Number</u>	<u>Form Name</u>	<u>Effective Date</u>	<u>Date Issued</u>
PL-02-0032	Policy Schedule	01 April 2019	01 April 2019
PL-02-0031	Insurance Contract	01 April 2019	01 April 2019

Subject otherwise to terms and conditions of Public Liability Insurance Policy.

Signed for and on behalf of HDFC ERGO General Insurance Company Limited, on 01 April 2019

Rargotia

Authorised Signatory

Goods & Service Tax Registration No: 24AABCL5045N1ZE

The contract will be cancelled ab initio in case the consideration under the policy is not realized.

The stamp duty of Rs 0.50/- (Fifty Paise only) paid by Demand Draft, vide Receipt/Challan No. CSD/381/2019/1258/19 Date - 19/Mar/2019 as prescribed in Government Notification Revenue and Forest Department No Mudrank 2017/CR.97/M-1, dated the 09th January 2018

Note: Where the proposal form is not received, information obtained from insured, whether orally or otherwise, is captured in the policy document. Discrepancies, if any, in the information contained in the policy document may be pointed out by an insured within 15 days from the policy issue date after which information contained in the policy document shall be deemed to have been accepted as correct.

ANNEXURE-9:

Copy of renewed PESO Licence

ANNEXURE-9:

Copy of renewed PESO Licence

फॉर्म XV
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)
FORM XV
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारण के लिए अनुमति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुमति सं. (Licence No.) : PIHQ/GJ/15/5294(P270337)

संयुक्त राज्य (फॉर्म नं. 1583294)

M/s. Adani Hazira Ports Pvt Ltd , At & Post Hazira, Taluka: Choriyasi, District: SURAT, State: Gujarat, PIN: 394270 को केवल इससे क्या विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 235900.00 KL आयात करने के लिए और इसका, जहाँ वर्णित और अनुमोदित मात्रा संख्या PIHQ/GJ/15/5294 (P270337) तारीख 29/01/2016 जो कि इससे उपबंध है, में दिखाए गए स्थान पर भंडारण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुमति की अधिकृत शर्तों के अधीन रहते हुए, यह अनुमति अनुमति की जाती है।

Licence is hereby granted to M/s. Adani Hazira Ports Pvt Ltd , At & Post Hazira, Taluka: Choriyasi, District: SURAT, State: Gujarat, PIN: 394270 valid only for the importation and storage of 235900.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No PIHQ/GJ/15/5294(P270337) dated 29/01/2016 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुमति 31st day of December 2019 तक प्रवृत्त रहेगी।
The Licence shall remain in force till the 31st day of December 2019

पेट्रोलियम का विवरण /Description of Petroleum	अनुमत मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग A प्रयुक्त पेट्रोलियम /Petroleum Class A in bulk	235900.00 KL 379900.0000
वर्ग A प्रयुक्त पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग B प्रयुक्त पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग B प्रयुक्त पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग C प्रयुक्त पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग C प्रयुक्त पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	235900.00 KL 379900.00 KL

October 31, 2013

- Amendment dated - 14/11/2013
- Amendment dated - 24/01/2014
- Amendment dated - 03/07/2014
- Amendment dated - 16/09/2014
- Amendment dated - 02/11/2015
- Amendment dated - 11/12/2015

अनुमति परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुमति परिसर जिसकी विन्यास योजना अन्य विवरणों संग्रह अनुमोदित नक्शों में दिखाई गई है Plot No: 148, Hazira Port, Hazira, Taluka: Choriyasi, District: SURAT, State: Gujarat, PIN: 394270 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 108 Above Ground tank(s) for CLASS A, सम्मिलित हैं।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Plot No: 148, Hazira Port, Hazira, Taluka: Choriyasi, District: SURAT, State: Gujarat, PIN: 394270 and consists of 108 Above Ground tank(s) for CLASS A, together with connected facilities.

148

Chief Controller of Explosives, Vadodra

उप मुख्य निस्फोटक नियंत्रक, वडोदरा
UP. CHIEF CONTROLLER OF EXPLOSIVES, VADODRA



	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

ANNEXURE-10:

Copy of renewed Factory Licence

ANNEXURE-10:

Copy of renewed Factory Licence

 Directorate Industrial Safety & Health Gujarat State	
Registration No. 3502/51410/2013 FIN. S19018757A	FORM NO. 4 (Prescribed under Rule 5) License to work a factory
License No. 18757 D.A. 23-Dec-2013	
License is hereby granted to Mr. Capt. Sandeep Mehta + 4 Directors For the premises known as ADANI HAZIRA PORT PVT. LTD - (LIQUID TERMINAL) situated at AT&PO. HAZIRA Ta.: Chorasi Dist.: Surat for use as a factory within the limits specified in the plan approved by the Director Industrial Safety & Health, Gujarat State vide No. 1955 Date 18-Dec-2013 subject to provisions of the Factories Act, 1948 and the Rules made thereunder.	
The license is issued for: <ul style="list-style-type: none"> - Maximum Number of workers to be employed on any day during the Year : ** 500 ** - Maximum installed power in B.H.P. on any day during the year : ** Above 5000 ** 	
The license is valid up to 31st December 2023,	
Fees paid Rs. 198,450.00 Fees due Rs. 198,000.00 Excess Rs. 450.00 Place : Surat Date : 03-Nov-2018	
	Signature valid Digitally signed by TAPAN MANSURKHANI Date: 2018.11.03 11:06:30 Reason: Approval Location: Surat
Deputy Director Industrial Safety and Health Surat	

137937

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

Annexure 11

Details of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved Third Party During period April 2019 to September 2019

Annexure 10

Details of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved Third Party During period April 2019 to September 2019

Detail of Wastes Collection & Disposed Off From Vessels				
SR No.	Date	Vessel Name	Party Name	Quantity (CBM)
1	05.04.2019	TUG. ALLIANZ PALLADIUM	CHITARAKUT TRADING AND IND.	5.CBM
2	17.05.2019	TUG.MV MEGHNA	CHITARAKUT TRADING AND IND.	2.05 CBM
3	17.05.2019	VISHVA JYOTI	CHITARAKUT TRADING AND IND.	3.CBM
4	21.05.2019	MV ELVIA	CHITARAKUT TRADING AND IND.	6.01 CBM
5	16.06.2019	CYPRESS GALAXY	CHITARAKUT TRADING AND IND.	3.61 CBM
6	03.07.2019	MT EVERRICH 3	CHITARAKUT TRADING AND IND.	2.4 CBM
7	11.07.2019	MV.MEGHNA	CHITARAKUT TRADING AND IND.	5.CBM
8	09.08.2019	CAPTAIN MIKE	HARISH A. PANDYA	7. CBM
9	14.08.2019	MV.MEGHNA	CHITARAKUT TRADING AND IND.	4.CBM
10	20.08.2019	MT.YM SATURN	HARISH A. PANDYA	4.CBM
11	17.09.2019	MV.MEGHNA	CHITARAKUT TRADING AND IND.	3.CBM
12	01.10.2019	MV.GIOVANNI BOTTIGLIERI	CHITARAKUT TRADING AND IND.	3.CBM
13	02.10.2019	MT.EVERRICH 1	CHITARAKUT TRADING AND IND.	2.61CBM
14	20.10.2019	MT.CELSIUS MESSINA	CHITARAKUT TRADING AND IND.	3.2 CBM
15	24.10.2019	MV.MEGHNA	CHITARAKUT TRADING AND IND.	3.CBM

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

**Annexure 12
Environment Statement FY 2018-19**



AHPPL/GPCB/2019-20/O

Date: 15.07.2019

GPCB ID: 35352

To

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

Dear Sir,

Sub.: Environmental Statement in Form-V for the financial year ending 31st March, 2019 of **M/s. Adani Hazira Port Pvt. Ltd.**

Ref.: Consolidated consent and authorization wide consent order no. AWH-B7176 dated 17.07.2017

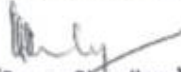
With reference to the above subject and reference, please find enclosed herewith **Environmental Statement in Form-V** prescribed under Rule, 14 of the Environment (Protection) Rules, 1986 for **M/s. Adani Hazira Port Pvt. Ltd., At & PO: Hazira, Taluka: Choryashi, District: Surat (Gujarat)** for the financial year ending **31st March'2019**.

This is for your kind reference and record please.

Thanking You,

Yours faithfully,

For Adani Hazira Port Pvt. Ltd.,


(Pranav Choudhary)
Authorised Signatory



Encl.: - Environmental Statement in Form-V for the Financial Year: 2018-19.

Cc to: - The Regional Officer, Gujarat Pollution Control Board, 338, Belgium Square, Opp. Linear Bus Stand, Ring Road, Surat-364 002 (Gujarat)

**Environment Statement In (Form-V) For The FY: 2018-19 Of
M/s. Adani Hazira Port Pvt. Ltd.**

FORM - V
(See Rule 14)

Environmental Statement for the Financial Year ending 31st March, 2019

PART - A

(i)	Name and address of the Owner/ Occupier of the Industry Operation or Process	: Pranav Choudhary, Chief Executive Officer, M/s. Adani Hazira Port Pvt. Ltd., At & Post: Hazira, Taluka: Choryashi, District: Surat (Gujarat)
(ii)	Industry Category Primary (STC Code) Secondary (STC Code)	: Red - Large Not Applicable Not Applicable
(iii)	Production Capacity	: 36.1 MMTPA (Total Cargo Handling Capacity)
(iv)	Year of Establishment	: 2010
(v)	Date of Last Environment Statement Submitted	: 31st May, 2018

PART - B

Water and Raw Material Consumption

(i) Water Consumption:

Water Consumption Cu. Mtr./Day	
Process	Approx. 1394.071 m ³ /day in Firefighting, Dust Suppression, Sprinkling and Washing Activities etc.
Cooling	
Domestic	Approx. 441.04 m ³ /day in Horticulture & 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*	Total Water Consumption during the FY: 2017-18 is 591308 m ³ in the Dust Suppression, Fire Fighting, Cooling, LT - Washing Activities, Horticulture and Domestic purpose etc. Water consumption is 0.0350 M ³ /MT.	Total Water Consumption during the FY: 2018-19 is 669819 m ³ in the Dust Suppression, Fire Fighting, Cooling, LT - Washing Activities, Horticulture and Domestic purpose etc. Water consumption is 0.0346 M ³ /MT.

* 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.

**Environment Statement In (Form-V) For The FY: 2018-19 Of
M/s. Adani Hazira Port Pvt. Ltd.**

(ii) Raw Material Consumption:

Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
		During the previous Financial Year	During the current Financial 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	<ul style="list-style-type: none"> 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/Nm ³)	DG set emission report is enclosed as Annexure-1.		Nil
Sulphur Dioxide (ppm)			Nil
Nitrogen Oxide (ppm)			Nil

- Unit does not carry out any manufacturing process, as it is service industry (Port) engaged in Handling and Storage of General Dry Cargo, Liquid Cargo and Containers. The source of effluent/ waste water generation is washing activities of liquid tanks, pipelines and floor washing during any spillage and/or leakage of liquid cargo. During the Financial Year: 2018-19 there is no any treated effluent / water discharged to the environment.

There was approx. 60.22 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.

Environment Statement In (Form-V) For The FY: 2018-19 Of
M/s. Adani Hazira Port Pvt. Ltd.

PART - D

Hazardous Wastes

(as specified under Hazardous waste (Management and Handling) Rules, 1989)

Hazardous Wastes	Total Quantity (Kg. or KL)	
	During the Previous Financial Year	During the Current Financial Year
a) From Process	Quantity of Hazardous Waste generated is given below: Cat.-3.3: Approx. 958 Kg. of Used Oil Filters. Cat.-5.1: Approx. 38980 Kg. of Used/Spent Oil/Bilge. Cat.-5.2: Approx. 54807 Kg. of Oily Contaminated Cotton & Foam Pigs. Cat.-21.1: Approx. 3850 Kg. of Empty Paint Drums/ Tins. Cat.-33.1: Approx. 1390 Kg. of Empty Barrels.	Quantity of Hazardous Waste generated is given below: Cat.-3.3: Approx. 1010 Kg. of Used Oil Filters. Cat.-5.1: Approx. 41890 Kg. of Used/Spent Oil/Bilge. Cat.-5.2: Approx. 63830 Kg. of Cily Contaminated Cotton & Foam Pigs. Cat.-21.1: Approx. 2350 Kg. of Empty Paint Drums/ Tins. Cat.-33.1: Approx. 560 Kg. of Empty Barrels.
b) From Pollution Control facilities	Nil	Nil

PART - E

Solid Waste

Solid Waste	Total Quantity (MT/Annum)	
	During the Previous Financial Year	During the Current Financial Year
(a) From Process (Ash)	Nil	Nil
(b) From Pollution Control facilities	Nil	Nil
(C-1) Quantity recycled or reutilized within the unit	11.01 MT (Kitchen & Food Waste Convert in to Manure in OWC)	3.5 MT (Kitchen & Food Waste Convert in to Manure in OWC)
(C-2) Sold	Nil	
(C-3) Disposed	Approx. 114.815 MT (Garbage, Kitchen & Food Wastes)	Approx. 118.815 MT (Garbage, Kitchen & Food Wastes)

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

Environment Statement In (Form-V) For The FY: 2018-19 Of
M/s. Adani Hazira Port Pvt. Ltd.

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 hazardous waste disposed off during the financial year: 2018-19 is approx. 90.849 MT. Out of which approx. 41.20 MT of hazardous waste disposed off at GPCB registered Co-processor at Recycling Solution Pvt. Ltd. (RSPL), Panoli Bharuch and RPCB registered Co-processor Green Gene Enviro Protection and Infrastructure Limited Chhitorgadh, Rajasthan. Approx. 6.379 MT of hazardous waste sent to GPCB registered recycler at J.S Enterprises, Ahmedabad.
- Approx. 53.18 MT Used/Spent Oil/Bilge Water were generated (including opening stock) from various maintenance activities, which were kept in covered hazardous waste storage area. Out of which 43.270 MT Used/Spent Oil/Bilge Water were sold out to GPCB registered recycler/refiner at M/s. Unity Petroleum Co., Ahmedabad.
- Approx. 5.254 MT - Empty Paint Drums/Tins were generated (including opening stock) from various maintenance activities, which were kept in covered hazardous waste storage area. Out of which approx. 4.419 MT - Empty Paint Drums/Tins were sold out to GPCB registered recycler/refiner at M/s. J.S Enterprises, Ahmedabad.
- Approx. 1.591 MT - Empty Barrels were generated (including opening stock) from various maintenance activities, which were kept in covered hazardous waste storage area. Out of which approx. 1.960 MT - Empty Barrels were sold out to GPCB registered recycler/re'liner at M/s. J.S Enterprises, Ahmedabad.
- Approx. 78.03 MT of Contaminated Cotton & Foam Pig Wastes were generated (including opening stock) from various maintenance and operation activities, which were kept in covered hazardous waste storage area. Out of which approx. 41.20 MT of Contaminated Cotton & Foam Pig Wastes were disposed off through GPCB registered Co-processor at Recycling Solution Pvt. Ltd. (RSPL), Panoli, Bharuch and RPCB authorized coprocessor Green Gene Enviro Protection & Infrastructure Limited, Chittorgadh Rajasthan.

**Environment Statement In (Form-V) For The FY: 2018-19 Of
M/s. Adani Hazira Port Pvt. Ltd.**

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 and Effluent Treatment Plant (ETP)** 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. AHPPL has developed mangrove afforestation on an area 200 hectares i.e.: 20 hectares near Village: Kantiyaji, Sea coast area and 180 hectares near Village: Nada-Devla, District: Bharuch (Gujarat).
- M/s. AHPPL has developed a Bio-Shield Pilot Project on an area of 18 hectares at near Village: Tankari Bandar, Taluka: Jambusar, District: Bharuch (Gujarat).
- During the financial year: 2018-19, 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 doing 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 STPs 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 wall is provided around the periphery of Coal Yard.

Environment Statement In (Form-V) For The FY: 2018-19 Of
M/s. Adani Hazira Port Pvt. Ltd.


- Unit has formed dedicated horticulture department & developing green belt within port premises.
- Unit has started use of 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 developed greenbelt area on an area of 69.80 hectare till March, 2019.

PART - I

Any other particulars for improving the quality of environment:

- 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.
- Greenbelt is being developed within the port premises.

Date: 15.07.2019


(Signature of a person carrying out an industry,
operation or process)

Name: **Pranav Choudhary**

Designation: **Chief Executive Officer (CEO)**

Address: **At & Post: Hazira, Taluka: Choryashi,
District: Surat (Gujarat)**

**Environment Statement In (Form-V) For The FY: 2018-19 Of
M/s. Adani Hazira Port Pvt. Ltd.**

ANNEXURE-1

DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -



POLLUCON LABORATORIES PVT. LTD.

4G. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -

Table 1.22: DG Sets Stack Monitoring Results for the period: Oct, 2018 to March, 2019

Sr. No.	Parameters	Unit	DG SET TOYO DENKI - 1		DG SET TOYO DENKI - 2		DG SET TOYO DENKI - 3	
			NOV-18	FEB-19	NOV-18	FEB-19	NOV-18	FEB-19
1	Particulate Matter	mg/m ³	16.62	20.4	19.35	18.75	22.37	12.38
2	Sulphur Dioxide	ppm	7.10	6.64	8.85	8.62	5.80	4.3
3	Oxide of Nitrogen	ppm	36.44	30.54	38.53	26.47	32.68	22.37
4	Carbon Monoxide (CO)	mg/m ³	14.67	7.63	9.82	9.82	10.57	10.31
5	Non Methel Hydro Carbon (NMHC)	mg/m ³	SOL*	SOL*	SOL*	SOL*	SOL*	SOL*

Table 1.23: DG Sets Noise Level Monitoring Results for the period: Oct, 2018 to March, 2019

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 M Distance From The Enclosure	
	Sampling Date	NOV-18	FEB-19
1.	DG SET TOYO DENKI -1	72.4	71.1
2.	DG SET TOYO DENKI -2	71.8	72.9
3.	DG SET TOYO DENKI -3	70.2	69.6



Authorized Signatory

*Official Appointed Lab * Recognized by MOEF, Govt of India (Under No. 12 of Environment and Forests Act, 1986) * Self Recognized as per ISO 15189:2013 * ISO 9001:2015 * ISO 14001:2015 * ISO 45001:2018

"Pollucon House", Plot No.5A, Opp.Balaji Industrial Society, Old Shantirath Sirk M8 Lane, Near Gaytri Farnan Mart, Nanpvan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 8251-2535796, 0261-2635751, 0261-222775, 07018991174, WEB: www.polluconlab.com, E-mail: pollucon@gmail.com, info@polluconlab.com

Environment Statement In (Form-V) For The FY: 2018-19 Of
M/s. Adani Hazira Port Pvt. Ltd.

ANNEXURE - 2

Details of Environment Management Budget For The Financial Year 2017-18: -

Sr No	Activities	Budget (In Lacs)	Expenditure (In Lacs)
1	Salary of Environmental Professionals	15.00	6.50
2	Environmental Study/Audit/Survey/Consultancy Services	21.81	23.8
3	Legal and Statutory Charges	3.0	0.01
4	Environmental Monitoring Services	15.37	14.13
5	Mangrove Afforestation/Plantation and Bio-shielding Pilot Project	12.78	4.83
6	Hazardous Waste Management	12.76	6.76
7	Horticulture Development –Greenery and Plantation	139.65	133.42
8	O&M of Sewage Treatment Plant and Effluent Treatment Plant	41.73	11.54
9	Environment Day Celebration	2.00	2.00
10	Treatment & Disposal of Bio medical Waste	1.07	0.72
11	Miscellaneous Environmental Initiatives	5.50	--
	Others	-	---
A	Construction of Water Pipe line for supply of treated Waste Water from KRIBHCO	-	1120
C	Water Sprinkling for dust Suppression in dry cargo area	-	21
Total		270.69	1344.71

	Adani Hazira Port Private Limited	From : April, 2019 To : September, 2019
--	--	--

Annexure 13

Copy of ISO 9001:2015, 14001:2015, 48001:2018, 50001:2018 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 Quality Management Systems of

Organisation: Adani Hazira Port Private Limited

Address: P.O. Hazira, Tal: Choryashi,
Dist. Surat - 394 270

has been assessed and found conforming to the following requirement

Standard: ISO 9001:2015

Scope: Providing Port Facilities for
Handling and Storage of Bulk,
Liquid and Containerized Cargo

Certificate No.: IRQS/ 190100705

Original Certification Date : 28/10/2013

Current Date of Granting : 23/09/2019

Expiry Date : 26/10/2022



Shashi Nath Mishra
Head IRQS

This approval is subject to continued satisfactory maintenance of the Quality 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. Co71. Condition Overleaf

COA/IRQS/RQA/QMS/Rev 00

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

**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 Private 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/ 190300706

Original Certification Date : 28/10/2013

Current Date of Granting : 23/09/2019

Expiry Date : 26/10/2022



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.

**CERTIFICATE OF APPROVAL**

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

This is to certify that the Occupational Health & Safety Management Systems of

Organisation: Adani Hazira Port Private Limited

Address: P.O. Hazira, Tal: Choryashi,
Dist. Surat - 394 270

has been assessed and found conforming to the following requirement

Standard: ISO 45001:2018

Scope: Providing Port Facilities for
Handling and Storage of Bulk,
Liquid and Containerized Cargo

Certificate No.: IRQS/ 190400707

Original Certification Date : 28/10/2013
(unaccredited)

Current Date of Granting : 23/09/2019

Expiry Date : 26/10/2022



Shashi Nath Mishra
Head IRQS

This approval is subject to continued satisfactory maintenance of the Occupational Health and Safety 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. OHSMS 007. Condition Overleaf : CDA/IRQS/NABCB/OHSMS/Rev 00

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

Certificate

LIBEROASSURANCE



This is to certify that the
Energy Management System of:

Adani Hazira Port Private Limited**adani**Ports and
Logistics

P.O. Hazira, Taluka – Choryashi, District – Surat – 394270, Gujarat, India

Has been assessed and registered under the certification and inspection scheme of
LiberoAssurance for the following international standards:

ISO 50001:2018

The management system is applicable to:

**Providing Port Facilities for Handling & Storage of Bulk, Liquid &
Containerized Cargo**

Issued 21/11/2019 at PIRAEUS, GREECE
(Date of issue) (Place of issue of certificate)

Expiry 03/11/2022
(Expiration date)

For the Issuing Organisation
Efthimios Liberopoulos

This certificate is valid subject to satisfactory
completion of annual audits.

Certificate ID: **IN0517300919501-4**

Please Check Validity of this Certificate at:
<https://liberoassurance.org/verification/>

LiberoAssurance Contact Details8 The Green, Suite A Dover, DE 19901 USA | Email: pr@liberoservices.org | Website: www.liberoassurance.org